

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011122

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011122-017	31-JUL-01	EPRI-108-192	CR	<0.010	ppm	MF	05-SEP-01	180	6020
			CR(D)	<0.010	ppm	MF	05-SEP-01	180	6020
			CU	<0.025	ppm	MF	05-SEP-01	180	6020
			CU(D)	<0.025	ppm	MF	05-SEP-01	14	6020
			F-	1.9	ppm	EH	07-AUG-01	28	340.2
			FE	0.68	ppm	EH	29-AUG-01	180	6010
			FE(D)	0.52	ppm	EH	28-AUG-01	180	6010
			HCO3	279	ppm CaCO3	DC	07-AUG-01	14	310.1
			K	42	ppm	EH	28-AUG-01	180	6010
			MG	44	ppm	EH	28-AUG-01	180	6010
			NA	929	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.36	ppm	JN	31-AUG-01	28	353.2
			PB	<0.003	ppm	MF	05-SEP-01	180	6020
			PB(D)	<0.003	ppm	MF	05-SEP-01	180	6020
			PH	7.5	ppm	DC	07-AUG-01	180	150.1
			SE	0.007	ppm	MF	05-SEP-01	180	6020
			SE(D)	0.010	ppm	MF	05-SEP-01	180	6020
			SO4=	1862	ppm	JN	23-AUG-01	28	9036
			TDS	3556	ppm	BD	06-AUG-01	7	160.1
			TSS	4.3	ppm	BD	06-AUG-01	7	160.2
			ZN	<0.020	ppm	MF	05-SEP-01	180	6020
			ZN(D)	<0.020	ppm	MF	05-SEP-01	180	6020
L011122-018	31-JUL-01	EPRI-108-198	AS	0.005	ppm	MF	05-SEP-01	180	6020
			AS(D)	0.005	ppm	MF	05-SEP-01	180	6020
			CA	57	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	05-SEP-01	180	6020
			CD(D)	<0.005	ppm	MF	05-SEP-01	180	6020
			CL-	92	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01	28	310.1
			COND	988	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	05-SEP-01	180	6020
			CR(D)	<0.010	ppm	MF	05-SEP-01	180	6020
			CU	<0.025	ppm	MF	05-SEP-01	180	6020
			CU(D)	<0.025	ppm	MF	05-SEP-01	14	6020
			F-	0.69	ppm	EH	07-AUG-01	28	340.2
			FE	3.9	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	221	ppm CaCO3	DC	07-AUG-01	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L01122

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L01122-018	31-JUL-01	EPRI-108-198	K	7.9	ppm	EH	28-AUG-01	180	6010
			MG	15.	ppm	EH	28-AUG-01	180	6010
			NA	119.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.16	ppm	JN	27-AUG-01	28	353.2
			PB	0.009	ppm	MF	05-SEP-01	180	6020
			PB(D)	<0.003	ppm	MF	05-SEP-01	180	6020
			PH	8.1	pH	DC	07-AUG-01	150.1	
			SE	<0.005	ppm	MF	05-SEP-01	180	6020
			SE(D)	<0.005	ppm	MF	05-SEP-01	180	6020
			SO4=	191.	ppm	JN	23-AUG-01	28	9036
			TDS	624.	ppm	BD	06-AUG-01	7	160.1
			TSS	254.	ppm	BD	06-AUG-01	160.2	
			ZN	0.024	ppm	MF	05-SEP-01	180	6020
			ZN(D)	<0.020	ppm	MF	05-SEP-01	180	6020
L01122-019	31-JUL-01	EPRI-108-191175	AS	0.93	ppm	MF	05-SEP-01	180	6020
			AS(D)	0.98	ppm	EH	28-AUG-01	180	6010
			CA	220.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	05-SEP-01	180	6020
			CD(D)	<0.005	ppm	MF	05-SEP-01	180	6020
			CL-	543.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01	310.1	
			COND.	5320.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	05-SEP-01	180	6020
			CR(D)	<0.010	ppm	MF	05-SEP-01	180	6020
			CU	<0.025	ppm	MF	05-SEP-01	180	6020
			CU(D)	<0.025	ppm	MF	05-SEP-01	14	6020
			F-	2.9	ppm	MF	07-AUG-01	28	340.2
			FE	1.4	ppm	EH	29-AUG-01	180	6010
			FE(D)	1.3	ppm	EH	28-AUG-01	180	6010
			HCO3	306.	ppm	DC	07-AUG-01	14	310.1
			K	73.	ppm CaCO3	EH	28-AUG-01	180	6010
			MG	68.	ppm	EH	28-AUG-01	180	6010
			NA	897.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.17	ppm	JN	31-AUG-01	28	353.2
			PB	<0.003	ppm	MF	05-SEP-01	180	6020
			PB(D)	<0.003	ppm	MF	05-SEP-01	180	6020
			PH	7.7	pH	DC	07-AUG-01	150.1	
			SE	0.008	ppm	MF	05-SEP-01	180	6020

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Batch No: L011122

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	AUGUST ANALYST	DATE HOLD	ANALYSIS METHOD
L011122-019	31-JUL-01	EPRI-108-191175	SE(D)	0.011	ppm	MF	05-SEP-01	180 6020
			SO4=	1832	ppm	JN	23-AUG-01	28 9036
			TDS	3796	ppm	BD	06-AUG-01	7 160.1
			TSS	5.2	ppm	BD	06-AUG-01	160.2
			ZN	0.025	ppm	MF	05-SEP-01	180 6020
			ZN(D)	<0.020	ppm	MF	05-SEP-01	180 6020
			AS	2.5	ppm	EH	29-AUG-01	180 6010
			AS(D)	2.5	ppm	EH	29-AUG-01	180 6010
			CA	292	ppm	EH	28-AUG-01	180 6010
			CD	<0.005	ppm	MF	05-SEP-01	180 6020
			CD(D)	<0.005	ppm	MF	05-SEP-01	180 6020
			CL-	566	ppm	JN	21-AUG-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01	310.1
			COND.	8260	umhos/cm2	BD	08-AUG-01	28 120.1
L011122-020	31 JUL-01	EPRI-108-191	CR	<0.010	ppm	MF	05-SEP-01	180 6020
			CR(D)	<0.010	ppm	MF	05-SEP-01	180 6020
			CU	<0.025	ppm	MF	05-SEP-01	6020
			CU(D)	<0.025	ppm	MF	05-SEP-01	14 6020
			F-	1.1	ppm	EH	07-AUG-01	28 340.2
			FE	1.5	ppm	EH	29-AUG-01	180 6010
			FE(D)	1.1	ppm	EH	28-AUG-01	180 6010
			HCO3	422	ppm CaCO3	DC	07-AUG-01	14 310.1
			K	79	ppm	EH	28-AUG-01	180 6010
			Mg	77	ppm	EH	28-AUG-01	180 6010
			NA	1002	ppm	JN	27-AUG-01	28 353.2
			NO2/NO3	0.12	ppm	MF	05-SEP-01	180 6020
			PB	<0.003	ppm	MF	05-SEP-01	180 6020
			PB(D)	<0.003	ppm	MF	05-SEP-01	180 6020
			PH	7.5	pH	DC	07-AUG-01	150.1
			SE	0.020	ppm	MF	05-SEP-01	180 6020
			SE(D)	0.024	ppm	MF	05-SEP-01	180 6020
			SO4=	2430	ppm	JN	23-AUG-01	28 9036
			TDS	4563	ppm	BD	06-AUG-01	7 160.1
			TSS	17	ppm	BD	06-AUG-01	160.2
			ZN	0.026	ppm	MF	05-SEP-01	180 6020
			ZN(D)	0.021	ppm	MF	05-SEP-01	180 6020

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							ANALYZED	HOLD	METHOD

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for Totals --- 3010 and 6020.
In some cases dissolved concentration exceeded totals and this was confirmed by repeat analysis.



Approved



Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010852

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010852-1		Matrix Spike	AS	89	%Recovery	MF	05-SEP-01		6020
			AS(D)	100	%Recovery	MF	05-SEP-01		6020
			CD	92	%Recovery	MF	05-SEP-01		6020
			CD(D)	89	%Recovery	MF	05-SEP-01		6020
			CL-	108	%Recovery	JN	21-AUG-01		325.2
			CR	94	%Recovery	MF	05-SEP-01		6020
			CR(D)	92	%Recovery	MF	05-SEP-01		6020
			CU	85	%Recovery	MF	05-SEP-01		6020
			CU(D)	85	%Recovery	MF	05-SEP-01		6020
			F-	102	%Recovery	EH	07-AUG-01		340.2
			FE	110	%Recovery	EH	29-AUG-01		6010
			FE(D)	97	%Recovery	EH	28-AUG-01		6010
			NO2/NO3	91	%Recovery	JN	27-AUG-01		353.2
			PB	99	%Recovery	MF	05-SEP-01		6020
			PB(D)	95	%Recovery	MF	05-SEP-01		6020
			SE	85	%Recovery	MF	05-SEP-01		6020
			SE(D)	96	%Recovery	MF	05-SEP-01		6020
			SO4=	99	%Recovery	JN	23-AUG-01		9036
			ZN	75*	%Recovery	MF	05-SEP-01		6020
			ZN(D)	67*	%Recovery	MF	05-SEP-01		6020
WG010852-2		Prep Blank	AS	<0.005	ppm	MF	05-SEP-01		6020
			AS(D)	<0.005	ppm	MF	05-SEP-01		6020
			CA	<1.0	ppm	EH	28-AUG-01		6010
			CD	<0.005	ppm	MF	05-SEP-01		6020
			CD(D)	<0.005	ppm	MF	05-SEP-01		6020
			CL-	<1.0	ppm	JN	21-AUG-01		325.2
			CO3	<1.0	ppm	DC	07-AUG-01		310.1
			COND.	<5.0	umhos/cm2	BD	08-AUG-01		120.1
			CR	<0.010	ppm	MF	05-SEP-01		6020
			CR(D)	<0.010	ppm	MF	05-SEP-01		6020
			CU	<0.025	ppm	MF	05-SEP-01		6020
			CU(D)	<0.025	ppm	MF	05-SEP-01		6020
			F-	<0.050	ppm	EH	07-AUG-01		340.2
			FE	<0.10	ppm	EH	29-AUG-01		6010
			FE(D)	<0.10	ppm	EH	28-AUG-01		6010
			HCO3	<1.0	ppm	DC	07-AUG-01		310.1
			K	<2.0	ppm	EH	28-AUG-01		6010
			MG	<1.0	ppm	EH	28-AUG-01		6010

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Batch No: WG010852

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD DAYS	METHOD
WG010852-2		Prep Blank	NA	<2.0	ppm	EH	28-AUG-01		6010
			NO2/NO3	<0.050	ppm	JN	24-AUG-01		353.2
			PB	<0.003	ppm	MF	05-SEP-01		6020
			PB (D)	<0.003	ppm	MF	05-SEP-01		6020
			SE	<0.005	ppm	MF	05-SEP-01		6020
			SE (D)	<0.005	ppm	MF	05-SEP-01		6020
			SO4	<2.0	ppm	JN	23 AUG 01		9036
			TDS	<10	ppm	BD	06-AUG-01		160.1
			TSS	<1.0	ppm	BD	06-AUG-01		160.2
			ZN	<0.020	ppm	MF	05-SEP-01		6020
			ZN (D)	<0.020	ppm	MF	05-SEP-01		6020
			AS	94	\$Recovery	MF	05-SEP-01		6020
			AS (D)	108	\$Recovery	MF	05-SEP-01		6020
			CA	90	\$Recovery	EH	28-AUG-01		6010
			CD	95	\$Recovery	MF	05-SEP-01		6020
			CD (D)	108	\$Recovery	MF	05-SEP-01		6020
			CL-	88	\$Recovery	JN	21-AUG-01		325.2
WG010852-3		Lab Control Sample	COND.	100	\$Recovery	BD	08-AUG-01		120.1
			CR	97	\$Recovery	MF	05-SEP-01		6020
			CR (D)	101	\$Recovery	MF	05-SEP-01		6020
			CU	97	\$Recovery	MF	05-SEP-01		6020
			CU (D)	100	\$Recovery	MF	05-SEP-01		6020
			F-	98	\$Recovery	MF	05-SEP-01		6020
			FE	98	\$Recovery	EH	07-AUG-01		340.2
			FE (D)	94	\$Recovery	EH	29-AUG-01		6010
			HCO3	103	\$Recovery	EH	28-AUG-01		6010
			K	95	\$Recovery	DC	07-AUG-01		310.1
			MG	91	\$Recovery	EH	28-AUG-01		6010
			NA	101	\$Recovery	EH	28-AUG-01		6010
			NO2/NO3	92	\$Recovery	EH	28-AUG-01		6010
			PB	102	\$Recovery	EH	28-AUG-01		6010
			PB (D)	110	\$Recovery	EH	28-AUG-01		6010
			SE	89	\$Recovery	JN	24-AUG-01		353.2
			SE (D)	120	\$Recovery	MF	05-SEP-01		6020
			SO4=	91	\$Recovery	MF	05-SEP-01		6020
			TDS	100	\$Recovery	MF	05-SEP-01		6020
			TSS	101	\$Recovery	MF	05-SEP-01		6020
			ZN	90	\$Recovery	JN	23-AUG-01		9036
					\$Recovery	BD	06-AUG-01		160.1
					\$Recovery	BD	06-AUG-01		160.2
					\$Recovery	MF	05-SEP-01		6020
					\$Recovery	MF	05-SEP-01		6020
					\$Recovery	MF	05-SEP-01		6020
					\$Recovery	MF	05-SEP-01		6020
					\$Recovery	MF	05-SEP-01		6020
					\$Recovery	MF	05-SEP-01		6020
					\$Recovery	MF	05-SEP-01		6020

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Batch No: WG010852

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010852-3		Lab Control Sample							
WG010852-4		Duplicate	ZN(D)	120	% Recovery	MF	05-SEP-01		6020
			CL-	2.8	% RPD	JN	21-AUG-01		325.2
			CO3	<1	% RPD	DC	07-AUG-01		310.1
			COND.	<1	% RPD	BD	08-AUG-01		120.1
			F-	<1	% RPD	EH	07-AUG-01		340.2
			HCO3	<1	% RPD	DC	07-AUG-01		310.1
			NO2/NO3	2.8	% RPD	JN	31-AUG-01		353.2
			SO4=	5.7	% RPD	JN	23-AUG-01		9036
			TDS	<1	% RPD	BD	06-AUG-01		160.1
			TSS	<1	% RPD	BD	06-AUG-01		160.2
WG010852-5		Matrix Spike Duplicate	AS	1.1	% RPD	MF	05-SEP-01		6020
			AS(D)	<1	% RPD	MF	05-SEP-01		6020
			CA	<1	% RPD	EH	28-AUG-01		6010
			CD	1.1	% RPD	MF	05-SEP-01		6020
			CD(D)	<1	% RPD	MF	05-SEP-01		6020
			CR	<1	% RPD	MF	05-SEP-01		6020
			CR(D)	<1	% RPD	MF	05-SEP-01		6020
			CU	<1	% RPD	MF	05-SEP-01		6020
			CU(D)	<1	% RPD	MF	05-SEP-01		6020
			FE	<1	% RPD	EH	29-AUG-01		6010
			FE(D)	<1	% RPD	EH	28-AUG-01		6010
			K	3.1	% RPD	EH	28-AUG-01		6010
			MG	<1	% RPD	EH	28-AUG-01		6010
			NA	<1	% RPD	EH	28-AUG-01		6010
			PB	1.5	% RPD	MF	05-SEP-01		6020
			PB(D)	<1	% RPD	MF	05-SEP-01		6020
			SE	<1	% RPD	MF	05-SEP-01		6020
			SE(D)	<1	% RPD	MF	05-SEP-01		6020
			ZN	1.2	% RPD	MF	05-SEP-01		6020
			ZN(D)	3.0	% RPD	MF	05-SEP-01		6020
WG010852-6		Reporting Limit	AS	0.005	ppm				6020
			AS(D)	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CD(D)	0.005	ppm				6020
			CL-	1.0	ppm				325.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010852-6		Reporting Limit	CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020
			CR(D)	0.010	ppm				6020
			CU	0.025	ppm				6020
			CU(D)	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			FE(D)	0.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			Mg	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	0.050	ppm				353.2
			PB	0.003	ppm				6020
			PB(D)	0.003	ppm				6020
			SE	0.005	ppm				6020
			SE(D)	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020
			ZN(D)	0.020	ppm				6020
WG010852-7		Matrix Spike	AS	90	%Recovery	EH	29-AUG-01		6010
			AS(D)	97	%Recovery	EH	29-AUG-01		6010
WG010852-8		Prep Blank	AS	<0.020	ppm	EH	29-AUG-01		6010
			AS(D)	<0.020	ppm	EH	29-AUG-01		6010
WG010852-9		Lab Control Sample	AS	88	%Recovery	EH	29-AUG-01		6010
			AS(D)	95	%Recovery	EH	29-AUG-01		6010
WG010852-11		Matrix Spike Duplicate	AS	<1	% RPD	EH	29-AUG-01		6010
			AS(D)	1.0	% RPD	EH	29-AUG-01		6010

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* = low spike recovery due to matrix interference.

[Signature]
Approved

[Signature]
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-001	30-JUL-01	EPRI-0108-109	AS	0.1039	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.010	ppm	MF	10-SEP-01	180	6020
			CA	58.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	699.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	02-AUG-01		310.1
			COND.	4860.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	6020	
			F-	5.1	ppm	MF	31-AUG-01	14	6020
			FE	2.4	ppm	EH	02-AUG-01	28	340.2
			FE(D)	0.20	ppm	EH	29-AUG-01	180	6010
			HCO3	1480.	ppm	EH	28-AUG-01	180	6010
			K	186.	ppm	DC	02-AUG-01	14	310.1
			MG	42.	ppm	EH	28-AUG-01	180	6010
			NA	968.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.13	ppm	EH	28-AUG-01	180	6010
			PB	0.006	ppm	JN	31-AUG-01	28	353.2
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.0	pH	MF	10-SEP-01	180	6020
			SE	0.010	ppm	DC	02-AUG-01		150.1
			SE(D)	0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	131.	ppm	MF	31-AUG-01	180	6020
			TDS	2769.	ppm	JN	23-AUG-01	28	9036
			TSS	135.	ppm	BD	01-AUG-01	7	160.1
			ZN	0.38	ppm	EH	01-AUG-01		160.2
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
					ppm	MF	10-SEP-01	180	6020
L011102-002	30-JUL-01	EPRI-0108-112	AS	0.042	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.022	ppm	MF	31-AUG-01	180	6020
			CA	112.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	696.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	02-AUG-01		310.1
			COND.	4430.	umhos/cm2	EH	03-AUG-01	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-002	30-JUL-01	EPRI-0108-112	CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR (D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	2.5	ppm	EH	02-AUG-01	28	340.2
			FE	0.27	ppm	EH	29-AUG-01	180	6010
			FE (D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	1120.	ppm	DC	02-AUG-01	14	310.1
			K	26.	ppm	EH	28-AUG-01	180	6010
			MG	34.	ppm	EH	28-AUG-01	180	6010
			NA	867.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.24	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB (D)	0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.6	ppm	DC	02-AUG-01	180	150.1
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			SE (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4	220.	ppm	JN	23-AUG-01	28	9036
			TDS	2699.	ppm	BD	01-AUG-01	7	160.1
			TSS	13.	ppm	EH	01-AUG-01	180	160.2
			ZN	<0.020	ppm	MF	31-AUG-01	180	6020
			ZN (D)	<0.020	ppm	MF	31-AUG-01	180	6020
			AS	7.4	ppm	EH	29-AUG-01	180	6010
			AS (D)	2.8	ppm	MF	31-AUG-01	180	6020
			CA	68.1	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	741.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	02-AUG-01	310.1	310.1
			COND.	5550.	umhos/cm2	EH	03-AUG-01	28	120.1
L011102-003	30-JUL-01	EPRI-0108-113	CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.010	ppm	MF	31-AUG-01	180	6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	180	6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	1.8	ppm	EH	02-AUG-01	28	340.2
			FE	1.3	ppm	EH	29-AUG-01	180	6010
			FE (D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	1490.	ppm	DC	02-AUG-01	14	310.1
			CaCO3		ppm	CaCO3			
					ppm				

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Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-003	30-JUL-01	EPRI-0108-113	K	170.	ppm	EH	28-AUG-01	180	6010
			MG	26.	ppm	EH	28-AUG-01	180	6010
			NA	1015.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.23	ppm	JN	24-AUG-01	28	353.2
			PB	0.007	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.7	pH	DC	02-AUG-01	150.1	
			SE	0.16	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.11	ppm	MF	31-AUG-01	180	6020
			SO4=	125.	ppm	JN	23-AUG-01	28	9036
			TDS	3243.	ppm	BD	01-AUG-01	7	160.1
			TSS	242.	ppm	EH	01-AUG-01	160.2	
			ZN	0.027	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
			AS	0.38	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.39	ppm	MF	31-AUG-01	180	6020
			CA	218.	ppm	EH	28-AUG-01	180	6010
			CD	0.41	ppm	MF	31-AUG-01	180	6020
			CD(D)	0.43	ppm	MF	31-AUG-01	180	6020
			CL-	568.	ppm	JN	20-AUG-01	28	325.2
L011102-004	26-JUL-01	EPRI-0108-114	CO3	<1.0	ppm	DC	02-AUG-01	310.1	
			COND.	5090.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	1.8	ppm	MF	02-AUG-01	28	340.2
			FE	0.50	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	245.	ppm	DC	02-AUG-01	14	310.1
			K	72.	ppm	EH	28-AUG-01	180	6010
			MG	71.	ppm	EH	28-AUG-01	180	6010
			NA	894.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	35.	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.1	pH	DC	02-AUG-01	150.1	
			SE	1.1	ppm	MF	31-AUG-01	180	6020

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El Paso

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Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	
							ANALYZED	HOLD
L011102-004	26-JUL-01	EPRI-0108-114	SE(D)	1.3	ppm	MF	31-AUG-01	180
			SO4=	1740.	ppm	JN	23-AUG-01	28
			TDS	3740.	ppm	BD	01-AUG-01	7
			TSS	5.1	ppm	EH	01-AUG-01	160.1
			ZN	1.6	ppm	EH	29-AUG-01	180
			ZN(D)	1.4	ppm	MF	31-AUG-01	180
			AS	11.	ppm	EH	29-AUG-01	180
			AS(D)	21.	ppm	EH	28-AUG-01	180
			CA	505.	ppm	EH	28-AUG-01	180
			CD	0.15	ppm	MF	31-AUG-01	180
			CD(D)	0.035	ppm	MF	31-AUG-01	180
			CL-	847.	ppm	JN	20-AUG-01	28
			CO3	<1.0	ppm CaCO3	DC	02-AUG-01	310.1
			COND.	10180.	umhos/cm2	EH	03-AUG-01	28
L011102-005	26-JUL-01	EPRI-0108-118	CR	<0.010	ppm	MF	31-AUG-01	180
			CR(D)	<0.010	ppm	MF	31-AUG-01	180
			CU	0.11	ppm	MF	31-AUG-01	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14
			F-	7.3	ppm	EH	02-AUG-01	28
			FE	1.7	ppm	EH	29-AUG-01	180
			FE(D)	0.83	ppm	EH	28-AUG-01	180
			HCO3	813.	ppm CaCO3	DC	02-AUG-01	14
			K	286.	ppm	EH	28-AUG-01	180
			MG	143.	ppm	EH	28-AUG-01	180
			NA	1622.	ppm	EH	28-AUG-01	180
			NO2/NO3	19.	ppm	JN	24-AUG-01	28
			PB	<0.003	ppm	MF	31-AUG-01	180
			PB(D)	<0.003	ppm	MF	31-AUG-01	180
			PH	7.3	PH	DC	02-AUG-01	150.1
			SE	0.14	ppm	MF	31-AUG-01	180
			SE(D)	0.14	ppm	MF	31-AUG-01	180
			SO4=	4310.	ppm	JN	23-AUG-01	28
			TDS	8050.	ppm	BD	01-AUG-01	7
			TSS	8.3	ppm	EH	01-AUG-01	160.1
			ZN	16.	ppm	EH	29-AUG-01	180
			ZN(D)	10.	ppm	EH	28-AUG-01	180

APPENDIX G

PHASE III SOIL-SEDIMENTS ANALYTICAL REPORTS

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-006	30-JUL-01	EPRI-0108-121	AS	27.	ppm	EH	29-AUG-01	180	6010
			AS(D)	30.	ppm	EH	28-AUG-01	180	6010
			CA	221.	ppm	EH	28-AUG-01	180	6010
			CD	0.22	ppm	MF	31-AUG-01	180	6020
			CD(D)	0.19	ppm	MF	31-AUG-01	180	6020
			CL-	451.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-AUG-01		310.1
			COND.	6950.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	0.026	ppm	MF	31-AUG-01		6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	4.6	ppm	EH	02-AUG-01	28	340.2
			FE	10.	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	471.	ppm CaCO3	DC	02-AUG-01	14	310.1
			K	62.	ppm	EH	28-AUG-01	180	6010
			MG	86.	ppm	EH	28-AUG-01	180	6010
			NA	1205.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	7.3	ppm	JN	24-AUG-01	28	353.2
			PB	0.008	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.7	PH	DC	02-AUG-01		150.1
			SE	0.52	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.64	ppm	MF	31-AUG-01	180	6020
			SO4=	3135.	ppm	JN	23-AUG-01	28	9036
			TDS	4942.	ppm	BD	01-AUG-01	7	160.1
			TSS	768	ppm	EH	01-AUG-01		160.2
			ZN	0.95	ppm	EH	29-AUG-01	180	6010
			ZN(D)	0.61	ppm	MF	31-AUG-01	180	6020
L011102-007	26-JUL-01	EPRI-0108-122	AS	26.	ppm	EH	29-AUG-01	180	6010
			AS(D)	22.	ppm	EH	28-AUG-01	180	6010
			CA	447.	ppm	EH	28-AUG-01	180	6010
			CD	0.45	ppm	MF	31-AUG-01	180	6020
			CD(D)	0.34	ppm	MF	31-AUG-01	180	6020
			CL-	789.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-AUG-01		310.1
			COND.	9330.	umhos/cm2	EH	03-AUG-01	28	120.1

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L011102-007	26-JUL-01	EPRI-0108-122	CR	0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	0.37	ppm	MF	31-AUG-01	14	6020
			CU(D)	0.13	ppm	MF	02-AUG-01	28	340.2
			F-	9.4	ppm	EH	29 AUG 01	180	6010
			FE	7.8	ppm	EH	28-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	02-AUG-01	14	310.1
			HCO3	932.	ppm CaCO3	DC	28-AUG-01	180	6010
			K	278.	ppm	EH	28-AUG-01	180	6010
			MG	209.	ppm	EH	28-AUG-01	180	6010
			NA	1485.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	12.	ppm	JN	24-AUG-01	28	353.2
			PB	0.013	ppm	MF	31-AUG-01	180	6020
			PH	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.3	ppm	DC	02-AUG-01	14	150.1
			SE	0.16	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.16	ppm	MF	31-AUG-01	180	6020
			SO4=	3757.	ppm	JN	23-AUG-01	28	9036
			TDS	7315.	ppm	BD	01-AUG-01	7	160.1
			TSS	34.	ppm	EH	01-AUG-01	160.2	
			ZN	7.9	ppm	EH	29-AUG-01	180	6010
			ZN(D)	6.9	ppm	EH	28-AUG-01	180	6010
L011102-008	26-JUL-01	EPRI-0108-123	AS	92.	ppm	EH	30-AUG-01	180	6010
			AS(D)	43.	ppm	EH	28-AUG-01	180	6010
			CA	557.	ppm	EH	28-AUG-01	180	6010
			CD	8.7	ppm	MF	10-SEP-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	973.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-AUG-01	14	310.1
			COND.	9350.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	0.090	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	0.28	ppm	MF	31-AUG-01	14	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	12.	ppm	MF	02-AUG-01	28	340.2
			FE	292.	ppm	EH	30-AUG-01	180	6010
			FE(D)	16.	ppm	EH	28-AUG-01	180	6010
			HCO3	2050.	ppm CaCO3	DC	02-AUG-01	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L01102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-008	26-JUL-01	EPRI-0108-123	K	162.	ppm	EH	28-AUG-01	180	6010
			MG	230.	ppm	EH	28-AUG-01	180	6010
			NA	1390.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.23	ppm	JN	31-AUG-01	28	353.2
			PB	1.1	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.0	pH	DC	02-AUG-01	150.1	
			SE	0.43	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.027	ppm	MF	31-AUG-01	180	6020
			SO4=	4186.	ppm	JN	23-AUG-01	28	9036
			TDS	7422.	ppm	BD	01-AUG-01	7	160.1
			TSS	8010.	ppm	EH	01-AUG-01	160.2	
			ZN	923.	ppm	EH	30-AUG-01	180	6010
			ZN(D)	4.4	ppm	EH	28-AUG-01	180	6010
			AS	3.0	ppm	EH	29-AUG-01	180	6010
			AS(D)	3.0	ppm	EH	28-AUG-01	180	6010
			CA	114.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	417.	ppm	JN	20-AUG-01	28	325.2
L011102-009	26-JUL-01	EPR241-0108-124	CO3	<1.0	ppm	DC	02-AUG-01	310.1	
			COND.	3750.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	0.020	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	0.038	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	180	6020
			F-	3.3	ppm	MF	31-AUG-01	14	6020
			FE	60.	ppm	EH	02-AUG-01	28	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	1135.	ppm	EH	28-AUG-01	180	6010
			K	19.	ppm	DC	02-AUG-01	14	310.1
			MG	31.	ppm	EH	28-AUG-01	180	6010
			NA	732.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	1.0	ppm	JN	24-AUG-01	28	353.2
			PB	0.038	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.8	pH	DC	02-AUG-01	150.1	
			SE	0.027	ppm	MF	31-AUG-01	180	6020

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Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS METHOD
L011102-009	26-JUL-01	EPR241-0108-124	SE(D)	0.022	ppm	MF	10-SEP-01	180 6020
			SO4=	1229.	ppm	JN	23-AUG-01	28 9036
			TDS	2584.	ppm	BD	01-AUG-01	7 160.1
			TSS	2782.	ppm	EH	01-AUG-01	160.2
			ZN	0.089	ppm	MF	31-AUG-01	180 6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180 6020
			AS	2.0	ppm	EH	29-AUG-01	180 6010
			AS(D)	2.1	ppm	EH	28-AUG-01	180 6010
			CA	160.	ppm	EH	28-AUG-01	180 6010
			CD	<0.005	ppm	MF	31-AUG-01	180 6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180 6020
			CL-	451.	ppm	JN	20-AUG-01	28 325.2
L011102-010	27-JUL-01	EPR1-0108-127	CO3	<1.0	ppm CaCO3	DC	02-AUG-01	310.1
			COND.	4650.	umhos/cm2	EH	03-AUG-01	28 120.1
			CR	0.050	ppm	MF	31-AUG-01	180 6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180 6020
			CU	<0.025	ppm	MF	31-AUG-01	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	6020
			F-	4.7	ppm	MF	31-AUG-01	14 6020
			FE	0.67	ppm	EH	02-AUG-01	28 340.2
			FE(D)	0.18	ppm	EH	29-AUG-01	180 6010
			HCO3	377.	ppm CaCO3	EH	28-AUG-01	180 6010
			K	87.	ppm	DC	02-AUG-01	14 310.1
			MG	82.	ppm	EH	28-AUG-01	180 6010
			NA	794.	ppm	EH	28-AUG-01	180 6010
			NO2/NO3	3.7	ppm	JN	24-AUG-01	28 353.2
			PB	<0.003	ppm	MF	31-AUG-01	180 6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180 6020
			PH	7.7	pH	DC	02-AUG-01	150.1
			SE	0.21	ppm	MF	31-AUG-01	180 6020
			SE(D)	0.24	ppm	MF	31-AUG-01	180 6020
			SO4=	1607.	ppm	JN	23-AUG-01	28 9036
			TDS	3412.	ppm	BD	01-AUG-01	7 160.1
			TSS	3.1	ppm	EH	01-AUG-01	160.2
			ZN	0.064	ppm	MF	31-AUG-01	180 6020
			ZN(D)	0.058	ppm	MF	31-AUG-01	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

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Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PREP	
L011102-011	27-JUL-01	EPRI-0108-128	AS	0.025	ppm	MF	31-AUG-01	180	6020
			AS (D)	0.022	ppm	MF	31-AUG-01	180	6020
			CA	540.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	1006.	ppm	MF	31-AUG-01	180	6020
			CO3	<1.0	ppm	JN	20-AUG-01	28	325.2
			COND.	8120.	ppm CaCO3	DC	02-AUG-01	310.1	310.1
			CR	0.63	umhos/cm2	EH	03-AUG-01	28	120.1
			CR (D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	1.6	ppm	EH	02-AUG-01	28	340.2
			FE	3.0	ppm	EH	29-AUG-01	180	6010
			FE (D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	271.	ppm CaCO3	DC	02-AUG-01	14	310.1
			K	14.	ppm	EH	28-AUG-01	180	6010
			MG	206.	ppm	EH	28-AUG-01	180	6010
			NA	1275.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	25.	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB (D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.6	PH	DC	02-AUG-01	150.1	150.1
			SE	0.21	ppm	MF	31-AUG-01	180	6020
			SE (D)	0.20	ppm	MF	31-AUG-01	180	6020
			SO4=	3287.	ppm	JN	23-AUG-01	28	9036
			TDS	6921.	ppm	BD	01-AUG-01	7	160.1
			TSS	10.	ppm	EH	01-AUG-01	160.2	160.2
			ZN	0.071	ppm	MF	31-AUG-01	180	6020
			ZN (D)	0.063	ppm	MF	31-AUG-01	180	6020
L011102-012	27-JUL-01	EPRI-0108-130	AS	1.2	ppm	MF	31-AUG-01	180	6020
			AS (D)	1.1	ppm	MF	31-AUG-01	180	6020
			CA	166.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	429.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-AUG-01	310.1	310.1
			COND.	4220.	umhos/cm2	EH	03-AUG-01	28	120.1

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El Paso

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Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-012	27-JUL-01	EPRI-0108-130	CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	3.0	ppm	EH	02-AUG-01	28	340.2
			FE	0.24	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	352.	ppm	DC	02-AUG-01	14	310.1
			K	56.	ppm	CaCO3	28-AUG-01	180	6010
			MG	68.	ppm	EH	28-AUG-01	180	6010
			NA	716.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	3.2	ppm	EH	28-AUG-01	180	6010
			PB	<0.003	ppm	EH	28-AUG-01	180	6010
			PB(D)	<0.003	ppm	EH	28-AUG-01	180	6010
			PH	7.9	ppm	EH	28-AUG-01	180	6010
			SE	0.24	ppm	EH	28-AUG-01	180	6010
			SE(D)	0.26	ppm	JN	24-AUG-01	28	353.2
			SO4=	1482.	ppm	MF	31-AUG-01	180	6020
			TDS	3043.	ppm	MF	31-AUG-01	180	6020
			TSS	3.1	ppm	DC	02-AUG-01	150.1	
			ZN	0.079	ppm	MF	31-AUG-01	180	6020
			ZN(D)	0.073	ppm	MF	31-AUG-01	180	6020
L011102-013	27-JUL-01	EPRI-0108-131	AS	0.047	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.041	ppm	MF	31-AUG-01	180	6020
			CA	243.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	793.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm	CaCO3	02-AUG-01	310.1	
			COND.	7130.	umhos/cm2	DC	03-AUG-01	28	120.1
			CR	<0.010	ppm	EH	03-AUG-01	28	120.1
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	180	6020
			F-	1.8	ppm	MF	31-AUG-01	14	6020
			FE	<0.10	ppm	EH	02-AUG-01	28	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	549.	ppm	EH	28-AUG-01	180	6010
					ppm	CaCO3	02-AUG-01	14	310.1
					ppm	CaCO3	02-AUG-01	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-013	27-JUL-01	EPRI-0108-131	K	34.	ppm	EH	28-AUG-01	180	6010
			MG	154.	ppm	EH	28-AUG-01	180	6010
			NA	1333.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.089	ppm	JN	31-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.7	pH	DC	02-AUG-01	150.1	
			SE	0.18	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.18	ppm	MF	31-AUG-01	180	6020
			SO4=	2611.	ppm	JN	23-AUG-01	28	9036
			TDS	5328.	ppm	BD	01-AUG-01	7	160.1
			TSS	1.8	ppm	EH	01-AUG-01	160.2	
			ZN	0.030	ppm	MF	31-AUG-01	180	6020
			ZN(D)	0.032	ppm	MF	31-AUG-01	180	6020
			AS	0.11	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.10	ppm	MF	31-AUG-01	180	6020
			CA	382.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	727.	ppm	JN	20-AUG-01	28	325.2
L011102-014	27-JUL-01	EPRI-0108-132	CO3	<1.0	ppm CaCO3	DC	02-AUG-01	310.1	
			COND.	9010.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	1.8	ppm	MF	31-AUG-01	14	6020
			FE	<0.10	ppm	EH	02-AUG-01	28	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	214.	ppm	EH	28-AUG-01	180	6010
			K	21.	ppm CaCO3	DC	02-AUG-01	14	310.1
			MG	124.	ppm	EH	28-AUG-01	180	6010
			NA	1859.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	67.	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.0	pH	DC	02-AUG-01	180	150.1
			SE	0.46	ppm	MF	31-AUG-01	180	6020

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Water and Solid Waste (Project 3220)

Batch No: L01102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L01102-014	27-JUL-01	EPRI-0108-132	SE(D)	0.50	ppm	MF	31-AUG-01	180	6020
			SO4=	3660.	ppm	JN	23-AUG-01	28	9036
			TDS	7352.	ppm	BD	01-AUG-01	7	160.1
			TSS	2.2	ppm	EH	01-AUG-01		160.2
			ZN	0.049	ppm	MF	31-AUG-01	180	6020
			ZN(D)	0.043	ppm	MF	31-AUG-01	180	6020
			AS	8.4	ppm	EH	29-AUG-01	180	6010
			AS(D)	8.6	ppm	EH	28-AUG-01	180	6010
			CA	489.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	554.	ppm	JN	20-AUG-01	28	325.2
L01102-015	27-JUL-01	EPRI-0108-134	CO3	<1.0	ppm CaCO3	DC	02-AUG-01		310.1
			COND.	7380.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	0.029	ppm	MF	31-AUG-01	180	6020
			CU(D)	0.026	ppm	MF	31-AUG-01	14	6020
			F-	3.2	ppm	MF	02-AUG-01	28	340.2
			FE	<0.10	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	393.	ppm	DC	02-AUG-01	14	310.1
			K	44.	ppm	EH	28-AUG-01	180	6010
			MG	126.	ppm	EH	28-AUG-01	180	6010
			NA	1179.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	33.	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.8	pH	DC	02-AUG-01		150.1
			SE	0.30	ppm	ME	31-AUG-01	180	6020
			SE(D)	0.31	ppm	MF	31-AUG-01	180	6020
			SO4=	3236.	ppm	JN	23-AUG-01	28	9036
			TDS	6231.	ppm	BD	01-AUG-01	7	160.1
			TSS	2.2	ppm	EH	01-AUG-01		160.2
			ZN	0.051	ppm	MF	31-AUG-01	180	6020
			ZN(D)	0.042	ppm	MF	31-AUG-01	180	6020

ASARCO CHEMICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD DAYS METHOD
L011102-016	25-JUL-01	EPRI-0108-144	AS	3.5	ppm	EH	29-AUG-01	180 6010
			AS(D)	3.4	ppm	MF	31-AUG-01	180 6020
			CA	61.	ppm	EH	28-AUG-01	180 6010
			CD	<0.005	ppm	MF	31-AUG-01	180 6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180 6020
			CL-	295.	ppm	JN	20-AUG-01	28 325.2
			CO3	<1.0	ppm	DC	02-AUG-01	310.1
			COND.	3470.	umhos/cm2	EH	03-AUG-01	28 120.1
			CR	<0.010	ppm	MF	31-AUG-01	180 6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180 6020
			CU	<0.025	ppm	MF	31-AUG-01	180 6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	180 6020
			F-	3.1	ppm	MF	31-AUG-01	14 6020
			FE	0.52	ppm	EH	02-AUG-01	28 340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180 6010
			HCO3	310.	ppm	EH	28-AUG-01	180 6010
			K	53.	ppm	DC	02-AUG-01	14 310.1
			MG	32.	ppm	EH	28-AUG-01	180 6010
			NA	621.	ppm	EH	28-AUG-01	180 6010
			NO2/NO3	10.	ppm	JN	24-AUG-01	28 353.2
			PB	0.007	ppm	MF	31-AUG-01	180 6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180 6020
			PH	8.1	PH	DC	02-AUG-01	150.1
			SE	0.23	ppm	MF	31-AUG-01	180 6020
			SE(D)	0.27	ppm	MF	31-AUG-01	180 6020
			SO4=	1020.	ppm	JN	23-AUG-01	28 9036
			TDS	2317.	ppm	ED	01-AUG-01	7 160.1
			TSS	19.	ppm	EH	01-AUG-01	160.2
			ZN	0.043	ppm	MF	31-AUG-01	180 6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180 6020
L011102-017	25-JUL-01	EPRI-0108-145	AS	0.024	ppm	MF	31-AUG-01	180 6020
			AS(D)	0.020	ppm	MF	31-AUG-01	180 6020
			CA	48.	ppm	EH	28-AUG-01	180 6010
			CD	<0.005	ppm	MF	31-AUG-01	180 6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180 6020
			CL-	587.	ppm	JN	20-AUG-01	28 325.2
			CO3	<1.0	ppm	DC	02-AUG-01	310.1
			COND.	4750.	umhos/cm2	EH	03-AUG-01	28 120.1

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Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-017	25-JUL-01	EPRI-0108-145	CR	0.011	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	14	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	4.5	ppm	EH	02-AUG-01	28	340.2
			FE	1.3	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	374.	ppm	DC	02-AUG-01	14	310.1
			K	9.2	ppm	EH	28-AUG-01	180	6010
			MG	57.	ppm	EH	28-AUG-01	180	6010
			NA	981.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	9.7	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.1	PH	DC	02-AUG-01	14	150.1
			SE	0.10	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.11	ppm	MF	31-AUG-01	180	6020
			SO4	1337.	ppm	JN	23-AUG-01	28	9036
			TDS	3259.	ppm	ED	01-AUG-01	7	160.1
			TSS	30.	ppm	EH	01-AUG-01	160.2	
			ZN	0.023	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
L011102-018	25-JUL-01	EPRI-0108-146	AS	0.020	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.021	ppm	MF	31-AUG-01	180	6020
			CA	182.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	449.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm	CaCO3	02-AUG-01	310.1	
			COND.	5040.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	14	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	1.2	ppm	EH	02-AUG-01	28	340.2
			FE	0.27	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	28-AUG-01	180	6010
			HCO3	421.	ppm	CaCO3	02-AUG-01	14	310.1

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Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-018	25-JUL-01	EPRI-0108-146	K	20.	ppm	EH	28-AUG-01	180	6010
			MG	85.	ppm	EH	28-AUG-01	180	6010
			NA	916.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	0.80	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.8	PH	DC	02-AUG-01	150.1	
			SE	0.010	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.009	ppm	MF	31-AUG-01	180	6020
			SO4=	1719.	ppm	JN	23-AUG-01	28	9036
			TDS	3656.	ppm	BD	01-AUG-01	7	160.1
			TSS	6.9	ppm	EH	01-AUG-01	160.2	
			ZN	0.027	ppm	MF	31-AUG-01	180	6020
			ZN(D)	0.023	ppm	MF	31-AUG-01	180	6020
			AS	0.48	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.55	ppm	MF	31-AUG-01	180	6020
			CA	165.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	145.	ppm	JN	20-AUG-01	28	325.2
L011102-019	25-JUL-01	EPRI-0108-147	CO3	<1.0	ppm CaCO3	DC	02-AUG-01	310.1	
			COND.	2900.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	2.0	ppm	MF	31-AUG-01	14	6020
			FE	<0.10	ppm	EH	02-AUG-01	28	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	380.	ppm	EH	28-AUG-01	180	6010
			K	24.	ppm	DC	02-AUG-01	14	310.1
			MG	82.	ppm	EH	28-AUG-01	180	6010
			NA	433.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	7.7	ppm	JN	24-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.6	PH	DC	02-AUG-01	150.1	
			SE	0.28	ppm	MF	31-AUG-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011102-019	25-JUL-01	EPRI-0108-147	SE(D)	0.31	ppm	MF	31-AUG-01	180	6020
			SO4=	1034.	ppm	JN	23-AUG-01	28	9036
			TDS	2204.	ppm	BD	01-AUG-01	7	160.1
			TSS	1.7	ppm	EH	01-AUG-01	160.2	
			ZN	0.054	ppm	MF	31-AUG-01	180	6020
			ZN(D)	0.050	ppm	MF	31-AUG-01	180	6020
			AS	0.019	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.014	ppm	MF	31-AUG-01	180	6020
			CA	169.	ppm	EH	28-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	592.	ppm	JN	20-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-AUG-01	310.1	
L011102-020	25-JUL-01	EPRI-0108-148	COND.	4760.	umhos/cm2	EH	03-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	180	6020
			F-	2.2	ppm	MF	31-AUG-01	14	6020
			FE	<0.10	ppm	EH	02-AUG-01	28	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	345.	ppm CaCO3	DC	28-AUG-01	180	6010
			K	26.	ppm	EH	02-AUG-01	14	310.1
			MG	94.	ppm	EH	28-AUG-01	180	6010
			NA	829.	ppm	EH	28-AUG-01	180	6010
			NO2/NO3	8.2	ppm	JN	31-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.6	pH	DC	02-AUG-01	150.1	
			SE	0.13	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.14	ppm	MF	31-AUG-01	180	6020
			SO4=	1347.	ppm	JN	23-AUG-01	28	9036
			TDS	3456.	ppm	BD	01-AUG-01	7	160.1
			TSS	3.0	ppm	EH	01-AUG-01	160.2	
			ZN	0.026	ppm	MF	31-AUG-01	180	6020
			ZN(D)	0.023	ppm	MF	31-AUG-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

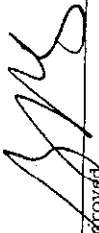

El Paso

Water and Solid Waste (Project 3220)

Batch No: L01102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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PH is a field parameter therefore holding time cannot be met by the laboratory.
 Digestion Methods for totals --- 3010 and 6020.
 In some cases dissolved concentrations exceeded totals and was confirmed by repeat analysis.


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010847

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
WG010847-1		Matrix Spike						
			AS	98	%Recovery	MF	31-AUG-01	6020
			AS(D)	96	%Recovery	MF	31-AUG-01	6020
			CD	92	%Recovery	MF	31-AUG-01	6020
			CD(D)	90	%Recovery	MF	31-AUG-01	6020
			CL-	100	%Recovery	JN	20-AUG-01	325.2
			CR	92	%Recovery	MF	31-AUG-01	6020
			CU	88	%Recovery	MF	31-AUG-01	6020
			CU(D)	85	%Recovery	MF	31-AUG-01	6020
			F-	102	%Recovery	EH	02-AUG-01	340.2
			FE	73*	%Recovery	EH	29-AUG-01	6010
			FE(D)	100	%Recovery	EH	28-AUG-01	6010
			NO2/NO3	99	%Recovery	JN	24-AUG-01	353.2
			PB	99	%Recovery	MF	31-AUG-01	6020
			PB(D)	102	%Recovery	MF	31-AUG-01	6020
			SE	95	%Recovery	MF	31-AUG-01	6020
			SE(D)	110	%Recovery	MF	10-SEP-01	6020
			SO4=	103	%Recovery	JN	23-AUG-01	9036
			ZN	83	%Recovery	MF	31-AUG-01	6020
			ZN(D)	96	%Recovery	EH	28-AUG-01	6010
WG010847-2		Prep Blank						
			AS	<0.005	ppm	MF	31-AUG-01	6020
			AS(D)	<0.005	ppm	MF	31-AUG-01	6020
			CA	<1.0	ppm	EH	28-AUG-01	6010
			CD	<0.005	ppm	MF	31-AUG-01	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	6020
			CL-	<1.0	ppm	JN	20-AUG-01	325.2
			CO3	<1.0	ppm	CaCO3	02-AUG-01	310.1
			COND.	<5.0	umhos/cm2	EH	03-AUG-01	120.1
			CR	<0.010	ppm	MF	31-AUG-01	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	6020
			CU	<0.025	ppm	MF	31-AUG-01	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	6020
			F-	<0.050	ppm	MF	31-AUG-01	6020
			FE	<0.10	ppm	EH	02-AUG-01	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	6010
			HCO3	<1.0	ppm	EH	28-AUG-01	6010
			K	<2.0	ppm	CaCO3	02-AUG-01	310.1
			MG	<1.0	ppm	EH	28-AUG-01	6010
			NA	<2.0	ppm	EH	28-AUG-01	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010847

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010847-2		Prep Blank	NO2/NO3	<0.050	ppm	JN	24-AUG-01		353.2
			PB	<0.003	ppm	MF	31-AUG-01		6020
			PB (D)	<0.003	ppm	MF	31-AUG-01		6020
			SE	<0.005	ppm	MF	31-AUG-01		6020
			SE (D)	<0.005	ppm	MF	10-SEP-01		6020
			SO4=	<2.0	ppm	JN	23-AUG-01		9036
			TDS	<10.	ppm	BD	01-AUG-01		160.1
			TSS	<1.0	ppm	EH	01-AUG-01		160.2
			ZN	<0.020	ppm	MF	31-AUG-01		6020
			ZN (D)	<0.020	ppm	EH	28-AUG-01		6010
			AS	96	%Recovery	MF	31-AUG-01		6020
			AS (D)	108	%Recovery	MF	31-AUG-01		6020
			CA	100	%Recovery	EH	28-AUG-01		6010
			CD	93	%Recovery	MF	31-AUG-01		6020
WG010847-3		Lab Control Sample	CD (D)	104	%Recovery	MF	31-AUG-01		6020
			CL-	104	%Recovery	JN	20-AUG-01		325.2
			COND.	99	%Recovery	EH	03-AUG-01		120.1
			CR	99	%Recovery	MF	31-AUG-01		6020
			CU	94	%Recovery	MF	31-AUG-01		6020
			CU (D)	99	%Recovery	MF	31-AUG-01		6020
			F-	92	%Recovery	EH	02-AUG-01		340.2
			FE	98	%Recovery	EH	29-AUG-01		6010
			FE (D)	101	%Recovery	EH	28-AUG-01		6010
			HCO3	99	%Recovery	DC	28-AUG-01		310.1
			K	100	%Recovery	EH	28-AUG-01		6010
			MG	100	%Recovery	EH	28-AUG-01		6010
			NA	101	%Recovery	EH	28-AUG-01		6010
			NO2/NO3	95	%Recovery	JN	24-AUG-01		353.2
			PB	103	%Recovery	MF	31-AUG-01		6020
			PB (D)	109	%Recovery	MF	31-AUG-01		6020
			SE	90	%Recovery	MF	31-AUG-01		6020
			SE (D)	115	%Recovery	MF	31-AUG-01		6020
			SO4=	110	%Recovery	JN	23-AUG-01		9036
			TDS	99	%Recovery	BD	01-AUG-01		160.1
			TSS	91	%Recovery	EH	01-AUG-01		160.2
			ZN	91	%Recovery	MF	31-AUG-01		6020
			ZN (D)	98	%Recovery	EH	28-AUG-01		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010847

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010847-4		Duplicate	CL-	4.3	% RPD	JN	20-AUG-01	325.2	
			CO3	<1	% RPD	DC	02-AUG-01	310.1	
			COND.	<1	% RPD	EH	03-AUG-01	120.1	
			F-	5.5	% RPD	EH	02-AUG-01	340.2	
			HCO3	<1	% RPD	DC	02-AUG-01	310.1	
			NO2/NO3	2.9	% RPD	JN	24-AUG-01	353.2	
			SO4=	2.7	% RPD	JN	23-AUG-01	9036	
			TDS	1.4	% RPD	EH	01-AUG-01	160.1	
			TSS	<1	% RPD	EH	01-AUG-01	160.2	
			AS	1.6	% RPD	MF	31-AUG-01	6020	
			AS(D)	<1	% RPD	MF	31-AUG-01	6020	
			CA	<1	% RPD	EH	28-AUG-01	6010	
			CD	3.2	% RPD	MF	31-AUG-01	6020	
WG010847-5		Matrix Spike Duplicate	CD(D)	1.1	% RPD	MF	31-AUG-01	6020	
			CR	<1	% RPD	MF	31-AUG-01	6020	
			CU	2.2	% RPD	MF	31-AUG-01	6020	
			CU(D)	1.5	% RPD	MF	31-AUG-01	6020	
			FE	<1	% RPD	EH	29-AUG-01	6010	
			FE(D)	<1	% RPD	EH	28-AUG-01	6010	
			K	<1	% RPD	EH	28-AUG-01	6010	
			MG	<1	% RPD	EH	28-AUG-01	6010	
			NA	<1	% RPD	EH	28-AUG-01	6010	
			PB	2.0	% RPD	MF	31-AUG-01	6020	
			PB(D)	9.5	% RPD	MF	31-AUG-01	6020	
			SE	2.4	% RPD	MF	31-AUG-01	6020	
			SE(D)	1.8	% RPD	MF	31-AUG-01	6020	
WG010847-6		Reporting Limit	ZN	1.6	% RPD	MF	31-AUG-01	6020	
			ZN(D)	<1	% RPD	EH	28-AUG-01	6010	
			AS	0.005	ppm			6020	
			AS(D)	0.005	ppm			6020	
			CA	1.0	ppm			6010	
			CD	0.005	ppm			6020	
			CD(D)	0.005	ppm			6020	
			CL-	1.0	ppm			325.2	
			CO3	1.0	ppm CaCO3			310.1	
			COND.	5.0	umhos/cm2			120.1	
			CR	0.010	ppm			6020	

ASARCO Technical Services Center

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010847

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010847-6		Reporting Limit	CR (D)	0.010	ppm				6020
			CU	0.025	ppm				6020
			CU (D)	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			FE (D)	0.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			Mg	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	0.050	ppm				353.2
			PB	0.003	ppm				6020
			PB (D)	0.003	ppm				6020
			SE	0.005	ppm				6020
			SE (D)	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
WG010847-7		Matrix Spike	TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020
			ZN (D)	0.020	ppm				6010
			AS	92	%Recovery	EH	29-AUG-01		6010
			AS (D)	100	%Recovery	EH	28-AUG-01		6010
WG010847-8		Prep Blank	CR (D)	98	%Recovery	MF	31-AUG-01		6020
			ZN	93	%Recovery	EH	29-AUG-01		6010
			ZN (D)	77	%Recovery	MF	31-AUG-01		6020
			AS	<0.020	ppm	EH	29-AUG-01		6010
			AS (D)	<0.020	ppm	EH	28-AUG-01		6010
WG010847-9		Lab Control Sample	CR (D)	<0.010	ppm	MF	31-AUG-01		6020
			ZN	<0.020	ppm	EH	29-AUG-01		6010
			ZN (D)	<0.020	ppm	MF	31-AUG-01		6020
			AS	87	%Recovery	EH	29-AUG-01		6010
			AS (D)	100	%Recovery	EH	28-AUG-01		6010
			CR (D)	103	%Recovery	MF	31-AUG-01		6020
			ZN	88	%Recovery	EH	29-AUG-01		6010
			ZN (D)	99	%Recovery	MF	31-AUG-01		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT



El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010847

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010847-11		Matrix Spike Duplicate	AS	2.8	% RPD	EH	29-AUG-01		6010
			AS(D)	4.9	% RPD	EH	28-AUG-01		6010
			CR(D)	<1	% RPD	MF	31-AUG-01		6020
			SE(D)	2.9	% RPD	MF	31-AUG-01		6020
			ZN	3.6	% RPD	EH	29-AUG-01		6010
			ZN(D)	16	% RPD	MF	31-AUG-01		6020

* = low spike recovery due to matrix interference.


 Approved

 Reviewer

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

Signature

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

HFO-4/95

Return results & electronic copy to:
Computer Dept at address above of name

Split Samples:
☐ Accepted ☐ Declined

Signature _____

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1246 VZ ASARCO - EL PASO, TX						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH				
DATE	TIME	COMP	GRAB	SAMPLE NUMBER													
7/25/01	10:00			EPRI-0108-145		X	X	X	X	X							
	16:10			EPRI-0108-146		X	X	X	X	X							
	08:45			EPRI-0108-147		X	X	X	X	X							
	15:15			EPRI-0108-148		X	X	X	X	X							
	09:30			EPRI-0108-151		X	X	X	X	X							
	10:30			EPRI-0108-152		X	X	X	X	X							
	14:10			EPRI-0108-172		X	X	X	X	X							
7/25/01	14:45			EPRI-0108-173		X	X	X	X	X							
[Large diagonal line across the table]																	
Relinquished (Signature)						Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
7/30/01 15:57								TSC, SLC, UT				Other					
Relinquished (Signature)						Received by: (Signature)		Remarks				Air Bill #					
Relinquished (Signature)						Received for Laboratory by: (Signature)		Date/Time		Enclosed:		<input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Other		Split Samples: <input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Declined			
						7-31-01 1030											

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011123

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-001	31-JUL-01	EPRI-0108-205	AS	<0.005	ppm	MF	31-AUG-01	180	6020
			AS(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CA	60.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL	99	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01	310.1	
			COND.	1003.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	6020	
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	0.68	ppm	EH	08-AUG-01	28	340.2
			FE	3.0	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	160.	ppm	DC	07-AUG-01	14	310.1
			K	8.4	ppm	EH	29-AUG-01	180	6010
			MG	15.	ppm	EH	29-AUG-01	180	6010
			NA	119.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.15	ppm	JN	27-AUG-01	28	353.2
			PB	0.005	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.9	PH	DC	07-AUG-01	150.1	
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			SE(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	221.	ppm	JN	23-AUG-01	28	9036
			TDS	654.	ppm	BD	06-AUG-01	7	160.1
			TSS	213.	ppm	BD	06-AUG-01	160.2	
			ZN	0.023	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
L011123-002	31-JUL-01	EPRI-0108-176	AS	0.029	ppm	MF	10-SEP-01	180	6020
			AS(D)	0.030	ppm	MF	10-SEP-01	180	6020
			CA	237.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL	632.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01	310.1	
			COND.	6900.	umhos/cm2	BD	08-AUG-01	28	120.1

ASARCO TECHNICAL SERVICES CENTER

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Batch No: L011123

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-002	31-JUL-01	EPRI-0108-176	CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR (D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	14	6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	1.9	ppm	EH	08-AUG-01	28	340.2
			FE	0.25	ppm	EH	29-AUG-01	180	6010
			FE (D)	0.21	ppm	EH	29-AUG-01	180	6010
			HCO3	528.	ppm	DC	07-AUG-01	14	310.1
			K	104.	ppm	CaCO3	29-AUG-01	180	6010
			MG	122.	ppm	EH	29-AUG-01	180	6010
			NA	1075.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.21	ppm	JN	31-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB (D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.4	pH	DC	07-AUG-01	150.1	
			SE	0.018	ppm	MF	10-SEP-01	180	6020
			SE (D)	0.018	ppm	MF	10-SEP-01	180	6020
			SO4=	2737.	ppm	JN	23-AUG-01	28	9036
			TDS	4878.	ppm	BD	06-AUG-01	7	160.1
			TSS	<1.0	ppm	BD	06-AUG-01	160.2	
			ZN	<0.020	ppm	MF	31-AUG-01	180	6020
			ZN (D)	<0.020	ppm	MF	31-AUG-01	180	6020
L011123-003	31-JUL-01	EPRI-0108-204	AS	<0.005	ppm	MF	31-AUG-01	180	6020
			AS (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CA	61.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	101.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	CaCO3	07-AUG-01	310.1	
			COND.	1000.	umbos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR (D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	14	6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	0.70	ppm	EH	08-AUG-01	28	340.2
			FE	2.7	ppm	EH	29-AUG-01	180	6010
			FE (D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	171.	ppm	CaCO3	07-AUG-01	14	310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYSED	DRYS	
L011123-003	31-JUL-01	EPRI-0108-204	K	9.7	ppm	EH	29-AUG-01	180	6010
			MG	15.	ppm	EH	29-AUG-01	180	6010
			NA	119.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.15	ppm	JN	27-AUG-01	28	353.2
			PB	0.005	ppm	MF	31-AUG-01	180	6020
			PB (D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.0	pH	DC	07-AUG-01	150.1	
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			SE (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	193.	ppm	JN	23-AUG-01	28	9036
			TDS	657.	ppm	BD	06-AUG-01	7	160.1
			TSS	228.	ppm	BD	06-AUG-01	160.2	
			ZN	<0.020	ppm	MF	31-AUG-01	180	6020
			ZN (D)	<0.020	ppm	MF	31-AUG-01	180	6020
L011123-004	31-JUL-01	EPRI-0108-177	AS	0.013	ppm	MF	10-SEP-01	180	6020
			AS (D)	0.013	ppm	MF	10-SEP-01	180	6020
			CA	119.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	342.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01	310.1	
			COND.	3580.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR (D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	6020	
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	3.0	ppm	EH	08-AUG-01	28	340.2
			FE	0.78	ppm	EH	29-AUG-01	180	6010
			FE (D)	0.66	ppm	EH	29-AUG-01	180	6010
			HCO3	287.	ppm	DC	07-AUG-01	14	310.1
			K	42.	ppm	EH	29-AUG-01	180	6010
			MG	55.	ppm	EH	29-AUG-01	180	6010
			NA	599.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.15	ppm	JN	31-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB (D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.6	pH	DC	07-AUG-01	150.1	
			SE	0.005	ppm	MF	10-SEP-01	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-004	31-JUL-01	EPRI-0108-177	SE(D)	0.005	ppm	MF	10-SEP-01	180	6020
			SO4=	1179.	ppm	JN	23-AUG-01	28	9036
			TDS	2464.	ppm	BD	06-AUG-01	7	160.1
			TSS	<1.0	ppm	BD	06-AUG-01		160.2
			ZN	<0.020	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
			AS	<0.005	ppm	MF	31-AUG-01	180	6020
			AS(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CA	64.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
L011123-005	01-AUG-01	EPRI-0108-207	CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	97.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01		310.1
			COND.	1030.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01		6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	0.71	ppm	EH	08-AUG-01	28	340.2
			FE	3.1	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	178.	ppm CaCO3	DC	07-AUG-01	14	310.1
			K	11.	ppm	EH	29-AUG-01	180	6010
			MG	16.	ppm	EH	29-AUG-01	180	6010
			NA	120.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.36	ppm	JN	27-AUG-01	28	353.2
			PB	0.005	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.3	pH	DC	07-AUG-01		150.1
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			SE(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	220.	ppm	JN	23-AUG-01	28	9036
			TDS	687.	ppm	BD	06-AUG-01	7	160.1
			TSS	180.	ppm	BD	06-AUG-01		160.2
			ZN	0.022	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L01123-006	01-AUG-01	EPRI-0108-206	AS	0.005	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.005	ppm	MF	31-AUG-01	180	6020
			CA	65.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	100.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01	310.1	
			COND.	1027.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	0.69	ppm	EH	08-AUG-01	28	340.2
			FE	3.1	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	168.	ppm	DC	07-AUG-01	14	310.1
			K	11.	ppm	EH	29-AUG-01	180	6010
			MG	16.	ppm	EH	29-AUG-01	180	6010
			NA	120.	ppm	JN	27-AUG-01	28	353.2
			NO2/NO3	0.40	ppm	MF	31-AUG-01	180	6020
			PB	0.004	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	07-AUG-01	150.1	
			PH	8.2	pH	DC	07-AUG-01	180	6020
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			SE(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	214.	ppm	JN	23-AUG-01	28	9036
			TDS	661.	ppm	BD	06-AUG-01	7	160.1
			TSS	170.	ppm	BD	06-AUG-01	160.2	
			ZN	0.026	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
L01123-007	01-AUG-01	EPRI-0108-201	AS	0.005	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.005	ppm	MF	31-AUG-01	180	6020
			CA	64.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	105.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01	310.1	
			COND.	1045.	umhos/cm2	BD	08-AUG-01	28	120.1

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Batch No: L011123

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-007	01-AUG-01	EPRI-0108-201	CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	6020	
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	0.68	ppm	EH	08-AUG-01	28	340.2
			FE	3.2	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	175.	ppm	DC	07-AUG-01	14	310.1
			K	9.5	ppm	CaCO3	29-AUG-01	180	6010
			MG	16.	ppm	EH	29-AUG-01	180	6010
			NA	124.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.55	ppm	EH	29-AUG-01	180	6010
			PB	0.004	ppm	JN	27-AUG-01	28	353.2
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.2	ppm	MF	31-AUG-01	180	6020
			SE	<0.005	ppm	DC	07-AUG-01	150.1	
			SE(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	212.	ppm	MF	31-AUG-01	180	6020
			TDS	663.	ppm	JN	23-AUG-01	28	9036
			TSS	182.	ppm	BD	06-AUG-01	7	160.1
			ZN	0.024	ppm	BD	06-AUG-01	160.2	
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
L011123-008	01-AUG-01	EPRI-0108-199	AS	0.005	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.005	ppm	MF	31-AUG-01	180	6020
			CA	53.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	106.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	CaCO3	07-AUG-01	310.1	
			COND.	1046.	umhos/cm2	DC	08-AUG-01	28	120.1
			CR	<0.010	ppm	BD	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	0.68	ppm	EH	08-AUG-01	28	340.2
			FE	2.8	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	180.	ppm	CaCO3	07-AUG-01	14	310.1

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Batch No: L01123

LAB NO	DATE COMPLETED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-008	01-AUG-01	EPRI-0108-199	K	10.	ppm	EH	29-AUG-01	180	6010
			MG	16.	ppm	EH	29-AUG-01	180	6010
			NA	124.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.56	ppm	JN	27-AUG-01	28	353.2
			PB	0.004	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.2	pH	DC	07-AUG-01	150.1	
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			SE(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	194.	ppm	JN	23-AUG-01	28	9036
			TDS	673.	ppm	BD	06-AUG-01	7	160.1
			TSS	194.	ppm	BD	06-AUG-01		160.2
			ZN	0.021	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
			AS	0.005	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.005	ppm	MF	31-AUG-01	180	6020
			CA	64.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	104.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01		310.1
			COND.	1046.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
L011123-009	01-AUG-01	EPRI-0108-258	CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	180	6020
			F-	0.70	ppm	MF	31-AUG-01	14	6020
			FE	3.1	ppm	EH	08-AUG-01	28	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	175.	ppm CaCO3	DC	07-AUG-01	14	310.1
			K	11.	ppm	EH	29-AUG-01	180	6010
			MG	16.	ppm	EH	29-AUG-01	180	6010
			NA	125.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.56	ppm	JN	27-AUG-01	28	353.2
			PB	0.004	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.2	pH	DC	07-AUG-01	150.1	
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			AS	0.005	ppm	MF	31-AUG-01	180	6020
			AS(D)	0.005	ppm	MF	31-AUG-01	180	6020
			CA	64.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	104.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01		310.1
			COND.	1046.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	180	6020
			F-	0.70	ppm	MF	31-AUG-01	14	6020
			FE	3.1	ppm	EH	08-AUG-01	28	340.2
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	175.	ppm CaCO3	DC	07-AUG-01	14	310.1
			K	11.	ppm	EH	29-AUG-01	180	6010
			MG	16.	ppm	EH	29-AUG-01	180	6010
			NA	125.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	0.56	ppm	JN	27-AUG-01	28	353.2
			PB	0.004	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.2	pH	DC	07-AUG-01	150.1	
			SE	<0.005	ppm	MF	31-AUG-01	180	6020

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Batch No: L011123

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-009	01-AUG-01	EPRI-0108-258	SE(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	212.	ppm	JN	23-AUG-01	28	9036
			TDS	680.	ppm	BD	06-AUG-01	7	160.1
			TSS	187.	ppm	BD	06-AUG-01		160.2
			ZN	0.021	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
			AS	0.60	ppm	EH	29-AUG-01	180	6010
			AS(D)	0.57	ppm	EH	29-AUG-01	180	6010
			CA	81.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
L011123-010	01-AUG-01	EPRI-0108-185	CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	354.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01	310.1	
			COND.	3300	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	1.7	ppm	EH	08-AUG-01	28	340.2
			FE	0.97	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	330.	ppm	DC	07-AUG-01	14	310.1
			K	11.	ppm	EH	29-AUG-01	180	6010
			MG	64.	ppm	EH	29-AUG-01	180	6010
			NA	562.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	6.7	ppm	JN	27-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			FE(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.7	pH	DC	07-AUG-01	150.1	
			SE	0.031	ppm	MF	31-AUG-01	180	6020
			SE(D)	0.032	ppm	MF	31-AUG-01	180	6020
			SO4=	1149.	ppm	JN	23-AUG-01	28	9036
			TDS	2258.	ppm	BD	06-AUG-01	7	160.1
			TSS	60.	ppm	BD	06-AUG-01		160.2
			ZN	0.020	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011123

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-011	01-AUG-01	EPRI-0108-184	AS	0.35	ppm	MF	10-SEP-01	180	6020
			AS(D)	0.35	ppm	MF	10-SEP-01	180	6020
			CA	89.	ppm	EH	29-AUG-01	180	6010.
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL	252.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01		310.1
			COND.	3420.	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR(D)	<0.010	ppm	MF	31-AUG-01	180	6020.
			CU	<0.025	ppm	MF	31-AUG-01		6020
			CU(D)	<0.025	ppm	MF	31-AUG-01	14	6020.
			F-	2.5	ppm	EH	08-AUG-01	28	340.2
			FE	0.67	ppm	EH	29-AUG-01	180	6010
			FE(D)	<0.10	ppm	EH	29-AUG-01	180	6010.
			HCO3	385.	ppm	DC	07-AUG-01	14	310.1
			K	27.	ppm	EH	29-AUG-01	180	6010
			MG	62.	ppm	EH	29-AUG-01	180	6010
			NA	599.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	3.3	ppm	JN	27-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB(D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	8.0	pH	DC	07-AUG-01		150.1
			SE	0.15	ppm	MF	10-SEP-01	180	6020
			SE(D)	0.15	ppm	MF	10-SEP-01	180	6020
			SO4=	1043.	ppm	JN	23-AUG-01	28	9036
			TDS	2460.	ppm	BD	06-AUG-01	7	160.1
			TSS	38.	ppm	BD	06-AUG-01		160.2
			ZN	0.023	ppm	MF	31-AUG-01	180	6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01	180	6020
L011123-012	01-AUG-01	EPRI-0108-259	AS	0.36	ppm	MF	10-SEP-01	180	6020
			AS(D)	0.35	ppm	MF	10-SEP-01	180	6020
			CA	89.	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD(D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL	256.	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm	DC	07-AUG-01		310.1
			COND.	3430.	umhos/cm2	BD	08-AUG-01	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011123

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-012	01-AUG-01	EPRI-0108-259	CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR (D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01		6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	2.5	ppm	EH	08-AUG-01	28	340.2
			FE	0.55	ppm	EH	29-AUG-01	180	6010
			FE (D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	387.	ppm CaCO3	DC	07-AUG-01	14	310.1
			K	29.	ppm	EH	29-AUG-01	180	6010
			MG	63.	ppm	EH	29-AUG-01	180	6010
			NA	601.	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	7.3	ppm	JN	27-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB (D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	7.9	pH	DC	07-AUG-01		150.1
			SE	0.15	ppm	MF	10-SEP-01	180	6020
			SE (D)	0.15	ppm	MF	10-SEP-01	180	6020
			SO4=	1141.	ppm	JN	23-AUG-01	28	9036
			TDS	2850.	ppm	BD	06-AUG-01	7	160.1
			TSS	37.	ppm	BD	06-AUG-01		160.2
			ZN	<0.020	ppm	MF	31-AUG-01	180	6020
			ZN (D)	<0.020	ppm	MF	31-AUG-01	180	6020
L011123-013	01-AUG-01	EPRI-0108-260	AS	<0.005	ppm	MF	31-AUG-01	180	6020
			AS (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CA	<1.0	ppm	EH	29-AUG-01	180	6010
			CD	<0.005	ppm	MF	31-AUG-01	180	6020
			CD (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			CL-	<1.0	ppm	JN	21-AUG-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01		310.1
			COND.	<5.0	umhos/cm2	BD	08-AUG-01	28	120.1
			CR	<0.010	ppm	MF	31-AUG-01	180	6020
			CR (D)	<0.010	ppm	MF	31-AUG-01	180	6020
			CU	<0.025	ppm	MF	31-AUG-01	180	6020
			CU (D)	<0.025	ppm	MF	31-AUG-01	14	6020
			F-	<0.050	ppm	EH	08-AUG-01	28	340.2
			FE	<0.10	ppm	EH	29-AUG-01	180	6010
			FE (D)	<0.10	ppm	EH	29-AUG-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	07-AUG-01	14	310.1

ASAFCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011123

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011123-013	01-AUG-01	EPRI-0108-260	K	3.7	ppm	EH	29-AUG-01	180	6010
			MG	<1.0	ppm	EH	29-AUG-01	180	6010
			NA	<2.0	ppm	EH	29-AUG-01	180	6010
			NO2/NO3	<0.050	ppm	JN	27-AUG-01	28	353.2
			PB	<0.003	ppm	MF	31-AUG-01	180	6020
			PB (D)	<0.003	ppm	MF	31-AUG-01	180	6020
			PH	5.3	PH	DC	07-AUG-01	150.1	
			SE	<0.005	ppm	MF	31-AUG-01	180	6020
			SE (D)	<0.005	ppm	MF	31-AUG-01	180	6020
			SO4=	<2.0	ppm	JN	23-AUG-01	28	9036
			TDS	13.	ppm	BD	06-AUG-01	7	160.1
			TSS	<1.0	ppm	BD	06-AUG-01	160.2	
			ZN	<0.020	ppm	MF	31-AUG-01	180	6020
			ZN (D)	<0.020	ppm	MF	31-AUG-01	180	6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

Approved
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010853

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010853-1		Matrix Spike	AS	92	\$Recovery	MF	31-AUG-01		6020
			AS (D)	103	\$Recovery	MF	31-AUG-01		6020
			CD	96	\$Recovery	MF	31-AUG-01		6020
			CD (D)	90	\$Recovery	MF	31-AUG-01		6020
			CL-	103	\$Recovery	JN	21-AUG-01		325.2
			CR	88	\$Recovery	MF	31-AUG-01		6020
			CR (D)	96	\$Recovery	MF	31-AUG-01		6020
			CU	89	\$Recovery	MF	31-AUG-01		6020
			CU (D)	89	\$Recovery	MF	31-AUG-01		6020
			F-	102	\$Recovery	EH	08-AUG-01		340.2
			FE	95	\$Recovery	EH	29-AUG-01		6010
			FE (D)	96	\$Recovery	EH	29-AUG-01		6010
			NO2/NO3	111	\$Recovery	JN	27-AUG-01		353.2
			PB	96	\$Recovery	MF	31-AUG-01		6020
			PB (D)	101	\$Recovery	MF	31-AUG-01		6020
			SE	82	\$Recovery	MF	31-AUG-01		6020
			SE (D)	106	\$Recovery	MF	31-AUG-01		6020
			SO4=	106	\$Recovery	JN	23-AUG-01		9036
			ZN	86	\$Recovery	MF	31-AUG-01		6020
			ZN (D)	85	\$Recovery	MF	31-AUG-01		6020
WG010853-2		Prep Blank	AS	<0.005	ppm	MF	31-AUG-01		6020
			AS (D)	<0.005	ppm	MF	31-AUG-01		6020
			CA	<1.0	ppm	EH	29-AUG-01		6010
			CD	<0.005	ppm	MF	31-AUG-01		6020
			CD (D)	<0.005	ppm	MF	31-AUG-01		6020
			CL-	<1.0	ppm	JN	21-AUG-01		325.2
			CO3	<1.0	ppm CaCO3	DC	07-AUG-01		310.1
			COND.	<5.0	umhos/cm2	BD	08-AUG-01		120.1
			CR	<0.010	ppm	MF	31-AUG-01		6020
			CR (D)	<0.010	ppm	MF	31-AUG-01		6020
			CU	<0.025	ppm	MF	31-AUG-01		6020
			CU (D)	<0.025	ppm	MF	31-AUG-01		6020
			F-	<0.050	ppm	MF	31-AUG-01		6020
			FE	<0.10	ppm	EH	08-AUG-01		340.2
			FE (D)	<0.10	ppm	EH	29-AUG-01		6010
			HCO3	<1.0	ppm CaCO3	DC	07-AUG-01		310.1
			K	<2.0	ppm	EH	29-AUG-01		6010
			MG	<1.0	ppm	EH	29-AUG-01		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010853

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010853-2		Prep Blank	NA	<2.0	ppm	EH	29-AUG-01		6010
			NO2/NO3	<0.050	ppm	JN	27-AUG-01		353.2
			PB	<0.003	ppm	MF	31-AUG-01		6020
			PB(D)	<0.003	ppm	MF	31-AUG-01		6020
			SE	<0.005	ppm	MF	31-AUG-01		6020
			SE(D)	<0.005	ppm	MF	31-AUG-01		6020
			SO4=	<2.0	ppm	JN	23-AUG-01		9036
			TDS	<10.	ppm	BD	06-AUG-01		160.1
			TSS	<1.0	ppm	BD	06-AUG-01		160.2
			ZN	<0.020	ppm	MF	31-AUG-01		6020
			ZN(D)	<0.020	ppm	MF	31-AUG-01		6020
			AS	93	%Recovery	MF	31-AUG-01		6020
			AS(D)	101	%Recovery	MF	31-AUG-01		6020
			CA	93	%Recovery	EH	29-AUG-01		6010
			CD	93	%Recovery	MF	31-AUG-01		6020
			CD(D)	101	%Recovery	MF	31-AUG-01		6020
WG010853-3		Lab Control Sample	CL-	101	%Recovery	JN	21-AUG-01		325.2
			COND.	101	%Recovery	BD	08-AUG-01		120.1
			CR	95	%Recovery	MF	31-AUG-01		6020
			CR(D)	99	%Recovery	MF	31-AUG-01		6020
			CU	96	%Recovery	MF	31-AUG-01		6020
			CU(D)	98	%Recovery	MF	31-AUG-01		6020
			F-	97	%Recovery	EH	08-AUG-01		340.2
			FE	97	%Recovery	EH	29-AUG-01		6010
			FE(D)	94	%Recovery	EH	29-AUG-01		6010
			HCO3	92	%Recovery	DC	07-AUG-01		310.1
			K	98	%Recovery	EH	29-AUG-01		6010
			MG	92	%Recovery	EH	29-AUG-01		6010
			NA	98	%Recovery	EH	29-AUG-01		6010
			NO2/NO3	99	%Recovery	JN	27-AUG-01		353.2
			PB	103	%Recovery	MF	31-AUG-01		6020
			PB(D)	108	%Recovery	MF	31-AUG-01		6020
			SE	87	%Recovery	MF	31-AUG-01		6020
			SE(D)	101	%Recovery	JN	23-AUG-01		9036
			SO4=	91	%Recovery	BD	06-AUG-01		160.1
			TDS	100	%Recovery	BD	06-AUG-01		160.2
			TSS	102	%Recovery	BD	06-AUG-01		160.2
			ZN	94	%Recovery	MF	31-AUG-01		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010853

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010853-3		Lab Control Sample	ZN(D)	99	% Recovery	MF	31-AUG-01		6020
WG010853-4		Duplicate	CL-	7.3	% RPD	JN	21-AUG-01		325.2
			COND.	<1	% RPD	BD	08-AUG-01		120.1
			F-	2.7	% RPD	EH	08-AUG-01		340.2
			HCO3	<1	% RPD	DC	07-AUG-01		310.1
			SO4=	7.5	% RPD	JN	23-AUG-01		9036
			TDS	7.2	% RPD	BD	06-AUG-01		160.1
			TSS	<1	% RPD	BD	06-AUG-01		160.2
			AS	2.2	% RPD	MF	31-AUG-01		6020
			AS(D)	<1	% RPD	MF	31-AUG-01		6020
			CA	4.6	% RPD	EH	29-AUG-01		6010
WG010853-5		Matrix Spike Duplicate	CD	1.0	% RPD	MF	31-AUG-01		6020
			CD(D)	<1	% RPD	MF	31-AUG-01		6020
			CR	3.7	% RPD	MF	31-AUG-01		6020
			CR(D)	2.2	% RPD	MF	31-AUG-01		6020
			CU	1.4	% RPD	MF	31-AUG-01		6020
			CU(D)	2.2	% RPD	MF	31-AUG-01		6020
			FE	4.8	% RPD	EH	29-AUG-01		6010
			FE(D)	<1	% RPD	EH	29-AUG-01		6010
			K	<1	% RPD	EH	29-AUG-01		6010
			MG	1.6	% RPD	EH	29-AUG-01		6010
			NA	3.3	% RPD	EH	29-AUG-01		6010
			NO2/NO3	11	% RPD	JN	27-AUG-01		353.2
			PB	<1	% RPD	MF	31-AUG-01		6020
			PB(D)	<1	% RPD	MF	31-AUG-01		6020
			SE	2.5	% RPD	MF	31-AUG-01		6020
			SE(D)	2.9	% RPD	MF	31-AUG-01		6020
			ZN	1.7	% RPD	MF	31-AUG-01		6020
			ZN(D)	2.4	% RPD	MF	31-AUG-01		6020
WG010853-6		Reporting Limit	AS	0.005	ppm				6020
			AS(D)	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CD(D)	0.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010853

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010853-6		Reporting Limit	COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020
			CR (D)	0.010	ppm				6020
			CU	0.025	ppm				6020
			CU (D)	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			FE (D)	0.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	0.050	ppm				353.2
			PB	0.003	ppm				6020
			PB (D)	0.003	ppm				6020
			SE	0.005	ppm				6020
			SE (D)	0.005	ppm				9036
			SO4=	2.0	ppm				160.1
			TDS	10.	ppm				160.2
			TSS	1.0	ppm				6020
			ZN	0.020	ppm				6020
			ZN (D)	0.020	ppm				6020
WG010853-7		Matrix Spike	AS	98	% Recovery	EH	29-AUG-01		6010
			AS (D)	93	% Recovery	EH	29-AUG-01		6010
WG010853-8		Prep Blank	AS	<0.020	ppm	EH	29-AUG-01		6010
			AS (D)	<0.020	ppm	EH	29-AUG-01		6010
WG010853-9		Lab Control Sample	AS	90	% Recovery	EH	29-AUG-01		6010
			AS (D)	93	% Recovery	EH	29-AUG-01		6010
WG010853-11		Matrix Spike Duplicate	AS	<1	% RPD	EH	29-AUG-01		6010
			AS (D)	2.7	% RPD	EH	29-AUG-01		6010

ASARCO TECHNICAL SERVICES CENTER

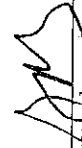

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010853

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	PAIS METHOD
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 Approved

 Reviewer

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

HF 1-4/95

CHAIN CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	COMMONS UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	TPH	REMARKS	
DATE	TIME	GRAB	SAMPLE NUMBER											
1746 YZ BARCO - EL PASO, TX				4									Shipped via: Bus, Fed Ex, UPS Other Air Bill #	
SAMPLERS: (Signature)														
G LEXIN														
8/16/01	0900		EPR1 - 0108 - 207		X	X	X	X	X	X	X	X		
	0940		EPR1 - 0108 - 206		X	X	X	X	X	X	X	X		
	1015		EPR1 - 0108 - 201		X	X	X	X	X	X	X	X		
	1040		EPR1 - 0108 - 199		X	X	X	X	X	X	X	X		
	1045		EPR1 - 0108 - 258		X	X	X	X	X	X	X	X		
	1345		EPR1 - 0108 - 135185	X	X	X	X	X	X	X	X			
	1430		EPR1 - 0108 - 184	X	X	X	X	X	X	X	X			
	1440		EPR1 - 0108 - 257	X	X	X	X	X	X	X	X			
	1530		EPR1 - 0108 - 260	X	X	X	X	X	X	X	X			
Relinquished (Signature)				Received by: (Signature)	Lab	P.O. #		Shipped via: Bus, Fed Ex, UPS Other Air Bill #						
Relinquished (Signature)				Received by: (Signature)	TSC		SALT LAY E		Remarks					
Relinquished (Signature)				Received for Laboratory by: (Signature)	Date/Time	Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined				

APPENDIX G

PHASE III SOIL-SEDIMENTS ANALYTICAL REPORTS



APPENDIX G

PHASE III SOIL-SEDIMENTS ANALYTICAL REPORTS

SECTION G-1	PHASE III SEDIMENTS ANALYTICAL RESULTS
SECTION G-2	PHASE III SOIL ANALYTICAL RESULTS



1. The first part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.



SECTION G-1

PHASE III SEDIMENTS ANALYTICAL RESULTS

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000710

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOUND
L000710-001	09-MAY-00	EPRI-0005-216	AS	2500	ppm	LCS	25-MAY-00	EDXRF
			CD	890	ppm	LCS	25-MAY-00	EDXRF
			CR	93	ppm	LCS	25-MAY-00	EDXRF
			CU	25000	ppm	LCS	25-MAY-00	EDXRF
			FE	2.5	%	LCS	25-MAY-00	EDXRF
			PB	3900	ppm	LCS	25-MAY-00	EDXRF
			SE	71	ppm	LCS	25-MAY-00	EDXRF
L000710-002	09-MAY-00	EPRI-0005-217	ZN	10000	ppm	LCS	25-MAY-00	EDXRF
			AS	3200	ppm	LCS	25-MAY-00	EDXRF
			CD	1800	ppm	LCS	25-MAY-00	EDXRF
			CR	430	ppm	LCS	25-MAY-00	EDXRF
			CU	24000	ppm	LCS	25-MAY-00	EDXRF
			FE	4.4	%	LCS	25-MAY-00	EDXRF
			PB	27000	ppm	LCS	25-MAY-00	EDXRF
L000710-003	09-MAY-00	EPRI-0005-218	SE	160	ppm	LCS	25-MAY-00	EDXRF
			ZN	20000	ppm	LCS	25-MAY-00	EDXRF
			AS	2600	ppm	LCS	25-MAY-00	EDXRF
			CD	1200	ppm	LCS	25-MAY-00	EDXRF
			CR	<80	ppm	LCS	25-MAY-00	EDXRF
			CU	75000	ppm	LCS	25-MAY-00	EDXRF
			FE	4.9	%	LCS	25-MAY-00	EDXRF
L000710-004	09-MAY-00	EPRI-0005-215	PB	6400	ppm	LCS	25-MAY-00	EDXRF
			SE	430	ppm	LCS	25-MAY-00	EDXRF
			ZN	27000	ppm	LCS	25-MAY-00	EDXRF
			AS	1800	ppm	LCS	25-MAY-00	EDXRF
			CD	40	ppm	LCS	25-MAY-00	EDXRF
			CR	390	ppm	LCS	25-MAY-00	EDXRF
			CU	17000	ppm	LCS	25-MAY-00	EDXRF
L000710-005	10-MAY-00	EPRI-0005-210	FE	26	%	LCS	25-MAY-00	EDXRF
			PB	5900	ppm	LCS	25-MAY-00	EDXRF
			SE	11	ppm	LCS	25-MAY-00	EDXRF
			ZN	25000	ppm	LCS	25-MAY-00	EDXRF
			AS	<10	ppm	LCS	25-MAY-00	EDXRF
			CD	<10	ppm	LCS	25-MAY-00	EDXRF
			CR	<80	ppm	LCS	25-MAY-00	EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000710

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	AUCTION	DATE ANALYZED	FIELD DAYS	METHOD
L000710-005	10-MAY-00	EPRI-0005-210	CU	110	ppm	LCS	25-MAY-00	EDXRF	
			FE	1.9	%	LCS	25-MAY-00	EDXRF	
			PB	58	ppm	LCS	25-MAY-00	EDXRF	
			SE	<10	ppm	LCS	25-MAY-00	EDXRF	
			ZN	86	ppm	LCS	25-MAY-00	EDXRF	
L000710-006	10-MAY-00	EPRI-0005-207	AS	<10	ppm	LCS	25-MAY-00	EDXRF	
			CD	<10	ppm	LCS	25-MAY-00	EDXRF	
			CR	<80	ppm	LCS	25-MAY-00	EDXRF	
			CU	49	ppm	LCS	25-MAY-00	EDXRF	
			FB	1.6	%	LCS	25-MAY-00	EDXRF	
			PB	36	ppm	LCS	25-MAY-00	EDXRF	
			SE	<10	ppm	LCS	25-MAY-00	EDXRF	
			ZN	40	ppm	LCS	25-MAY-00	EDXRF	
L000710-007	10-MAY-00	EPRI-0005-214	AS	10	ppm	LCS	25-MAY-00	EDXRF	
			CD	<10	ppm	LCS	25-MAY-00	EDXRF	
			CR	82	ppm	LCS	25-MAY-00	EDXRF	
			CU	77	ppm	LCS	25-MAY-00	EDXRF	
			FE	2.2	%	LCS	25-MAY-00	EDXRF	
			PB	40	ppm	LCS	25-MAY-00	EDXRF	
			SE	<10	ppm	LCS	25-MAY-00	EDXRF	
			ZN	83	ppm	LCS	25-MAY-00	EDXRF	
L000710-008	10-MAY-00	EPRI-0005-213	AS	<10	ppm	LCS	25-MAY-00	EDXRF	
			CD	<10	ppm	LCS	25-MAY-00	EDXRF	
			CR	<80	ppm	LCS	25-MAY-00	EDXRF	
			CU	<20	ppm	LCS	25-MAY-00	EDXRF	
			FE	2.0	%	LCS	25-MAY-00	EDXRF	
			PB	20	ppm	LCS	25-MAY-00	EDXRF	
			SE	<10	ppm	LCS	25-MAY-00	EDXRF	
			ZN	93	ppm	LCS	25-MAY-00	EDXRF	
L000710-009	10-MAY-00	EPRI-0005-205	AS	<10	ppm	LCS	25-MAY-00	EDXRF	
			CD	<10	ppm	LCS	25-MAY-00	EDXRF	
			CR	190	ppm	LCS	25-MAY-00	EDXRF	
			CU	32	ppm	LCS	25-MAY-00	EDXRF	
			FE	1.7	%	LCS	25-MAY-00	EDXRF	
			PB	20	ppm	LCS	25-MAY-00	EDXRF	

ASARCO TECHNICAL SERVICES CENTER


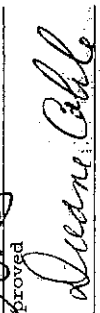
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000710

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD
L000710-009	10-MAY-00	EPRI-0005-205	SE	<10	ppm	LCS	25-MAY-00	EDXRF
			ZN	22	ppm	LCS	25-MAY-00	EDXRF
L000710-010	10-MAY-00	EPRI-0005-212	AS	<10	ppm	LCS	25-MAY-00	EDXRF
			CD	<10	ppm	LCS	25-MAY-00	EDXRF
			CR	<80	ppm	LCS	25-MAY-00	EDXRF
			CU	71	ppm	LCS	25-MAY-00	EDXRF
			FE	1.8	%	LCS	25-MAY-00	EDXRF
			PB	19	ppm	LCS	25-MAY-00	EDXRF
			SE	<10	ppm	LCS	25-MAY-00	EDXRF
			ZN	41	ppm	LCS	25-MAY-00	EDXRF
L000710-011	10-MAY-00	EPRI-0005-211	AS	<10	ppm	LCS	25-MAY-00	EDXRF
			CD	<10	ppm	LCS	25-MAY-00	EDXRF
			CR	<80	ppm	LCS	25-MAY-00	EDXRF
			CU	60	ppm	LCS	25-MAY-00	EDXRF
			FE	2.1	%	LCS	25-MAY-00	EDXRF
			PB	33	ppm	LCS	25-MAY-00	EDXRF
			SE	<10	ppm	LCS	25-MAY-00	EDXRF
			ZN	52	ppm	LCS	25-MAY-00	EDXRF


 Approved

 Reviewer

Hydrometrics, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO.	COMMONS UF/RAW	NUTRIENTS UF/H ₂ SO ₄	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTEX	TPH	STANDARD XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn			
PROJ. NO. 0931172 PROJECT NAME ASARC0-E10450, TX SAMPLERS: (Signature) Douglas M. Jelen																	
5-9-00	1015			ERR1-0005-216	1-BAG												
5-9-00	1030			ERR1-0005-217	1-BAG												
5-9-00	1045			ERR1-0005-218	1-BAG												
5-10-00	1300			ERR1-0005-215	1-BAG												
5-10-00	1320			ERR1-0005-210	1-BAG												
	1345			ERR1-0005-207	1-BAG												
	1315			ERR1-0005-214	1-BAG												
	1330			ERR1-0005-213	1-BAG												
	1000			ERR1-0005-205	1-BAG												
	1015			ERR1-0005-212	1-BAG												
	1030			ERR1-0005-211	1-BAG												
Relinquished (Signature) <i>[Signature]</i> Date/Time 5/10/00 16:00 Received by: (Signature) <i>[Signature]</i>				Lab TSC - SEC, UT													
Relinquished (Signature) <i>[Signature]</i> Date/Time 5-11-00 1330 Received for Laboratory by: (Signature) <i>[Signature]</i>				Remarks													
Relinquished (Signature) <i>[Signature]</i> Date/Time 5-11-00 1330 Received for Laboratory by: (Signature) <i>[Signature]</i>				Remarks													

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

Chain of Custody

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001364

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L001364-001	21-AUG-00	ERPI-0008-207	AS	24	ppm	LCS	07-SEP-00	EDXRF
			CD	<10	ppm	LCS	07-SEP-00	EDXRF
			CR	93	ppm	LCS	07-SEP-00	EDXRF
			CU	210	ppm	LCS	07-SEP-00	EDXRF
			FE	2.0	%	LCS	07-SEP-00	EDXRF
			PB	170	ppm	LCS	07-SEP-00	EDXRF
			SE	<10	ppm	LCS	07-SEP-00	EDXRF
			ZN	130	ppm	LCS	07-SEP-00	EDXRF
			AS	14	ppm	LCS	07-SEP-00	EDXRF
			CD	<10	ppm	LCS	07-SEP-00	EDXRF
L001364-002	21-AUG-00	ERPI-0008-214	CR	<80	ppm	LCS	07-SEP-00	EDXRF
			CU	520	ppm	LCS	07-SEP-00	EDXRF
			FE	2.0	%	LCS	07-SEP-00	EDXRF
			PB	380	ppm	LCS	07-SEP-00	EDXRF
			SE	<10	ppm	LCS	07-SEP-00	EDXRF
			ZN	220	ppm	LCS	07-SEP-00	EDXRF
			AS	11	ppm	LCS	07-SEP-00	EDXRF
			CD	<10	ppm	LCS	07-SEP-00	EDXRF
			CR	86	ppm	LCS	07-SEP-00	EDXRF
			CU	38	ppm	LCS	07-SEP-00	EDXRF
L001364-003	21-AUG-00	ERPI-0008-213	FE	2.1	%	LCS	07-SEP-00	EDXRF
			PB	46	ppm	LCS	07-SEP-00	EDXRF
			SE	<10	ppm	LCS	07-SEP-00	EDXRF
			ZN	59	ppm	LCS	07-SEP-00	EDXRF
			AS	<10	ppm	LCS	07-SEP-00	EDXRF
			CD	<10	ppm	LCS	07-SEP-00	EDXRF
			CR	<80	ppm	LCS	07-SEP-00	EDXRF
			CU	100	ppm	LCS	07-SEP-00	EDXRF
			FE	2.1	%	LCS	07-SEP-00	EDXRF
			PB	85	ppm	LCS	07-SEP-00	EDXRF
L001364-004	21-AUG-00	ERPI-0008-205	SE	<10	ppm	LCS	07-SEP-00	EDXRF
			ZN	100	ppm	LCS	07-SEP-00	EDXRF
			AS	<10	ppm	LCS	07-SEP-00	EDXRF
			CD	<10	ppm	LCS	07-SEP-00	EDXRF
			CR	<80	ppm	LCS	07-SEP-00	EDXRF
			CU	100	ppm	LCS	07-SEP-00	EDXRF
			FE	2.1	%	LCS	07-SEP-00	EDXRF
			PB	85	ppm	LCS	07-SEP-00	EDXRF
			SE	<10	ppm	LCS	07-SEP-00	EDXRF
			ZN	100	ppm	LCS	07-SEP-00	EDXRF
L001364-005	21-AUG-00	ERPI-0008-241	AS	17	ppm	LCS	07-SEP-00	EDXRF
			CD	<10	ppm	LCS	07-SEP-00	EDXRF
			CR	<80	ppm	LCS	07-SEP-00	EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001364

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001364-005	21-AUG-00	ERP1-0008-241	CU	160	ppm	LCS	07-SEP-00		EDXRF
			FE	2.1	%	LCS	07-SEP-00		EDXRF
			PB	92	ppm	LCS	07-SEP-00		EDXRF
			SE	<10	ppm	LCS	07-SEP-00		EDXRF
			ZN	85	ppm	LCS	07-SEP-00		EDXRF
L001364-006	21-AUG-00	ERP1-0008-212	AS	<10	ppm	LCS	07-SEP-00		EDXRF
			CD	<10	ppm	LCS	07-SEP-00		EDXRF
			CR	120	ppm	LCS	07-SEP-00		EDXRF
			CU	65	ppm	LCS	07-SEP-00		EDXRF
			FE	1.7	%	LCS	07-SEP-00		EDXRF
			PB	74	ppm	LCS	07-SEP-00		EDXRF
			SE	<10	ppm	LCS	07-SEP-00		EDXRF
			ZN	58	ppm	LCS	07-SEP-00		EDXRF
L001364-007	21-AUG-00	ERP1-0008-211	AS	50	ppm	LCS	07-SEP-00		EDXRF
			CD	<10	ppm	LCS	07-SEP-00		EDXRF
			CR	<80	ppm	LCS	07-SEP-00		EDXRF
			CU	190	ppm	LCS	07-SEP-00		EDXRF
			FE	2.1	%	LCS	07-SEP-00		EDXRF
			PB	120	ppm	LCS	07-SEP-00		EDXRF
			SE	<10	ppm	LCS	07-SEP-00		EDXRF
			ZN	150	ppm	LCS	07-SEP-00		EDXRF
L001364-008	21-AUG-00	ERP1-0008-210	AS	12	ppm	LCS	07-SEP-00		EDXRF
			CD	<10	ppm	LCS	07-SEP-00		EDXRF
			CR	<80	ppm	LCS	07-SEP-00		EDXRF
			CU	56	ppm	LCS	07-SEP-00		EDXRF
			FE	2.0	%	LCS	07-SEP-00		EDXRF
			PB	56	ppm	LCS	07-SEP-00		EDXRF
			SE	<10	ppm	LCS	07-SEP-00		EDXRF
			ZN	90	ppm	LCS	07-SEP-00		EDXRF
L001364-009	21-AUG-00	ERP1-0008-215	AS	1200	ppm	LCS	07-SEP-00		EDXRF
			CD	32	ppm	LCS	07-SEP-00		EDXRF
			CR	280	ppm	LCS	07-SEP-00		EDXRF
			CU	15000	ppm	LCS	07-SEP-00		EDXRF
			FE	19	%	LCS	07-SEP-00		EDXRF
			PB	4200	ppm	LCS	07-SEP-00		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001364

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L001364-009	21-AUG-00	ERPI-0008-215	SE	<10	ppm	LCS	07-SEP-00		EDXRF
			ZN	15000	ppm	LCS	07-SEP-00		EDXRF
L001364-010	21-AUG-00	ERPI-0008-216	AS	5700	ppm	LCS	07-SEP-00		EDXRF
			CD	1300	ppm	LCS	07-SEP-00		EDXRF
			CR	<80	ppm	LCS	07-SEP-00		EDXRF
			CU	13000	ppm	LCS	07-SEP-00		EDXRF
			FE	2.1	%	LCS	07-SEP-00		EDXRF
			PB	5100	ppm	LCS	07-SEP-00		EDXRF
			SE	120	ppm	LCS	07-SEP-00		EDXRF
			ZN	15000	ppm	LCS	07-SEP-00		EDXRF
L001364-011	21-AUG-00	ERPI-0008-217	AS	3300	ppm	LCS	07-SEP-00		EDXRF
			CD	1100	ppm	LCS	07-SEP-00		EDXRF
			CR	200	ppm	LCS	07-SEP-00		EDXRF
			CU	76000	ppm	LCS	07-SEP-00		EDXRF
			FE	6.8	%	LCS	07-SEP-00		EDXRF
			PB	37000	ppm	LCS	07-SEP-00		EDXRF
			SE	140	ppm	LCS	07-SEP-00		EDXRF
			ZN	38000	ppm	LCS	07-SEP-00		EDXRF
L001364-012	21-AUG-00	ERPI-0008-218	AS	12000	ppm	LCS	07-SEP-00		EDXRF
			CD	2100	ppm	LCS	07-SEP-00		EDXRF
			CR	120	ppm	LCS	07-SEP-00		EDXRF
			CU	70000	ppm	LCS	07-SEP-00		EDXRF
			FE	3.6	%	LCS	07-SEP-00		EDXRF
			PH	6700	ppm	LCS	07-SEP-00		EDXRF
			SE	120	ppm	LCS	07-SEP-00		EDXRF
			ZN	52000	ppm	LCS	07-SEP-00		EDXRF

Approved

Reviewer

Hydrometrics Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
 P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CON-TAINERS		ANALYSIS										REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	STANDARD KRF As Cd Cr Cu Fe Pb Se Zn			
8-21-00	930			EPR1 0008-207	1-3AG									X			
	1000			EPR1 0008-214	1-3AG									X			
	1030			EPR1 0008-213	1-3AG									X			
	1045			EPR1 0008-205	1-BAG									X			
	1050			EPR1 0008-241	1-BAG									X			
	1100			EPR1 0008-212	1-3AG									X			
	1120			EPR1 0008-211	1-3AG									X			
	1300			EPR1 0008-210	1-3AG									X			
	1315			EPR1 0008-215	1-BAG									X			
	1330			EPR1 0008-216	1-3AG									X			
	1350			EPR1 0008-217	1-BAG									X			
	1400			EPR1 0008-218	1-3AG									X			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS							
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks				Other							
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time				Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits							
										<input type="checkbox"/> QA/QC standard mixing instructions							
										<input type="checkbox"/> Cover letter							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L001909

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOID
L001909-001	14-NOV-00	EPRI-0011-216	AS	5900	ppm	LCS	05-DEC-00	EDXRF
			CD	2400	ppm	LCS	05-DEC-00	EDXRF
			CR	140	ppm	LCS	05-DEC-00	EDXRF
			CU	24000	ppm	LCS	05-DEC-00	EDXRF
			FE	2.6	%	LCS	05-DEC-00	EDXRF
			PB	3300	ppm	LCS	05-DEC-00	EDXRF
			SE	89	ppm	LCS	05-DEC-00	EDXRF
			ZN	25000	ppm	LCS	05-DEC-00	EDXRF
			AS	2900	ppm	LCS	05-DEC-00	EDXRF
			CD	1600	ppm	LCS	05-DEC-00	EDXRF
L001909-002	14-NOV-00	EPRI-0011-217	CR	270	ppm	LCS	05-DEC-00	EDXRF
			CU	49000	ppm	LCS	05-DEC-00	EDXRF
			FE	5.3	%	LCS	05-DEC-00	EDXRF
			PB	28000	ppm	LCS	05-DEC-00	EDXRF
			SE	220	ppm	LCS	05-DEC-00	EDXRF
			ZN	31000	ppm	LCS	05-DEC-00	EDXRF
			AS	2400	ppm	LCS	05-DEC-00	EDXRF
			CD	1300	ppm	LCS	05-DEC-00	EDXRF
			CR	180	ppm	LCS	05-DEC-00	EDXRF
			CU	20000	ppm	LCS	05-DEC-00	EDXRF
L001909-003	14-NOV-00	EPRI-0011-241	FE	3.9	%	LCS	05-DEC-00	EDXRF
			PB	16000	ppm	LCS	05-DEC-00	EDXRF
			SE	140	ppm	LCS	05-DEC-00	EDXRF
			ZN	13000	ppm	LCS	05-DEC-00	EDXRF
			AS	12000	ppm	LCS	05-DEC-00	EDXRF
			CD	3200	ppm	LCS	05-DEC-00	EDXRF
			CR	120	ppm	LCS	05-DEC-00	EDXRF
			CU	99000	ppm	LCS	05-DEC-00	EDXRF
			FE	4.5	%	LCS	05-DEC-00	EDXRF
			PB	8200	ppm	LCS	05-DEC-00	EDXRF
L001909-004	14-NOV-00	EPRI-0011-218	SE	190	ppm	LCS	05-DEC-00	EDXRF
			ZN	42000	ppm	LCS	05-DEC-00	EDXRF
			AS	970	ppm	LCS	05-DEC-00	EDXRF
			CD	89	ppm	LCS	05-DEC-00	EDXRF
			CR	230	ppm	LCS	05-DEC-00	EDXRF
			AS	970	ppm	LCS	05-DEC-00	EDXRF
			CD	89	ppm	LCS	05-DEC-00	EDXRF
			CR	230	ppm	LCS	05-DEC-00	EDXRF
			AS	970	ppm	LCS	05-DEC-00	EDXRF
			CD	89	ppm	LCS	05-DEC-00	EDXRF
L001909-005	14-NOV-00	EPRI-0011-215	CR	230	ppm	LCS	05-DEC-00	EDXRF
			AS	970	ppm	LCS	05-DEC-00	EDXRF
			CD	89	ppm	LCS	05-DEC-00	EDXRF
			CR	230	ppm	LCS	05-DEC-00	EDXRF
			AS	970	ppm	LCS	05-DEC-00	EDXRF
			CD	89	ppm	LCS	05-DEC-00	EDXRF
			CR	230	ppm	LCS	05-DEC-00	EDXRF
			AS	970	ppm	LCS	05-DEC-00	EDXRF
			CD	89	ppm	LCS	05-DEC-00	EDXRF
			CR	230	ppm	LCS	05-DEC-00	EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L001909

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001909-005	14-NOV-00	EPRI-0011-215							
			CU	14000	ppm	LCS	05-DEC-00		EDXRF
			FE	19	%	LCS	05-DEC-00		EDXRF
			PB	4900	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	16000	ppm	LCS	05-DEC-00		EDXRF
L001909-006	15-NOV-00	EPRI-0011-207							
			AS	23	ppm	LCS	05-DEC-00		EDXRF
			CD	18	ppm	LCS	05-DEC-00		EDXRF
			CR	<80	ppm	LCS	05-DEC-00		EDXRF
			CU	230	ppm	LCS	05-DEC-00		EDXRF
			FE	1.9	%	LCS	05-DEC-00		EDXRF
			PB	140	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	210	ppm	LCS	05-DEC-00		EDXRF
L001909-007	15-NOV-00	EPRI-0011-214							
			AS	33	ppm	LCS	05-DEC-00		EDXRF
			CD	<10	ppm	LCS	05-DEC-00		EDXRF
			CR	<80	ppm	LCS	05-DEC-00		EDXRF
			CU	80	ppm	LCS	05-DEC-00		EDXRF
			FE	1.6	%	LCS	05-DEC-00		EDXRF
			PB	100	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	100	ppm	LCS	05-DEC-00		EDXRF
L001909-008	15-NOV-00	EPRI-0011-213							
			AS	<10	ppm	LCS	05-DEC-00		EDXRF
			CD	<10	ppm	LCS	05-DEC-00		EDXRF
			CR	89	ppm	LCS	05-DEC-00		EDXRF
			CU	41	ppm	LCS	05-DEC-00		EDXRF
			FE	2.0	%	LCS	05-DEC-00		EDXRF
			PB	54	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	67	ppm	LCS	05-DEC-00		EDXRF
L001909-009	15-NOV-00	EPRI-0011-205							
			AS	<10	ppm	LCS	05-DEC-00		EDXRF
			CD	<10	ppm	LCS	05-DEC-00		EDXRF
			CR	<80	ppm	LCS	05-DEC-00		EDXRF
			CU	<20	ppm	LCS	05-DEC-00		EDXRF
			FE	1.3	%	LCS	05-DEC-00		EDXRF
			PB	58	ppm	LCS	05-DEC-00		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L001909

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001909-009	15-NOV-00	EPRI-0011-205	SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	33	ppm	LCS	05-DEC-00		EDXRF
L001909-010	15-NOV-00	EPRI-0011-212	AS	<10	ppm	LCS	05-DEC-00		EDXRF
			CD	<10	ppm	LCS	05-DEC-00		EDXRF
			CR	110	ppm	LCS	05-DEC-00		EDXRF
			CU	46	ppm	LCS	05-DEC-00		EDXRF
			FE	2.2	%	LCS	05-DEC-00		EDXRF
			PB	42	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	51	ppm	LCS	05-DEC-00		EDXRF
L001909-011	15-NOV-00	EPRI-0011-211	AS	28	ppm	LCS	05-DEC-00		EDXRF
			CD	<10	ppm	LCS	05-DEC-00		EDXRF
			CR	170	ppm	LCS	05-DEC-00		EDXRF
			CU	<20	ppm	LCS	05-DEC-00		EDXRF
			FE	2.2	%	LCS	05-DEC-00		EDXRF
			PB	39	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	37	ppm	LCS	05-DEC-00		EDXRF
L001909-012	15-NOV-00	EPRI-0011-244	AS	<10	ppm	LCS	05-DEC-00		EDXRF
			CD	<10	ppm	LCS	05-DEC-00		EDXRF
			CR	140	ppm	LCS	05-DEC-00		EDXRF
			CU	38	ppm	LCS	05-DEC-00		EDXRF
			FE	2.1	%	LCS	05-DEC-00		EDXRF
			PB	39	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	20	ppm	LCS	05-DEC-00		EDXRF
L001909-013	15-NOV-00	EPRI-0011-210	AS	15	ppm	LCS	05-DEC-00		EDXRF
			CD	<10	ppm	LCS	05-DEC-00		EDXRF
			CR	<80	ppm	LCS	05-DEC-00		EDXRF
			CU	190	ppm	LCS	05-DEC-00		EDXRF
			FE	2.2	%	LCS	05-DEC-00		EDXRF
			PB	280	ppm	LCS	05-DEC-00		EDXRF
			SE	<10	ppm	LCS	05-DEC-00		EDXRF
			ZN	210	ppm	LCS	05-DEC-00		EDXRF

CHAIN OF CUSTODY RECORD

Hydrometronics Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 644-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO.	COMMONS UF/RAW	NUTRIENTS UF/H ₂ SO ₄	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTEX	TPH	XRF STANDARD	OTHER			
11/4/00	1325			EPRI-0011-216	1-BAG									X				
	1340			EPRI-0011-217	1-BAG									X				
	1345			EPRI-0011-241	1-BAG									X				
	1405			EPRI-0011-218	1-BAG									X				
	1430			EPRI-0011-215	1-BAG									X				
11/5/00	845			EPRI-0011-207	1-BAG									X				
	900			EPRI-0011-214	1-BAG									X				
	920			EPRI-0011-213	1-BAG									X				
	940			EPRI-0011-205	1-BAG									X				
	950			EPRI-0011-212	1-BAG									X				
	1010			EPRI-0011-211	1-BAG									X				
	1015			EPRI-0011-244	1-BAG									X				
	1030			EPRI-0011-210	1-BAG									X				
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab										P.O. #	Shipped via: Bus, FedEx, UPS	
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks											Other	
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time										Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits	<input type="checkbox"/> QA/QC standard mixing instructions	<input checked="" type="checkbox"/> Cover letter

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L010274

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010274-001	27-FEB-01	EPRI-0102-216	AS	1420	ppm	MEC	12-MAR-01		EDXRF
			CD	533	ppm	MEC	12-MAR-01		EDXRF
			CR	<80	ppm	MEC	12-MAR-01		EDXRF
			CU	4790	ppm	MEC	12-MAR-01		EDXRF
			FE	1.28	%	MEC	12-MAR-01		EDXRF
			PB	2680	ppm	MEC	12-MAR-01		EDXRF
			SE	33	ppm	MEC	12-MAR-01		EDXRF
L010274-002	27-FEB-01	EPRI-0102-245	ZN	3760	ppm	MEC	12-MAR-01		EDXRF
			AS	2080	ppm	MEC	12-MAR-01		EDXRF
			CD	895	ppm	MEC	12-MAR-01		EDXRF
			CR	105	ppm	MEC	12-MAR-01		EDXRF
			CU	6670	ppm	MEC	12-MAR-01		EDXRF
			FE	2.01	%	MEC	12-MAR-01		EDXRF
			PB	4780	ppm	MEC	12-MAR-01		EDXRF
L010274-003	27-FEB-01	EPRI-0102-217	SE	81	ppm	MEC	12-MAR-01		EDXRF
			ZN	5990	ppm	MEC	12-MAR-01		EDXRF
			AS	3590	ppm	MEC	12-MAR-01		EDXRF
			CD	828	ppm	MEC	12-MAR-01		EDXRF
			CR	157	ppm	MEC	12-MAR-01		EDXRF
			CU	39800	ppm	MEC	12-MAR-01		EDXRF
			FE	4.49	%	MEC	12-MAR-01		EDXRF
L010274-004	27-FEB-01	EPRI-0102-218	PB	38400	ppm	MEC	12-MAR-01		EDXRF
			SE	162	ppm	MEC	12-MAR-01		EDXRF
			ZN	28000	ppm	MEC	12-MAR-01		EDXRF
			AS	4150	ppm	MEC	12-MAR-01		EDXRF
			CD	1110	ppm	MEC	12-MAR-01		EDXRF
			CR	86	ppm	MEC	12-MAR-01		EDXRF
			CU	76200	ppm	MEC	12-MAR-01		EDXRF
L010274-005	27-FEB-01	EPRI-0102-215	FE	2.00	%	MEC	12-MAR-01		EDXRF
			PB	6790	ppm	MEC	12-MAR-01		EDXRF
			SE	340	ppm	MEC	12-MAR-01		EDXRF
			ZN	19200	ppm	MEC	12-MAR-01		EDXRF
			AS	846	ppm	MEC	12-MAR-01		EDXRF
			CD	17	ppm	MEC	12-MAR-01		EDXRF
			CR	124	ppm	MEC	12-MAR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L010274

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DMS METHOD
L010274-005	27-FEB-01	EPRI-0102-215	CU	6730	ppm	MEC	12-MAR-01	EDXRF
			FE	28.2	%	MEC	12-MAR-01	EDXRF
			PB	3330	ppm	MEC	12-MAR-01	EDXRF
			SE	<10	ppm	MEC	12-MAR-01	EDXRF
			ZN	19600	ppm	MEC	12-MAR-01	EDXRF
L010274-006	28-FEB-01	EPRI-0102-210	AS	44	ppm	MEC	12-MAR-01	EDXRF
			CD	14	ppm	MEC	12-MAR-01	EDXRF
			CK	146	ppm	MEC	12-MAR-01	EDXRF
			CU	119	ppm	MEC	12-MAR-01	EDXRF
			FE	1.98	%	MEC	12-MAR-01	EDXRF
			PB	172	ppm	MEC	12-MAR-01	EDXRF
			SE	<10	ppm	MEC	12-MAR-01	EDXRF
			ZN	210	ppm	MEC	12-MAR-01	EDXRF
L010274-007	28-FEB-01	EPRI-0102-207	AS	30	ppm	MEC	12-MAR-01	EDXRF
			CD	<10	ppm	MEC	12-MAR-01	EDXRF
			CR	<80	ppm	MEC	12-MAR-01	EDXRF
			CU	53	ppm	MEC	12-MAR-01	EDXRF
			FE	1.48	%	MEC	12-MAR-01	EDXRF
			PB	63	ppm	MEC	12-MAR-01	EDXRF
			SE	<10	ppm	MEC	12-MAR-01	EDXRF
			ZN	87	ppm	MEC	12-MAR-01	EDXRF
L010274-008	28-FEB-01	EPRI-0102-246	AS	25	ppm	MEC	12-MAR-01	EDXRF
			CD	<10	ppm	MEC	12-MAR-01	EDXRF
			CR	98	ppm	MEC	12-MAR-01	EDXRF
			CU	72	ppm	MEC	12-MAR-01	EDXRF
			FE	1.26	%	MEC	12-MAR-01	EDXRF
			PB	63	ppm	MEC	12-MAR-01	EDXRF
			SE	<10	ppm	MEC	12-MAR-01	EDXRF
			ZN	57	ppm	MEC	12-MAR-01	EDXRF
L010274-009	28-FEB-01	EPRI-0102-214	AS	20	ppm	MEC	12-MAR-01	EDXRF
			CD	<10	ppm	MEC	12-MAR-01	EDXRF
			CR	<80	ppm	MEC	12-MAR-01	EDXRF
			CU	74	ppm	MEC	12-MAR-01	EDXRF
			FE	1.16	%	MEC	12-MAR-01	EDXRF
			PB	58	ppm	MEC	12-MAR-01	EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L010274

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010274-009	28-FEB-01	EPRI-0102-214	SE	<10	ppm	MEC	12-MAR-01		EDXRF
			ZN	58	ppm	MEC	12-MAR-01		EDXRF
L010274-010	28-FEB-01	EPRI-0102-213	AS	33	ppm	MEC	12-MAR-01		EDXRF
			CD	<10	ppm	MEC	12-MAR-01		EDXRF
			CR	284	ppm	MEC	12-MAR-01		EDXRF
			CU	73	ppm	MEC	12-MAR-01		EDXRF
			FE	1.72	%	MEC	12-MAR-01		EDXRF
			PB	73	ppm	MEC	12-MAR-01		EDXRF
			SE	<10	ppm	MEC	12-MAR-01		EDXRF
			ZN	72	ppm	MEC	12-MAR-01		EDXRF
L010274-011	28-FEB-01	EPRI-0102-205	AS	<10	ppm	MEC	12-MAR-01		EDXRF
			CD	<10	ppm	MEC	12-MAR-01		EDXRF
			CR	<80	ppm	MEC	12-MAR-01		EDXRF
			CU	33	ppm	MEC	12-MAR-01		EDXRF
			FE	0.60	%	MEC	12-MAR-01		EDXRF
			PB	25	ppm	MEC	12-MAR-01		EDXRF
			SE	<10	ppm	MEC	12-MAR-01		EDXRF
			ZN	<10	ppm	MEC	12-MAR-01		EDXRF
L010274-012	28-FEB-01	EPRI-0102-212	AS	36	ppm	MEC	12-MAR-01		EDXRF
			CD	<10	ppm	MEC	12-MAR-01		EDXRF
			CR	167	ppm	MEC	12-MAR-01		EDXRF
			CU	65	ppm	MEC	12-MAR-01		EDXRF
			FE	1.63	%	MEC	12-MAR-01		EDXRF
			PB	65	ppm	MEC	12-MAR-01		EDXRF
			SE	<10	ppm	MEC	12-MAR-01		EDXRF
			ZN	92	ppm	MEC	12-MAR-01		EDXRF
L010274-013	28-FEB-01	EPRI-0102-211	AS	<10	ppm	MEC	12-MAR-01		EDXRF
			CD	<10	ppm	MEC	12-MAR-01		EDXRF
			CR	<80	ppm	MEC	12-MAR-01		EDXRF
			CU	<20	ppm	MEC	12-MAR-01		EDXRF
			FE	0.70	%	MEC	12-MAR-01		EDXRF
			PB	20	ppm	MEC	12-MAR-01		EDXRF
			SE	<10	ppm	MEC	12-MAR-01		EDXRF
			ZN	21	ppm	MEC	12-MAR-01		EDXRF

Hydrometric, Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJECT NO.		PROJECT NAME		NO. OF CON-TAINERS		ANALYSIS								REMARKS			
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO.	OF	CON-TAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	REMARKS	
12/20/01	11:00			APR1 C102-216	1-BAG												
	11:05			APR1 C102-215	1-BAG												
	11:10			APR1 C102-217	1-BAG												
	11:15			APR1 C102-218	1-BAG												
	13:15			APR1 C102-215	1-BAG												
12/20/01	8:35			APR1 C102-210	1-BAG												
	8:55			APR1 C102-207	1-BAG												
	9:00			APR1 C102-216	1-BAG												
	9:30			APR1 C102-214	1-BAG												
	9:45			APR1 C102-213	1-BAG												
	10:05			APR1 C102-205	1-BAG												
	10:15			APR1 C102-212	1-BAG												
	10:35			APR1 C102-211	1-BAG												
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		Air Bill #			
[Signature]		2/28/01 1600		[Signature]		TX - SLC, UT											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks											
[Signature]				[Signature]													
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Other									
[Signature]				[Signature]		3-20-01 0915											

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010734

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD
L010734-001	17-MAY-01	EPRI-0105-207	AS	20	ppm	LCS	05-JUN-01	EDXRF
			CD	13	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF
			CU	59	ppm	LCS	05-JUN-01	EDXRF
			FE	1.5	%	LCS	05-JUN-01	EDXRF
			PB	40	ppm	LCS	05-JUN-01	EDXRF
			SE	<20	ppm	LCS	05-JUN-01	EDXRF
			ZN	14	ppm	LCS	05-JUN-01	EDXRF
			AS	30	ppm	LCS	05-JUN-01	EDXRF
			CD	<10	ppm	LCS	05-JUN-01	EDXRF
L010734-002	17-MAY-01	EPRI-0105-214	CR	<80	ppm	LCS	05-JUN-01	EDXRF
			CU	65	ppm	LCS	05-JUN-01	EDXRF
			FE	1.7	%	LCS	05-JUN-01	EDXRF
			PB	66	ppm	LCS	05-JUN-01	EDXRF
			SE	<20	ppm	LCS	05-JUN-01	EDXRF
			ZN	13	ppm	LCS	05-JUN-01	EDXRF
			AS	28	ppm	LCS	05-JUN-01	EDXRF
			CD	<10	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF
			CU	49	ppm	LCS	05-JUN-01	EDXRF
L010734-003	17-MAY-01	EPRI-0105-249	FE	1.7	%	LCS	05-JUN-01	EDXRF
			PB	59	ppm	LCS	05-JUN-01	EDXRF
			SE	<20	ppm	LCS	05-JUN-01	EDXRF
			ZN	<10	ppm	LCS	05-JUN-01	EDXRF
			AS	22	ppm	LCS	05-JUN-01	EDXRF
			CD	11	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF
			CU	52	ppm	LCS	05-JUN-01	EDXRF
			FE	1.7	%	LCS	05-JUN-01	EDXRF
			PB	59	ppm	LCS	05-JUN-01	EDXRF
L010734-004	17-MAY-01	EPRI-0105-213	SE	<20	ppm	LCS	05-JUN-01	EDXRF
			ZN	14	ppm	LCS	05-JUN-01	EDXRF
			AS	19	ppm	LCS	05-JUN-01	EDXRF
			CD	11	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF
			AS	19	ppm	LCS	05-JUN-01	EDXRF
			CD	11	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF
			AS	19	ppm	LCS	05-JUN-01	EDXRF
			CD	11	ppm	LCS	05-JUN-01	EDXRF
L010734-005	17-MAY-01	EPRI-0105-205	CR	<80	ppm	LCS	05-JUN-01	EDXRF
			AS	19	ppm	LCS	05-JUN-01	EDXRF
			CD	11	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF
			AS	19	ppm	LCS	05-JUN-01	EDXRF
			CD	11	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF
			AS	19	ppm	LCS	05-JUN-01	EDXRF
			CD	11	ppm	LCS	05-JUN-01	EDXRF
			CR	<80	ppm	LCS	05-JUN-01	EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L010734

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
010734-005	17-MAY-01	EPRI-0105-205	CU	48	ppm	LCS	05-JUN-01		EDXRF
			FE	1.3	%	LCS	05-JUN-01		EDXRF
			PB	53	ppm	LCS	05-JUN-01		EDXRF
			SE	<20	ppm	LCS	05-JUN-01		EDXRF
			ZN	<10	ppm	LCS	05-JUN-01		EDXRF
L010734-006	17-MAY-01	EPRI-0105-212	AS	26	ppm	LCS	05-JUN-01		EDXRF
			CD	<10	ppm	LCS	05-JUN-01		EDXRF
			CR	<80	ppm	LCS	05-JUN-01		EDXRF
			CU	60	ppm	LCS	05-JUN-01		EDXRF
			FE	1.6	%	LCS	05-JUN-01		EDXRF
			PB	56	ppm	LCS	05-JUN-01		EDXRF
			SE	<20	ppm	LCS	05-JUN-01		EDXRF
			ZN	<10	ppm	LCS	05-JUN-01		EDXRF
L010734-007	17-MAY-01	EPRI-0105-211	AS	35	ppm	LCS	05-JUN-01		EDXRF
			CD	<10	ppm	LCS	05-JUN-01		EDXRF
			CR	<80	ppm	LCS	05-JUN-01		EDXRF
			CU	53	ppm	LCS	05-JUN-01		EDXRF
			FE	1.8	%	LCS	05-JUN-01		EDXRF
			PB	53	ppm	LCS	05-JUN-01		EDXRF
			SE	<20	ppm	LCS	05-JUN-01		EDXRF
			ZN	<10	ppm	LCS	05-JUN-01		EDXRF
L010734-008	17-MAY-01	EPRI-0105-210	AS	14	ppm	LCS	05-JUN-01		EDXRF
			CD	11	ppm	LCS	05-JUN-01		EDXRF
			CR	<80	ppm	LCS	05-JUN-01		EDXRF
			CU	59	ppm	LCS	05-JUN-01		EDXRF
			FE	1.5	%	LCS	05-JUN-01		EDXRF
			PB	37	ppm	LCS	05-JUN-01		EDXRF
			SE	<20	ppm	LCS	05-JUN-01		EDXRF
			ZN	30	ppm	LCS	05-JUN-01		EDXRF
L010734-009	17-MAY-01	EPRI-0105-215	AS	1700	ppm	LCS	05-JUN-01		EDXRF
			CD	43	ppm	LCS	05-JUN-01		EDXRF
			CR	730	ppm	LCS	05-JUN-01		EDXRF
			CU	9500	ppm	LCS	05-JUN-01		EDXRF
			FE	31	%	LCS	05-JUN-01		EDXRF
			PB	1500	ppm	LCS	05-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010734

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	SOLD	
L010734-009	17-MAY-01	EPRI-0105-215	SE	27	ppm	LCS	05-JUN-01		EDXRF
			ZN	16000	ppm	LCS	05-JUN-01		EDXRF
L010734-010	17-MAY-01	EPRI-0105-216	AS	5000	ppm	LCS	05-JUN-01		EDXRF
			CD	2600	ppm	LCS	05-JUN-01		EDXRF
			CR	91	ppm	LCS	05-JUN-01		EDXRF
			CU	10000	ppm	LCS	05-JUN-01		EDXRF
			FE	2.4	%	LCS	05-JUN-01		EDXRF
			PB	8000	ppm	LCS	05-JUN-01		EDXRF
			SE	140	ppm	LCS	05-JUN-01		EDXRF
			ZN	12000	ppm	LCS	05-JUN-01		EDXRF
			AS	3100	ppm	LCS	05-JUN-01		EDXRF
			CD	1100	ppm	LCS	05-JUN-01		EDXRF
L010734-011	17-MAY-01	EPRI-0105-217	CR	200	ppm	LCS	05-JUN-01		EDXRF
			CU	54000	ppm	LCS	05-JUN-01		EDXRF
			FE	8.7	%	LCS	05-JUN-01		EDXRF
			PB	73000	ppm	LCS	05-JUN-01		EDXRF
			SE	170	ppm	LCS	05-JUN-01		EDXRF
			ZN	26000	ppm	LCS	05-JUN-01		EDXRF
			AS	5400	ppm	LCS	05-JUN-01		EDXRF
			CD	2100	ppm	LCS	05-JUN-01		EDXRF
			CR	210	ppm	LCS	05-JUN-01		EDXRF
			CU	63000	ppm	LCS	05-JUN-01		EDXRF
L010734-012	17-MAY-01	EPRI-0105-218	FE	4.5	%	LCS	05-JUN-01		EDXRF
			PB	15000	ppm	LCS	05-JUN-01		EDXRF
			SE	150	ppm	LCS	05-JUN-01		EDXRF
			ZN	20000	ppm	LCS	05-JUN-01		EDXRF
			AS	5400	ppm	LCS	05-JUN-01		EDXRF
			CD	2100	ppm	LCS	05-JUN-01		EDXRF
			CR	210	ppm	LCS	05-JUN-01		EDXRF
			CU	63000	ppm	LCS	05-JUN-01		EDXRF

Approved

Reviewer

[illegible]

F.O. BOX 60810

[illegible]

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME														
1296VZ	ASARC-O-EP														
SAMPLERS: (Signature) Douglas W. Shaw															
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CON- TAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF STANDARDS	REMARKS
3-17-01	810			EPR1-DIOS-Z17	1 BAG										
	830			EPR1-DIOS-Z14	1 BAG										
	835			EPR1-DIOS-Z19	1 BAG										
	910			EPR1-DIOS-Z13	1 BAG										
	920			EPR1-DIOS-Z05	1 BAG										
	940			EPR1-DIOS-Z12	1 BAG										
	1000			EPR1-DIOS-Z11	1 BAG										
	1020			EPR1-DIOS-Z10	1 BAG										
	1045			EPR1-DIOS-Z15	1 BAG										
	1055			EPR1-DIOS-Z16	1 BAG										
	1105			EPR1-DIOS-Z17	1 BAG										
	1110			EPR1-DIOS-Z18	1 BAG										
						Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____						
Relinquished (Signature) [Signature]						Date/Time	Remarks								
Relinquished (Signature)						Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____								
Return results & electronic copy to:						Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined									

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011129

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	TEST METHOD
L011129-001	31-JUL-01	EPRI-0108-219	AS	21	ppm	LCS	15-AUG-01		EDXRF
			CD	<10	ppm	LCS	15-AUG-01		EDXRF
			CR	<80	ppm	LCS	15-AUG-01		EDXRF
			CU	270	ppm	LCS	15-AUG-01		EDXRF
			FE	1.5	%	LCS	15-AUG-01		EDXRF
			PB	130	ppm	LCS	15-AUG-01		EDXRF
			SE	<20	ppm	LCS	15-AUG-01		EDXRF
			ZN	65	ppm	LCS	15-AUG-01		EDXRF
L011129-002	31-JUL-01	EPRI-0108-226	AS	12	ppm	LCS	15-AUG-01		EDXRF
			CD	<10	ppm	LCS	15-AUG-01		EDXRF
			CR	<80	ppm	LCS	15-AUG-01		EDXRF
			CU	86	ppm	LCS	15-AUG-01		EDXRF
			FE	1.1	%	LCS	15-AUG-01		EDXRF
			PB	50	ppm	LCS	15-AUG-01		EDXRF
			SE	<20	ppm	LCS	15-AUG-01		EDXRF
			ZN	27	ppm	LCS	15-AUG-01		EDXRF
L011129-003	31-JUL-01	EPRI-0108-225	AS	26	ppm	LCS	15-AUG-01		EDXRF
			CD	12	ppm	LCS	15-AUG-01		EDXRF
			CR	<80	ppm	LCS	15-AUG-01		EDXRF
			CU	92	ppm	LCS	15-AUG-01		EDXRF
			FE	1.4	%	LCS	15-AUG-01		EDXRF
			PB	51	ppm	LCS	15-AUG-01		EDXRF
			SE	<20	ppm	LCS	15-AUG-01		EDXRF
			ZN	34	ppm	LCS	15-AUG-01		EDXRF
L011129-004	31-JUL-01	EPRI-0108-224	AS	24	ppm	LCS	15-AUG-01		EDXRF
			CD	<10	ppm	LCS	15-AUG-01		EDXRF
			CR	<80	ppm	LCS	15-AUG-01		EDXRF
			CU	120	ppm	LCS	15-AUG-01		EDXRF
			FE	1.1	%	LCS	15-AUG-01		EDXRF
			PB	120	ppm	LCS	15-AUG-01		EDXRF
			SE	<20	ppm	LCS	15-AUG-01		EDXRF
			ZN	170	ppm	LCS	15-AUG-01		EDXRF
L011129-005	31-JUL-01	EPRI-0108-221	AS	16	ppm	LCS	15-AUG-01		EDXRF
			CD	<10	ppm	LCS	15-AUG-01		EDXRF
			CR	<80	ppm	LCS	15-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011129

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L011129-005	31-JUL-01	EPRI-0108-221	CU	65	ppm	LCS	15-AUG-01	EDXRF
			FE	1.4	%	LCS	15-AUG-01	EDXRF
			PB	63	ppm	LCS	15-AUG-01	EDXRF
			SE	<20	ppm	LCS	15-AUG-01	EDXRF
			ZN	39	ppm	LCS	15-AUG-01	EDXRF
L011129-006	31-JUL-01	EPRI-0108-255	AS	22	ppm	LCS	15-AUG-01	EDXRF
			CD	14	ppm	LCS	15-AUG-01	EDXRF
			CR	<80	ppm	LCS	15-AUG-01	EDXRF
			CU	88	ppm	LCS	15-AUG-01	EDXRF
			FE	1.3	%	LCS	15-AUG-01	EDXRF
			PB	60	ppm	LCS	15-AUG-01	EDXRF
			SE	<20	ppm	LCS	15-AUG-01	EDXRF
			ZN	<10	ppm	LCS	15-AUG-01	EDXRF
L011129-007	31-JUL-01	EPRI-0108-228	AS	32	ppm	LCS	15-AUG-01	EDXRF
			CD	<10	ppm	LCS	15-AUG-01	EDXRF
			CR	<80	ppm	LCS	15-AUG-01	EDXRF
			CU	150	ppm	LCS	15-AUG-01	EDXRF
			FE	1.6	%	LCS	15-AUG-01	EDXRF
			PB	150	ppm	LCS	15-AUG-01	EDXRF
			SE	<20	ppm	LCS	15-AUG-01	EDXRF
			ZN	95	ppm	LCS	15-AUG-01	EDXRF
L011129-008	31-JUL-01	EPRI-0108-257	AS	32	ppm	LCS	15-AUG-01	EDXRF
			CD	13	ppm	LCS	15-AUG-01	EDXRF
			CR	<80	ppm	LCS	15-AUG-01	EDXRF
			CU	140	ppm	LCS	15-AUG-01	EDXRF
			FE	1.7	%	LCS	15-AUG-01	EDXRF
			PB	160	ppm	LCS	15-AUG-01	EDXRF
			SE	<20	ppm	LCS	15-AUG-01	EDXRF
			ZN	91	ppm	LCS	15-AUG-01	EDXRF
L011129-009	31-JUL-01	EPRI-0108-227	AS	20	ppm	LCS	15-AUG-01	EDXRF
			CD	<10	ppm	LCS	15-AUG-01	EDXRF
			CR	<80	ppm	LCS	15-AUG-01	EDXRF
			CU	160	ppm	LCS	15-AUG-01	EDXRF
			FE	1.3	%	LCS	15-AUG-01	EDXRF
			PB	68	ppm	LCS	15-AUG-01	EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L011129

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011129-009	31-JUL-01	SPRI-0108-227	SE	<20	ppm	LCS	15-AUG-01		EDXRF
			ZN	36	ppm	LCS	15-AUG-01		EDXRF

Approved

Reviewer

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS								REMARKS	
1246 VZ ASARCO - EL PASO, TX				1 BAG											
SAMPLERS: (Signature)		G LEVIN													
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTEX	TPH	XRF (STANDARD)			
7/31/01	0910			EPRI - 0108 - Z19								X			
	1015			EPRI - 0108 - Z26								X			
	1110			EPRI - 0108 - Z25								X			
	1440			EPRI - 0108 - Z24								X			
	1620			EPRI - 0108 - Z21								X			
	1630			EPRI - 0108 - Z55								X			
8/1/01	0910			EPRI - 0108 - Z28								X			
	0915			EPRI - 0108 - Z57								X			
	0945			EPRI - 0108 - Z27								X			
/															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
[Signature]		8/2/01 1600		[Signature]		SALT LAKE				Other					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
[Signature]				[Signature]											
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:							
[Signature]				[Signature]		8-3-01 1100		<input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other							

SECTION G-2

PHASE III SOIL ANALYTICAL RESULTS

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010370

RECEIVED APR 16 2001

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010370-001	20-FEB-01	IA15-8B	AS	20000	ppm	MEC	03-APR-01		EDXRF
			CD	890	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	30000	ppm	MEC	03-APR-01		EDXRF
			FE	4.9	%	MEC	03-APR-01		EDXRF
			PB	3700	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	4100	ppm	MEC	03-APR-01		EDXRF
			AS	900	ppm	MEC	03-APR-01		EDXRF
			CD	320	ppm	MEC	03-APR-01		EDXRF
L010370-002	20-FEB-01	IA15-8C	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	38000	ppm	MEC	03-APR-01		EDXRF
			FE	1.0	%	MEC	03-APR-01		EDXRF
			PB	520	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	3700	ppm	MEC	03-APR-01		EDXRF
			AS	1900	ppm	MEC	03-APR-01		EDXRF
			CD	310	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	19000	ppm	MEC	03-APR-01		EDXRF
L010370-003	20-FEB-01	IA15-8E	FE	1.8	%	MEC	03-APR-01		EDXRF
			PB	1000	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	3900	ppm	MEC	03-APR-01		EDXRF
			AS	25	ppm	MEC	03-APR-01		EDXRF
			CD	39	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	200	ppm	MEC	03-APR-01		EDXRF
			FE	0.66	%	MEC	03-APR-01		EDXRF
			PB	45	ppm	MEC	03-APR-01		EDXRF
L010370-004	20-FEB-01	IA15-8F	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	880	ppm	MEC	03-APR-01		EDXRF
			AS	25	ppm	MEC	03-APR-01		EDXRF
			CD	39	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	200	ppm	MEC	03-APR-01		EDXRF
			FE	0.66	%	MEC	03-APR-01		EDXRF
			PB	45	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	880	ppm	MEC	03-APR-01		EDXRF
L010370-005	20-FEB-01	IA15-12C	AS	66	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010370

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	TEST METHOD
L010370-005	20-FEB-01	IA15-12C	CU	430	ppm	MEC	03-APR-01		EDXRF
			FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	790	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	660	ppm	MEC	03-APR-01		EDXRF
L010370-006	20-FEB-01	IA15-12D	AS	22	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	37	ppm	MEC	03-APR-01		EDXRF
			FE	0.72	%	MEC	03-APR-01		EDXRF
			PB	32	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	17	ppm	MEC	03-APR-01		EDXRF
L010370-007	20-FEB-01	IA15-12E1	AS	17	ppm	MEC	03-APR-01		EDXRF
			CD	18	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	37	ppm	MEC	03-APR-01		EDXRF
			FE	0.72	%	MEC	03-APR-01		EDXRF
			PB	170	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	220	ppm	MEC	03-APR-01		EDXRF
L010370-008	20-FEB-01	IA15-12E2	AS	29	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	130	ppm	MEC	03-APR-01		EDXRF
			FE	0.86	%	MEC	03-APR-01		EDXRF
			PB	280	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	290	ppm	MEC	03-APR-01		EDXRF
L010370-009	20-FEB-01	IA15-12F	AS	19	ppm	MEC	03-APR-01		EDXRF
			CD	130	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	39	ppm	MEC	03-APR-01		EDXRF
			FE	0.74	%	MEC	03-APR-01		EDXRF
			PB	51	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

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El Paso

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Batch No: L010370

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010370-009	20-FEB-01	IA15-12F	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	1300	ppm	MEC	03-APR-01		EDXRF
L010370-010	01-MAR-01	IA17-1A1	AS	250	ppm	MEC	03-APR-01		EDXRF
			CD	78	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.90	%	MEC	03-APR-01		EDXRF
			PB	47	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	280	ppm	MEC	03-APR-01		EDXRF
L010370-011	01-MAR-01	IA17-1A2	AS	190	ppm	MEC	03-APR-01		EDXRF
			CD	61	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	39	ppm	MEC	03-APR-01		EDXRF
			FE	0.65	%	MEC	03-APR-01		EDXRF
			PB	46	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	250	ppm	MEC	03-APR-01		EDXRF
L010370-012	01-MAR-01	IA17-1B	AS	61	ppm	MEC	03-APR-01		EDXRF
			CD	35	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.85	%	MEC	03-APR-01		EDXRF
			PB	39	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	110	ppm	MEC	03-APR-01		EDXRF
L010370-013	01-MAR-01	IA17-2A	AS	430	ppm	MEC	03-APR-01		EDXRF
			CD	20	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	94	ppm	MEC	03-APR-01		EDXRF
			FE	2.2	%	MEC	03-APR-01		EDXRF
			PB	64	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	690	ppm	MEC	03-APR-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
I010370-014	01-MAR-01	IA17-2B	AS	150	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	51	ppm	MEC	03-APR-01		EDXRF
			FE	2.1	%	MEC	03-APR-01		EDXRF
			PB	97	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	93	ppm	MEC	03-APR-01		EDXRF
I010370-015	01-MAR-01	IA17-3A	AS	34	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	43	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	78	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	65	ppm	MEC	03-APR-01		EDXRF
I010370-016	01-MAR-01	IA17-3B	AS	54	ppm	MEC	03-APR-01		EDXRF
			CD	36	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	57	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	170	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	370	ppm	MEC	03-APR-01		EDXRF
I010370-017	01-MAR-01	IA17-4A1	AS	37	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	210	ppm	MEC	03-APR-01		EDXRF
			CU	38	ppm	MEC	03-APR-01		EDXRF
			FE	0.99	%	MEC	03-APR-01		EDXRF
			PB	100	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	34	ppm	MEC	03-APR-01		EDXRF
I010370-018	01-MAR-01	IA17-4A2	AS	32	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010370-018	01-MAR-01	IA17-4A2	CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	96	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	120	ppm	MEC	03-APR-01		EDXRF
L010370-019	01-MAR-01	IA17-4B	AS	21	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	25	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
L010370-020	02-MAR-01	IA17-5A	S2	52	ppm	MEC	03-APR-01		EDXRF
			PB	<40	ppm	MEC	03-APR-01		EDXRF
			SE	64	ppm	MEC	03-APR-01		EDXRF
			ZN		ppm	MEC	03-APR-01		EDXRF
			AS	230	ppm	MEC	03-APR-01		EDXRF
L010370-021	02-MAR-01	IA17-5B1	CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	53	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	34	ppm	MEC	03-APR-01		EDXRF
L010370-022	02-MAR-01	IA17-5B2	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	58	ppm	MEC	03-APR-01		EDXRF
			AS	470	ppm	MEC	03-APR-01		EDXRF
			CD	23	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
L010370-022	02-MAR-01	IA17-5B2	CU	94	ppm	MEC	03-APR-01		EDXRF
			FE	2.0	%	MEC	03-APR-01		EDXRF
			PB	54	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	600	ppm	MEC	03-APR-01		EDXRF
L010370-022	02-MAR-01	IA17-5B2	AS	460	ppm	MEC	03-APR-01		EDXRF
			CD	31	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	82	ppm	MEC	03-APR-01		EDXRF
			FE	2.0	%	MEC	03-APR-01		EDXRF
L010370-022	02-MAR-01	IA17-5B2	PB	68	ppm	MEC	03-APR-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DATA METHOD
L010370-022	02-MAR-01	IA17-SB2	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	580	ppm	MEC	03-APR-01		EDXRF
L010370-023	02-MAR-01	IA17-6A	AS	31	ppm	MEC	03-APR-01		EDXRF
			CD	13	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	35	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	54	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	28	ppm	MEC	03-APR-01		EDXRF
L010370-024	02-MAR-01	IA17-6B	AS	25	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	29	ppm	MEC	03-APR-01		EDXRF
			FE	0.91	%	MEC	03-APR-01		EDXRF
			PB	50	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	74	ppm	MEC	03-APR-01		EDXRF
L010370-025	02-MAR-01	IA17-7A	AS	31	ppm	MEC	03-APR-01		EDXRF
			CD	58	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	32	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	48	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	56	ppm	MEC	03-APR-01		EDXRF
L010370-026	02-MAR-01	IA17-7B	AS	36	ppm	MEC	03-APR-01		EDXRF
			CD	24	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	43	ppm	MEC	03-APR-01		EDXRF
			FE	0.75	%	MEC	03-APR-01		EDXRF
			PB	66	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	100	ppm	MEC	03-APR-01		EDXRF

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El Paso

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Batch No: L010370

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD
L010370-027	02-MAR-01	IA17-8A	AS	290	ppm	MEC	03-APR-01	EDXRF
			CD	66	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	1200	ppm	MEC	03-APR-01	EDXRF
			FE	1.4	%	MEC	03-APR-01	EDXRF
			PB	1200	ppm	MEC	03-APR-01	EDXRF
			SE	<40	ppm	MEC	03-APR-01	EDXRF
			ZN	5000	ppm	MEC	03-APR-01	EDXRF
L010370-028	02-MAR-01	IA17-8B	AS	65	ppm	MEC	03-APR-01	EDXRF
			CD	12	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	28	ppm	MEC	03-APR-01	EDXRF
			FE	1.4	%	MEC	03-APR-01	EDXRF
			PB	62	ppm	MEC	03-APR-01	EDXRF
			SE	<40	ppm	MEC	03-APR-01	EDXRF
			ZN	180	ppm	MEC	03-APR-01	EDXRF
L010370-029	02-MAR-01	IA17-8C1	AS	48	ppm	MEC	03-APR-01	EDXRF
			CD	10	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	120	ppm	MEC	03-APR-01	EDXRF
			FE	0.97	%	MEC	03-APR-01	EDXRF
			PB	96	ppm	MEC	03-APR-01	EDXRF
			SE	<40	ppm	MEC	03-APR-01	EDXRF
			ZN	320	ppm	MEC	03-APR-01	EDXRF
L010370-030	02-MAR-01	IA17-8C2	AS	62	ppm	MEC	03-APR-01	EDXRF
			CD	<10	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	82	ppm	MEC	03-APR-01	EDXRF
			FE	0.95	%	MEC	03-APR-01	EDXRF
			PB	92	ppm	MEC	03-APR-01	EDXRF
			SE	<40	ppm	MEC	03-APR-01	EDXRF
			ZN	320	ppm	MEC	03-APR-01	EDXRF
L010370-031	02-MAR-01	IA17-9A	AS	39	ppm	MEC	03-APR-01	EDXRF
			CD	<10	ppm	MEC	03-APR-01	EDXRF
			CR	290	ppm	MEC	03-APR-01	EDXRF

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L010370-031 02-MAR-01	IA17-9A	CU	56	ppm	MEC	03-APR-01		EDXRF
		FE	1.6	%	MEC	03-APR-01		EDXRF
		PB	120	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	210	ppm	MEC	03-APR-01		EDXRF
L010370-032 02-MAR-01	IA17-9B	AS	25	ppm	MEC	03-APR-01		EDXRF
		CD	<10	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	<20	ppm	MEC	03-APR-01		EDXRF
		FE	1.5	%	MEC	03-APR-01		EDXRF
		PB	74	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	140	ppm	MEC	03-APR-01		EDXRF
L010370-033 02-MAR-01	IA17-10B	AS	76	ppm	MEC	03-APR-01		EDXRF
		CD	32	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	32	ppm	MEC	03-APR-01		EDXRF
		FE	1.7	%	MEC	03-APR-01		EDXRF
		PB	24	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	28	ppm	MEC	03-APR-01		EDXRF
L010370-034 02-MAR-01	IA17-10C	AS	56	ppm	MEC	03-APR-01		EDXRF
		CD	<10	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	47	ppm	MEC	03-APR-01		EDXRF
		FE	0.70	%	MEC	03-APR-01		EDXRF
		PB	240	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	23	ppm	MEC	03-APR-01		EDXRF
L010370-035 02-MAR-01	IA17-11A	AS	33	ppm	MEC	03-APR-01		EDXRF
		CD	<10	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	27	ppm	MEC	03-APR-01		EDXRF
		FE	1.4	%	MEC	03-APR-01		EDXRF
		PB	75	ppm	MEC	03-APR-01		EDXRF

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L010370-035	02-MAR-01	IA17-11A	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	50	ppm	MEC	03-APR-01		EDXRF
L010370-036	02-MAR-01	IA17-11B	AS	11	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.77	%	MEC	03-APR-01		EDXRF
			PB	26	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	31	ppm	MEC	03-APR-01		EDXRF
			AS	34	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
L010370-037	02-MAR-01	IA17-12A	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	29	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	32	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	35	ppm	MEC	03-APR-01		EDXRF
			AS	57	ppm	MEC	03-APR-01		EDXRF
			CD	10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	42	ppm	MEC	03-APR-01		EDXRF
L010370-038	02-MAR-01	IA17-12B	FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	54	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	28	ppm	MEC	03-APR-01		EDXRF
			AS	50	ppm	MEC	03-APR-01		EDXRF
			CD	89	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	64	ppm	MEC	03-APR-01		EDXRF
			FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	96	ppm	MEC	03-APR-01		EDXRF
L010370-039	05-MAR-01	IA17-13A	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	1500	ppm	MEC	03-APR-01		EDXRF

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LAR NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	DATA METHOD
L010370-040	06-MAR-01	IA18-1A	AS	240	ppm	MEC	03-APR-01		EDXRF
			CD	18	ppm	MEC	03-APR-01		EDXRF
			CR	300	ppm	MEC	03-APR-01		EDXRF
			CU	1200	ppm	MEC	03-APR-01		EDXRF
			FE	4.4	%	MEC	03-APR-01		EDXRF
			PB	610	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	2200	ppm	MEC	03-APR-01		EDXRF
L010370-041	06-MAR-01	IA18-1B	AS	44	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	32	ppm	MEC	03-APR-01		EDXRF
			FE	1.5	%	MEC	03-APR-01		EDXRF
			PB	51	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	57	ppm	MEC	03-APR-01		EDXRF
L010370-042	06-MAR-01	IA18-1C	AS	64	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	160	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	90	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	83	ppm	MEC	03-APR-01		EDXRF
L010370-043	06-MAR-01	IA18-1D	AS	22	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	33	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	33	ppm	MEC	03-APR-01		EDXRF
L010370-044	06-MAR-01	IA18-1E1	AS	48	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010370

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010370-044	06-MAR-01	IA18-1E1	CU	53	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	56	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	37	ppm	MEC	03-APR-01		EDXRF
L010370-045	06-MAR-01	IA18-1E2	AS	40	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	47	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	37	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	43	ppm	MEC	03-APR-01		EDXRF
			AS	93	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
L010370-046	06-MAR-01	IA18-2A	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	100	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	80	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	71	ppm	MEC	03-APR-01		EDXRF
			AS	78	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
L010370-047	06-MAR-01	IA18-2B	FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	51	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	46	ppm	MEC	03-APR-01		EDXRF
			AS	55	ppm	MEC	03-APR-01		EDXRF
			CD	10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	50	ppm	MEC	03-APR-01		EDXRF
			FE	1.7	%	MEC	03-APR-01		EDXRF
			PB	49	ppm	MEC	03-APR-01		EDXRF
L010370-048	06-MAR-01	IA18-2C	AS	55	ppm	MEC	03-APR-01		EDXRF
			CD	10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	50	ppm	MEC	03-APR-01		EDXRF
			FE	1.7	%	MEC	03-APR-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010370-048	06-MAR-01	IA18-2C	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	43	ppm	MEC	03-APR-01		EDXRF
L010370-049	06-MAR-01	IA18-2D	AS	25	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	27	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	36	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	45	ppm	MEC	03-APR-01		EDXRF
L010370-050	06-MAR-01	IA18-2E	AS	36	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	48	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	47	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	30	ppm	MEC	03-APR-01		EDXRF
L010370-051	06-MAR-01	IA18-3A	AS	51	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	100	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	100	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	67	ppm	MEC	03-APR-01		EDXRF
L010370-052	06-MAR-01	IA18-3B	AS	49	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	47	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	50	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	80	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010370

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010370-053	06-MAR-01	IA18-3C	AS	98	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	110	ppm	MEC	03-APR-01		EDXRF
			FE	1.5	%	MEC	03-APR-01		EDXRF
			PB	69	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	73	ppm	MEC	03-APR-01		EDXRF
			AS	97	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
L010370-054	06-MAR-01	IA18-3D	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	71	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	49	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	22	ppm	MEC	03-APR-01		EDXRF
			AS	130	ppm	MEC	03-APR-01		EDXRF
			CD	16	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	470	ppm	MEC	03-APR-01		EDXRF
L010370-055	06-MAR-01	IA18-3E1	FE	1.5	%	MEC	03-APR-01		EDXRF
			PB	150	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	280	ppm	MEC	03-APR-01		EDXRF
			AS	120	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	360	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	98	ppm	MEC	03-APR-01		EDXRF
L010370-056	06-MAR-01	IA18-3E2	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	290	ppm	MEC	03-APR-01		EDXRF
			AS	120	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	360	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	98	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	290	ppm	MEC	03-APR-01		EDXRF
L010370-057	06-MAR-01	IA18-3F	AS	110	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010370

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010370-057	06-MAR-01	IA18-3F	CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	49	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	33	ppm	MEC	03-APR-01		EDXRF
L010370-058	06-MAR-01	IA18-4A1	AS	44	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	230	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	200	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	120	ppm	MEC	03-APR-01		EDXRF
L010370-059	06-MAR-01	IA18-4A2	AS	73	ppm	MEC	03-APR-01		EDXRF
			CD	26	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	420	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	560	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	290	ppm	MEC	03-APR-01		EDXRF
L010370-060	06-MAR-01	IA18-4B	AS	68	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	410	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	450	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	380	ppm	MEC	03-APR-01		EDXRF
L010370-061	06-MAR-01	IA18-4C	AS	62	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	62	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	74	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010370

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L010370-061	06-MAR-01	IA18-4C	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	68	ppm	MEC	03-APR-01		EDXRF
L010370-062	06-MAR-01	IA18-4D	AS	48	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	78	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	37	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	48	ppm	MEC	03-APR-01		EDXRF
			AS	30	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
L010370-063	06-MAR-01	IA18-4E	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	28	ppm	MEC	03-APR-01		EDXRF
			FE	1.0	%	MEC	03-APR-01		EDXRF
			PB	35	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	25	ppm	MEC	03-APR-01		EDXRF
			AS	28	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	24	ppm	MEC	03-APR-01		EDXRF
L010370-064	06-MAR-01	IA18-4F	FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	24	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	42	ppm	MEC	03-APR-01		EDXRF
			AS	260	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	820	ppm	MEC	03-APR-01		EDXRF
			FE	1.5	%	MEC	03-APR-01		EDXRF
			PB	160	ppm	MEC	03-APR-01		EDXRF
L010370-065	06-MAR-01	IA18-5A	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	100	ppm	MEC	03-APR-01		EDXRF

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El Paso

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LAB NO	DATE COLLECTED	DESCRIPTION	PAYMENT	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	TEST METHOD
I010370-066	06-MAR-01	IA18-5B							
		AS	67	ppm	MEC	03-APR-01			EDXRF
		CD	<10	ppm	MEC	03-APR-01			EDXRF
		CR	<200	ppm	MEC	03-APR-01			EDXRF
		CU	23	ppm	MEC	03-APR-01			EDXRF
		FE	1.7	%	MEC	03-APR-01			EDXRF
		PB	43	ppm	MEC	03-APR-01			EDXRF
		SE	<40	ppm	MEC	03-APR-01			EDXRF
		ZN	56	ppm	MEC	03-APR-01			EDXRF
I010370-067	06-MAR-01	IA18-5C							
		AS	70	ppm	MEC	03-APR-01			EDXRF
		CD	<10	ppm	MEC	03-APR-01			EDXRF
		CR	<200	ppm	MEC	03-APR-01			EDXRF
		CU	120	ppm	MEC	03-APR-01			EDXRF
		FE	1.1	%	MEC	03-APR-01			EDXRF
		PB	69	ppm	MEC	03-APR-01			EDXRF
		SE	<40	ppm	MEC	03-APR-01			EDXRF
		ZN	58	ppm	MEC	03-APR-01			EDXRF
I010370-068	06-MAR-01	IA18-5D1							
		AS	33	ppm	MEC	03-APR-01			EDXRF
		CD	<10	ppm	MEC	03-APR-01			EDXRF
		CR	<200	ppm	MEC	03-APR-01			EDXRF
		CU	23	ppm	MEC	03-APR-01			EDXRF
		FE	1.2	%	MEC	03-APR-01			EDXRF
		PB	40	ppm	MEC	03-APR-01			EDXRF
		SE	<40	ppm	MEC	03-APR-01			EDXRF
		ZN	54	ppm	MEC	03-APR-01			EDXRF
I010370-069	06-MAR-01	IA18-5D2							
		AS	32	ppm	MEC	03-APR-01			EDXRF
		CD	<10	ppm	MEC	03-APR-01			EDXRF
		CR	<200	ppm	MEC	03-APR-01			EDXRF
		CU	32	ppm	MEC	03-APR-01			EDXRF
		FE	1.3	%	MEC	03-APR-01			EDXRF
		PB	37	ppm	MEC	03-APR-01			EDXRF
		SE	<40	ppm	MEC	03-APR-01			EDXRF
		ZN	44	ppm	MEC	03-APR-01			EDXRF
I010370-070	06-MAR-01	IA18-5E							
		AS	150	ppm	MEC	03-APR-01			EDXRF
		CD	10	ppm	MEC	03-APR-01			EDXRF
		CR	<200	ppm	MEC	03-APR-01			EDXRF

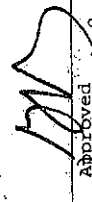
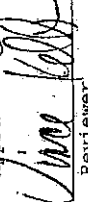
ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010370

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZER	DATE	HOLD
L010370-070	06-MAR-01	IA18-5E	CU	300	ppm	MEC	03-APR-01	EDXRF	
			FE	1.5	%	MEC	03-APR-01	EDXRF	
			PB	120	ppm	MEC	03-APR-01	EDXRF	
			SE	<40	ppm	MEC	03-APR-01	EDXRF	
			ZN	140	ppm	MEC	03-APR-01	EDXRF	
L010370-071	06-MAR-01	IA18-5F	AS	35	ppm	MEC	03-APR-01	EDXRF	
			CD	<10	ppm	MEC	03-APR-01	EDXRF	
			CR	<200	ppm	MEC	03-APR-01	EDXRF	
			CU	<20	ppm	MEC	03-APR-01	EDXRF	
			FE	0.85	%	MEC	03-APR-01	EDXRF	
			PB	38	ppm	MEC	03-APR-01	EDXRF	
			SE	<40	ppm	MEC	03-APR-01	EDXRF	
			ZN	39	ppm	MEC	03-APR-01	EDXRF	


 Approved

 Reviewer

Hydrometrics, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS METHODS						
1259v2		Closed Plants Invest.				<input type="checkbox"/> Commons UF/RAW <input type="checkbox"/> Nutrients UF/H ₂ SO ₄ <input type="checkbox"/> Diss. Metal F/HNO ₃ <input type="checkbox"/> CN UF/NaOH <input type="checkbox"/> Total Metals UF/HNO ₃ <input type="checkbox"/> Total Recoverable Metals UF/HNO ₃ <input type="checkbox"/> BTEX <input type="checkbox"/> TPH <input checked="" type="checkbox"/> XRF <input checked="" type="checkbox"/> ICP/ICP-MS						
SAMPLERS: (Signature)												
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER								
3/20/01	1255			IA15-8B		1 BAG						
	1300			IA15-8C								
	1310			IA15-8E								
	1315			IA15-8F								
	1450			IA15-12C								
	1455			IA15-12D								
	1500			IA15-12E1								
	1500			IA15-12E2								
3/20/01	1505			IA15-12F		1 BAG						
Relinquished (Signature)				Date/Time		Received by: (Signature)		Lab				
Relinquished (Signature)				3/20/01 1200				TSC, Salt Lake City				
Relinquished (Signature)				Date/Time		Received by: (Signature)		Remarks				
Relinquished (Signature)				Date/Time		Received for Laboratory by: (Signature)		Date/Time				
								Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limit <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Other				
								Shipped via: Bus, Air Bill #				

HYGROMICS, LLC

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	COMMONS UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	TPH	XRF	ICP	P.O. #	Shipped via: Bus, R Other Air Bill #
DATE	TIME	COM. P.	GRAB													
1259VZ		Closed Plants Inwest.		1 BAG												
SAMPLERS: (Signature) <i>Wendy D. Williams</i>																
3/1/01	1100															
	1100															
	1110															
	1220															
	1400															
	1500															
	1505															
	1625															
	1625															
3/1/01	1630															
3/2/01	0825															
	0840															
	0840															
	0910															
3/2/01	0915															
Relinquished (Signature) <i>Wendy D. Williams</i>		Date/Time 3/20/01 1200		Received by: (Signature)		Lab TSC, Salt Lake City		Remarks		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Co <input type="checkbox"/> Other		Split Samples:				
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Split Samples:				
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Split Samples:				

Hydrometals, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220162, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO. 125902		PROJECT NAME Closed Plants Invest.		SAMPLERS: (Signature) <i>[Signature]</i>		NO. OF CONTAINERS		Commons UF/RAW Nutrients UF/H ₂ SO ₄ Diss. Metal F/HNO ₃ CN UF/NaOH Total Metals UF/HNO ₃ Total Recoverable Metals UF/HNO ₃ BTEX TPH XRF ICP								
DATE	TIME	COMP	GRAB	SAMPLE NUMBER												
3/2/01	0955			IA17-7A	1 BAG											
	1000			IA17-7B												
	1130			IA17-8A												
	1135			IA17-8B												
	1140			IA17-8C1												
	1140			IA17-8C2												
	1100			IA17-9A												
	1105			IA17-9B												
	1135			IA17-10B												
	1145			IA17-10C												
	1430			IA17-11A												
	1435			IA17-11B												
	1600			IA17-12A												
3/2/01	1615			IA17-12B												
3/5/01	0950			IA17-13A	1 BAG											
Relinquished (Signature) <i>[Signature]</i>				Date/Time 3/26/01 1200	Received by: (Signature)	Lab TSC, Salt Lake City	P.O. #	Shipped via: Bus, Fed Other		Air Bill #						
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks										
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time 3-22-01 1100	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limit <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover <input type="checkbox"/> Other									

Hydrome ICS, LLC

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CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	COMMONS UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF	ICP	Shipped via: Bus, Rec Other	Air Bill #
125902		CLOSED PLANTS INVEST.														
SAMPLERS: (Signature)																
DATE	TIME	COMP	GRAB	SAMPLE NUMBER												
3/6/01	0935			IA18-1A												
	0937			IA18-1B												
	0940			IA18-1C												
	0945			IA18-1D												
	0950			IA18-1E1												
	0950			IA18-1E2												
	1000			IA18-2A												
	1005			IA18-2B												
	1007			IA18-2C												
	1010			IA18-2D												
	1015			IA18-2E												
	1040			IA18-3A												
	1043			IA18-3B												
	1045			IA18-3C												
3/6/01	1047			IA18-3D												
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Lab		P.O. #		Shipped via: Bus, Rec Other		Air Bill #		
3/26/01		1200		3/26/01		1200		TSC, Salt Lake City								
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks								
3/26/01		1200		3/26/01		1200										
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:								
3/26/01		1200		3/26/01		1200		<input checked="" type="checkbox"/> Parameter sheet w/ detection limit <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Other								
Relinquished (Signature)		Date/Time		Split Samples:												

Hydrometrics, Inc.

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MAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO.		OF		CON-		TAINERS		Commons UF/RAW		Nutrients UF/H ₂ SO ₄		Diss. Metal F/HNO ₃		CN UF/NaOH		Total Metals UF/HNO ₃		Total Recoverable Metals UF/HNO ₃		BTX		TPH		XRF		ICP		REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																													
3/6/01	1050			IA18-3E1	1 BAG																												4-5 ft +
	1050			IA18-3E2																													4-5 ft +
	1055			IA18-3F																													5-6 ft +
	1105			IA18-4A1																													0.1-1 ft +
	1105			IA18-4A2																													1-2 ft +
	1107			IA18-4B																													2-3 ft +
	1110			IA18-4C																													3-4 ft +
	1112			IA18-4D																													4-5 ft +
	1115			IA18-4E																													5-6 ft +
3/6/01	1120			IA18-4F	1 BAG																												
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		Air Bill #																			
Relinquished (Signature)		3/26/01 1200				TSC, Salt Lake City																											
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

LIBRARY

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85710 • (520) 544-3150 • FAX (520) 544-3190
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PROJ. NO.	PROJECT NAME	DATE		TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	ICP	REMARK
25902	CLOSED PLANTS INVEST.	3/6/01	1125				IA18-5A	1 BAG									X	0.2-1 ft
			1130				IA18-5B											1-2 ft
			1132				IA18-5C											2-3 ft
			1135				IA18-5D1											3-4 ft
			1135				IA18-5D2											3-4 ft
			1137				IA18-5E											4-5 ft
		3/6/01	1140				IA18-5F	1 BAG									X	5-6 ft

Relinquished (Signature) Date/Time 3/26/01 1200
 Relinquished (Signature) Date/Time
 Relinquished (Signature) Date/Time

Received by: (Signature) Date/Time 3-22-01 1000
 Received by: (Signature) Date/Time
 Received for Laboratory by: (Signature) Date/Time

Shipped via: Bus, Fed Ex, UPS
 Other: Air Bill #

Lab TSC, Salt Lake City
 Remarks

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

Split Samples: 11 Accepted 11 Declined

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010458

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD	DAYS	METHOD
L010458-001	20-FEB-01	IA15-8C 10370-002	AS	1087	ppm	EH	18-APR-01	6010		
			CD	241	ppm	EH	18-APR-01	6010		
			CR	<30	ppm	EH	18-APR-01	6010		
			CU	29400	ppm	EH	18-APR-01	6010		
			FE	19180	ppm	EH	18-APR-01	6010		
			PB	418	ppm	EH	18-APR-01	6010		
			SE	<10	ppm	MK	18-APR-01	6010		
			ZN	4097	ppm	EH	18-APR-01	6010		
L010458-002	02-MAR-01	IA17-6A 10370-023	AS	11	ppm	EH	09-APR-01	6010		
			CD	<10	ppm	EH	09-APR-01	6010		
			CR	79	ppm	EH	09-APR-01	6010		
			CU	10	ppm	EH	09-APR-01	6010		
			FE	24070	ppm	EH	09-APR-01	6010		
			PB	14	ppm	EH	09-APR-01	6010		
			SE	<10	ppm	MK	18-APR-01	6010		
			ZN	53	ppm	EH	09-APR-01	6010		
L010458-003	06-MAR-01	IA18-1E1 10370-044	AS	27	ppm	EH	09-APR-01	6010		
			CD	<10	ppm	EH	09-APR-01	6010		
			CR	46	ppm	EH	09-APR-01	6010		
			CU	27	ppm	EH	09-APR-01	6010		
			FE	16040	ppm	EH	09-APR-01	6010		
			PB	17	ppm	EH	09-APR-01	6010		
			SE	<10	ppm	MK	18-APR-01	6010		
			ZN	87	ppm	EH	09-APR-01	6010		
L010458-004	06-MAR-01	IA18-4B 10370-060	AS	64	ppm	EH	09-APR-01	6010		
			CD	<10	ppm	EH	09-APR-01	6010		
			CR	38	ppm	EH	09-APR-01	6010		
			CU	380	ppm	EH	09-APR-01	6010		
			FE	16420	ppm	EH	09-APR-01	6010		
			PB	510	ppm	EH	09-APR-01	6010		
			SE	<10	ppm	MK	18-APR-01	6010		
			ZN	391	ppm	EH	09-APR-01	6010		
L010458-005	06-MAR-01	IA18-5A 10370-065	AS	251	ppm	EH	09-APR-01	6010		
			CD	<10	ppm	EH	09-APR-01	6010		
			CR	48	ppm	EH	09-APR-01	6010		

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010458

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010458-005	06-MAR-01	IA18-5A 10370-065	CU	725	ppm	EH	09-APR-01		6010
			FE	16570	ppm	EH	09-APR-01		6010
			PB	109	ppm	EH	09-APR-01		6010
			SE	<10	ppm	MK	18-APR-01		6010
			ZN	151	ppm	EH	09-APR-01		6010
L010458-006	26-FEB-01	IA16-30B 10371-016	AS	37	ppm	EH	09-APR-01		6010
			CD	<10	ppm	EH	09-APR-01		6010
			CR	58	ppm	EH	09-APR-01		6010
			CU	79	ppm	EH	09-APR-01		6010
			FE	19060	ppm	EH	09-APR-01		6010
			PB	183	ppm	EH	09-APR-01		6010
			SE	11	ppm	MK	18-APR-01		6010
			ZN	100	ppm	EH	09-APR-01		6010
L010458-007	05-MAR-01	IA17-13B 10371-037	AS	16	ppm	EH	09-APR-01		6010
			CD	43	ppm	EH	09-APR-01		6010
			CR	56	ppm	EH	09-APR-01		6010
			CU	74	ppm	EH	09-APR-01		6010
			FE	23200	ppm	EH	09-APR-01		6010
			PB	82	ppm	EH	09-APR-01		6010
			SE	<10	ppm	MK	18-APR-01		6010
			ZN	1088	ppm	EH	09-APR-01		6010
L010458-008	22-FEB-01	IA16-19A 10372-005	AS	1001	ppm	EH	09-APR-01		6010
			CD	400	ppm	EH	09-APR-01		6010
			CR	57	ppm	EH	09-APR-01		6010
			CU	4548	ppm	EH	09-APR-01		6010
			FE	19320	ppm	EH	09-APR-01		6010
			PB	6802	ppm	EH	09-APR-01		6010
			SE	54	ppm	MK	18-APR-01		6010
			ZN	3418	ppm	EH	09-APR-01		6010
L010458-009	23-FEB-01	IA16-21G 10372-013	AS	48	ppm	EH	09-APR-01		6010
			CD	12	ppm	EH	09-APR-01		6010
			CR	61	ppm	EH	09-APR-01		6010
			CU	312	ppm	EH	09-APR-01		6010
			FE	12530	ppm	EH	09-APR-01		6010
			PB	1870	ppm	EH	09-APR-01		6010

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220).

Batch No: L010458

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	DATA METHOD
L010458-009	23-FEB-01	IA16-21G 10372-013	SE	<10	ppm	MK	18-APR-01		6010
			ZN	506	ppm	EH	09-APR-01		6010
L010458-010	26-FEB-01	IA16-28E 10372-038	AS	15	ppm	EH	09-APR-01		6010
			CD	14	ppm	EH	09-APR-01		6010
			CR	65	ppm	EH	09-APR-01		6010
			CU	126	ppm	EH	09-APR-01		6010
			FE	29190	ppm	EH	09-APR-01		6010
			PB	92	ppm	EH	09-APR-01		6010
			SE	<10	ppm	MK	18-APR-01		6010
			ZN	125	ppm	EH	09-APR-01		6010

Chris ELL
Approved

[Signature]
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010293

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010293-1		Matrix Spike	AS	112	%Recovery	EH	09-APR-01	6010	
			CD	83	%Recovery	EH	09-APR-01	6010	
			CR	101	%Recovery	EH	09-APR-01	6010	
			CU	SR>4XSA	%Recovery	EH	09-APR-01	6010	
			FE	SR>4XSA	%Recovery	EH	09-APR-01	6010	
			PB	97	%Recovery	EH	09-APR-01	6010	
			SE	88	%Recovery	EH	18-APR-01	6010	
			ZN	90	%Recovery	EH	09-APR-01	6010	
			AS	<10	ppm	EH	09-APR-01	6010	
			CD	<10	ppm	EH	09-APR-01	6010	
WG010293-2		Prep Blank	CR	<30	ppm	EH	09-APR-01	6010	
			CU	<10	ppm	EH	09-APR-01	6010	
			FE	<50	ppm	EH	09-APR-01	6010	
			PB	<10	ppm	EH	09-APR-01	6010	
			SE	<10	ppm	EH	18-APR-01	6010	
			ZN	<10	ppm	EH	09-APR-01	6010	
			AS	94	%Recovery	EH	09-APR-01	6010	
			CD	85	%Recovery	EH	09-APR-01	6010	
			CR	123*	%Recovery	EH	09-APR-01	6010	
			CU	99	%Recovery	EH	09-APR-01	6010	
WG010293-3		Lab Control Sample	FE	92	%Recovery	EH	09-APR-01	6010	
			PB	93	%Recovery	EH	09-APR-01	6010	
			SE	*	%Recovery	EH	18-APR-01	6010	
			ZN	84	%Recovery	EH	09-APR-01	6010	
			AS	94	%Recovery	EH	09-APR-01	6010	
			CD	85	%Recovery	EH	09-APR-01	6010	
			CR	123*	%Recovery	EH	09-APR-01	6010	
			CU	99	%Recovery	EH	09-APR-01	6010	
			FE	92	%Recovery	EH	09-APR-01	6010	
			PB	93	%Recovery	EH	09-APR-01	6010	
WG010293-5		Matrix Spike Duplicate	SE	*	%Recovery	EH	18-APR-01	6010	
			ZN	84	%Recovery	EH	09-APR-01	6010	
			AS	0.5	% RPD	EH	09-APR-01	6010	
			CD	3.0	% RPD	EH	09-APR-01	6010	
			CR	4.6	% RPD	EH	09-APR-01	6010	
			CU	2.2	% RPD	EH	09-APR-01	6010	
			FE	0.4	% RPD	EH	09-APR-01	6010	
			PB	0.1	% RPD	EH	09-APR-01	6010	
			SE	3.1	% RPD	EH	18-APR-01	6010	
			ZN	1.8	% RPD	EH	09-APR-01	6010	
WG010293-6		Reporting Limit	AS	10	ppm	EH	09-APR-01	6010	
			CD	10	ppm	EH	09-APR-01	6010	
			CR	30	ppm	EH	09-APR-01	6010	

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010293

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	QMS METHOD
WG010293-6		Reporting Limit	CU	10	ppm	EH	09-APR-01		6010
			FE	50	ppm	EH	09-APR-01		6010
			PB	10	ppm	EH	09-APR-01		6010
			SE	10	ppm	EH	18-APR-01		6010
			ZN	10	ppm	EH	09-APR-01		6010

* Soil reference material (NBS 2710) does not have reference value for selenium. Calibration verification for selenium had 92% recovery.
SR-4XSA indicates the sample result is > than 4 times the spike added; spike not evaluated.
** Cr value for NBS 2710 is non certified.

Approved 


Reviewed

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010371

RECEIVED APR 16 2001

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010371-001	21-FEB-01	IA16-9E	AS	150	ppm	MEC	03-APR-01		EDXRF
			CD	62	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	700	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	1600	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
L010371-002	21-FEB-01	IA16-9F	ZN	410	ppm	MEC	03-APR-01		EDXRF
			AS	36	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	39	ppm	MEC	03-APR-01		EDXRF
			FE	2.0	%	MEC	03-APR-01		EDXRF
			PB	49	ppm	MEC	03-APR-01		EDXRF
L010371-003	01-MAR-01	IA16-10A	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	35	ppm	MEC	03-APR-01		EDXRF
			AS	32	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	74	ppm	MEC	03-APR-01		EDXRF
			FE	1.5	%	MEC	03-APR-01		EDXRF
L010371-004	01-MAR-01	IA16-10B1	PB	95	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	27	ppm	MEC	03-APR-01		EDXRF
			AS	33	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	130	ppm	MEC	03-APR-01		EDXRF
L010371-005	01-MAR-01	IA16-10B2	FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	120	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	45	ppm	MEC	03-APR-01		EDXRF
			AS	42	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: I010371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
I010371-005	01-MAR-01	IA16-10E2	CU	68	ppm	MEC	03-APR-01		EDXRF
			FE	2.0	%	MEC	03-APR-01		EDXRF
			PB	120	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	38	ppm	MEC	03-APR-01		EDXRF
I010371-006	22-FEB-01	IA16-11B	AS	35	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	120	ppm	MEC	03-APR-01		EDXRF
			FE	1.7	%	MEC	03-APR-01		EDXRF
			PB	190	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	43	ppm	MEC	03-APR-01		EDXRF
I010371-007	22-FEB-01	IA16-11C	AS	240	ppm	MEC	03-APR-01		EDXRF
			CD	33	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	2100	ppm	MEC	03-APR-01		EDXRF
			FE	2.0	%	MEC	03-APR-01		EDXRF
			PB	3500	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	450	ppm	MEC	03-APR-01		EDXRF
			AS	110	ppm	MEC	03-APR-01		EDXRF
			CD	22	ppm	MEC	03-APR-01		EDXRF
I010371-008	22-FEB-01	IA16-11D	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	860	ppm	MEC	03-APR-01		EDXRF
			FE	2.3	%	MEC	03-APR-01		EDXRF
			PB	1100	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	180	ppm	MEC	03-APR-01		EDXRF
			AS	69	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	350	ppm	MEC	03-APR-01		EDXRF
I010371-009	22-FEB-01	IA16-11E	FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	580	ppm	MEC	03-APR-01		EDXRF
			AS	69	ppm	MEC	03-APR-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010371-009	22-FEB-01	IA16-11E	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	110	ppm	MEC	03-APR-01		EDXRF
L010371-010	22-FEB-01	IA16-11F	AS	56	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	87	ppm	MEC	03-APR-01		EDXRF
			FE	1.8	%	MEC	03-APR-01		EDXRF
			PB	100	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	46	ppm	MEC	03-APR-01		EDXRF
L010371-011	22-FEB-01	IA16-14D	AS	59	ppm	MEC	03-APR-01		EDXRF
			CD	13	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	880	ppm	MEC	03-APR-01		EDXRF
			FE	2.1	%	MEC	03-APR-01		EDXRF
			PB	750	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	230	ppm	MEC	03-APR-01		EDXRF
L010371-012	22-FEB-01	IA16-14E	AS	59	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	93	ppm	MEC	03-APR-01		EDXRF
			FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	75	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	57	ppm	MEC	03-APR-01		EDXRF
L010371-013	28-FEB-01	IA16-14F	AS	75	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	510	ppm	MEC	03-APR-01		EDXRF
			FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	560	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	350	ppm	MEC	03-APR-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYSED	HOLD DAYS	METHOD
L010371-014	22-FEB-01	IA16-18B1	AS	34	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	82	ppm	MEC	03-APR-01		EDXRF
			FE	0.95	%	MEC	03-APR-01		EDXRF
			PB	88	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	19	ppm	MEC	03-APR-01		EDXRF
L010371-015	22-FEB-01	IA16-18B2	AS	26	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	91	ppm	MEC	03-APR-01		EDXRF
			FE	0.99	%	MEC	03-APR-01		EDXRF
			PB	82	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	<10	ppm	MEC	03-APR-01		EDXRF
L010371-016	26-FEB-01	IA16-30B	AS	64	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	100	ppm	MEC	03-APR-01		EDXRF
			FE	1.4	%	MEC	03-APR-01		EDXRF
			PB	230	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	42	ppm	MEC	03-APR-01		EDXRF
L010371-017	26-FEB-01	IA16-30C	AS	90	ppm	MEC	03-APR-01		EDXRF
			CD	10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	280	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	220	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	90	ppm	MEC	03-APR-01		EDXRF
L010371-018	26-FEB-01	IA16-30D1	AS	36	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

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L010371-018	26-FEB-01	IA16-30D1	CU	56	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	49	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	38	ppm	MEC	03-APR-01		EDXRF
L010371-019	26-FEB-01	IA16-30D2	AS	43	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	33	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	62	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	35	ppm	MEC	03-APR-01		EDXRF
			AS	22	ppm	MEC	03-APR-01		EDXRF
			CD	17	ppm	MEC	03-APR-01		EDXRF
L010371-020	26-FEB-01	IA16-40F	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	47	ppm	MEC	03-APR-01		EDXRF
			FE	0.86	%	MEC	03-APR-01		EDXRF
			PB	170	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	71	ppm	MEC	03-APR-01		EDXRF
			AS	70	ppm	MEC	03-APR-01		EDXRF
			CD	89	ppm	MEC	03-APR-01		EDXRF
L010371-021	28-FEB-01	IA16-45A	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	120	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	180	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	640	ppm	MEC	03-APR-01		EDXRF
			AS	43	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
L010371-022	28-FEB-01	IA16-1P	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	71	ppm	MEC	03-APR-01		EDXRF
			FE	1.8	%	MEC	03-APR-01		EDXRF
			PB	89	ppm	MEC	03-APR-01		EDXRF
			AS	43	ppm	MEC	03-APR-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOUND	TEST METHOD
1010371-022	28-FEB-01	IA16-1F	SE	<40	ppm	MEC	03-APR-01	EDXRF	
			ZN	63	ppm	MEC	03-APR-01	EDXRF	
1010371-023	28-FEB-01	IA16-2E1	AS	44	ppm	MEC	03-APR-01	EDXRF	
			CD	<10	ppm	MEC	03-APR-01	EDXRF	
			CR	<200	ppm	MEC	03-APR-01	EDXRF	
			CU	32	ppm	MEC	03-APR-01	EDXRF	
			FE	1.9	%	MEC	03-APR-01	EDXRF	
			PB	47	ppm	MEC	03-APR-01	EDXRF	
			SE	<40	ppm	MEC	03-APR-01	EDXRF	
			ZN	46	ppm	MEC	03-APR-01	EDXRF	
1010371-024	28-FEB-01	IA16-2E2	AS	53	ppm	MEC	03-APR-01	EDXRF	
			CD	<10	ppm	MEC	03-APR-01	EDXRF	
			CR	<200	ppm	MEC	03-APR-01	EDXRF	
			CU	58	ppm	MEC	03-APR-01	EDXRF	
			FE	1.9	%	MEC	03-APR-01	EDXRF	
			PB	52	ppm	MEC	03-APR-01	EDXRF	
			SE	<40	ppm	MEC	03-APR-01	EDXRF	
			ZN	49	ppm	MEC	03-APR-01	EDXRF	
1010371-025	21-FEB-01	IA16-3D	AS	34	ppm	MEC	03-APR-01	EDXRF	
			CD	<10	ppm	MEC	03-APR-01	EDXRF	
			CR	<200	ppm	MEC	03-APR-01	EDXRF	
			CU	<20	ppm	MEC	03-APR-01	EDXRF	
			FE	1.4	%	MEC	03-APR-01	EDXRF	
			PB	80	ppm	MEC	03-APR-01	EDXRF	
			SE	<40	ppm	MEC	03-APR-01	EDXRF	
			ZN	37	ppm	MEC	03-APR-01	EDXRF	
1010371-026	21-FEB-01	IA16-3E	AS	36	ppm	MEC	03-APR-01	EDXRF	
			CD	<10	ppm	MEC	03-APR-01	EDXRF	
			CR	<200	ppm	MEC	03-APR-01	EDXRF	
			CU	52	ppm	MEC	03-APR-01	EDXRF	
			FE	1.2	%	MEC	03-APR-01	EDXRF	
			PB	100	ppm	MEC	03-APR-01	EDXRF	
			SE	<40	ppm	MEC	03-APR-01	EDXRF	
			ZN	58	ppm	MEC	03-APR-01	EDXRF	

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L010371-027	28-FEB-01	IA16-3F	AS	<10	ppm	MEC	03-APR-01	EDXRF
			CD	<10	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	<20	ppm	MEC	03-APR-01	EDXRF
			FE	0.67	%	MEC	03-APR-01	EDXRF
			PB	26	ppm	MEC	03-APR-01	EDXRF
			SE	<40	ppm	MEC	03-APR-01	EDXRF
L010371-028	28-FEB-01	IA16-4G	ZN	43	ppm	MEC	03-APR-01	EDXRF
			AS	18	ppm	MEC	03-APR-01	EDXRF
			CD	<10	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	23	ppm	MEC	03-APR-01	EDXRF
			FE	0.99	%	MEC	03-APR-01	EDXRF
			PB	32	ppm	MEC	03-APR-01	EDXRF
L010371-029	28-FEB-01	IA16-5G	SE	<40	ppm	MEC	03-APR-01	EDXRF
			ZN	23	ppm	MEC	03-APR-01	EDXRF
			AS	68	ppm	MEC	03-APR-01	EDXRF
			CD	<10	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	220	ppm	MEC	03-APR-01	EDXRF
			FE	1.5	%	MEC	03-APR-01	EDXRF
L010371-030	28-FEB-01	IA16-5F	PB	290	ppm	MEC	03-APR-01	EDXRF
			SE	<40	ppm	MEC	03-APR-01	EDXRF
			ZN	41	ppm	MEC	03-APR-01	EDXRF
			AS	47	ppm	MEC	03-APR-01	EDXRF
			CD	<10	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF
			CU	28	ppm	MEC	03-APR-01	EDXRF
L010371-031	28-FEB-01	IA16-5H1	FE	1.9	%	MEC	03-APR-01	EDXRF
			PB	59	ppm	MEC	03-APR-01	EDXRF
			SE	<40	ppm	MEC	03-APR-01	EDXRF
			ZN	23	ppm	MEC	03-APR-01	EDXRF
			AS	71	ppm	MEC	03-APR-01	EDXRF
			CD	13	ppm	MEC	03-APR-01	EDXRF
			CR	<200	ppm	MEC	03-APR-01	EDXRF

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L010371-031	28-FEB-01	IA16-SH1	CU	63	ppm	MEC	03-APR-01		EDXRF
			FE	1.7	%	MEC	03-APR-01		EDXRF
			PB	77	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	47	ppm	MEC	03-APR-01		EDXRF
L010371-032	28-FEB-01	IA16-SH2	AS	77	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	1.8	%	MEC	03-APR-01		EDXRF
			PB	79	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	31	ppm	MEC	03-APR-01		EDXRF
L010371-033	28-FEB-01	IA16-7B	AS	43	ppm	MEC	03-APR-01		EDXRF
			CD	32	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	190	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	220	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	120	ppm	MEC	03-APR-01		EDXRF
L010371-034	28-FEB-01	IA16-8D	AS	51	ppm	MEC	03-APR-01		EDXRF
			CD	1000	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	120	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	70	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	620	ppm	MEC	03-APR-01		EDXRF
L010371-035	28-FEB-01	IA16-8E	AS	59	ppm	MEC	03-APR-01		EDXRF
			CD	710	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	25	ppm	MEC	03-APR-01		EDXRF
			FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	53	ppm	MEC	03-APR-01		EDXRF

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L010371-035	28-FEB-01	IA16-8E	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	660	ppm	MEC	03-APR-01		EDXRF
L010371-036	28-FEB-01	IA16-8F	AS	42	ppm	MEC	03-APR-01		EDXRF
			CD	570	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	150	ppm	MEC	03-APR-01		EDXRF
			FE	2.1	%	MEC	03-APR-01		EDXRF
			PB	65	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	570	ppm	MEC	03-APR-01		EDXRF
L010371-037	05-MAR-01	IA17-13B	AS	36	ppm	MEC	03-APR-01		EDXRF
			CD	39	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	140	ppm	MEC	03-APR-01		EDXRF
			FE	2.1	%	MEC	03-APR-01		EDXRF
			PB	140	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	980	ppm	MEC	03-APR-01		EDXRF
L010371-038	05-MAR-01	IA17-14A	AS	22	ppm	MEC	03-APR-01		EDXRF
			CD	61	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	22	ppm	MEC	03-APR-01		EDXRF
			FE	0.99	%	MEC	03-APR-01		EDXRF
			PB	54	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	490	ppm	MEC	03-APR-01		EDXRF
L010371-039	05-MAR-01	IA17-14B	AS	67	ppm	MEC	03-APR-01		EDXRF
			CD	28	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	77	ppm	MEC	03-APR-01		EDXRF
			FE	1.8	%	MEC	03-APR-01		EDXRF
			PB	73	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	1100	ppm	MEC	03-APR-01		EDXRF

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DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010371-040 05-MAR-01	IA17-15A	AS	20	ppm	MEC	03-APR-01		EDXRF
		CD	<10	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	20	ppm	MEC	03-APR-01		EDXRF
		FE	1.1	%	MEC	03-APR-01		EDXRF
		PB	57	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	87	ppm	MEC	03-APR-01		EDXRF
L010371-041 05-MAR-01	IA17-15B	AS	32	ppm	MEC	03-APR-01		EDXRF
		CD	<10	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	34	ppm	MEC	03-APR-01		EDXRF
		FE	1.4	%	MEC	03-APR-01		EDXRF
		PB	51	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	23	ppm	MEC	03-APR-01		EDXRF
L010371-042 05-MAR-01	IA17-16A	AS	87	ppm	MEC	03-APR-01		EDXRF
		CD	<10	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	35	ppm	MEC	03-APR-01		EDXRF
		FE	1.4	%	MEC	03-APR-01		EDXRF
		PB	42	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	68	ppm	MEC	03-APR-01		EDXRF
L010371-043 05-MAR-01	IA17-16B	AS	22	ppm	MEC	03-APR-01		EDXRF
		CD	24	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF
		CU	36	ppm	MEC	03-APR-01		EDXRF
		FE	0.78	%	MEC	03-APR-01		EDXRF
		PB	41	ppm	MEC	03-APR-01		EDXRF
		SE	<40	ppm	MEC	03-APR-01		EDXRF
		ZN	280	ppm	MEC	03-APR-01		EDXRF
L010371-044 05-MAR-01	IA17-17E	AS	95	ppm	MEC	03-APR-01		EDXRF
		CD	120	ppm	MEC	03-APR-01		EDXRF
		CR	<200	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010371-044	05-MAR-01	IA17-17E	CU	120	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	66	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	280	ppm	MEC	03-APR-01		EDXRF
L010371-045	05-MAR-01	IA17-17F1	AS	<10	ppm	MEC	03-APR-01		EDXRF
			CD	42	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.54	%	MEC	03-APR-01		EDXRF
L010371-046	05-MAR-01	IA17-17F2	PB	27	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	110	ppm	MEC	03-APR-01		EDXRF
			AS	21	ppm	MEC	03-APR-01		EDXRF
			CD	56	ppm	MEC	03-APR-01		EDXRF
L010371-047	06-MAR-01	IA17-18A	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.57	%	MEC	03-APR-01		EDXRF
			PB	20	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
L010371-048	06-MAR-01	IA17-18B	ZN	100	ppm	MEC	03-APR-01		EDXRF
			AS	13	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	29	ppm	MEC	03-APR-01		EDXRF
L010371-049	06-MAR-01	IA17-18C	FE	0.96	%	MEC	03-APR-01		EDXRF
			PB	53	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	66	ppm	MEC	03-APR-01		EDXRF
			AS	<10	ppm	MEC	03-APR-01		EDXRF
L010371-050	06-MAR-01	IA17-18D	CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.74	%	MEC	03-APR-01		EDXRF
			PB	21	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010371-048	06-MAR-01	IA17-18B	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	36	ppm	MEC	03-APR-01		EDXRF
L010371-049	06-MAR-01	IA17-19A	AS	86	ppm	MEC	03-APR-01		EDXRF
			CD	36	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	240	ppm	MEC	03-APR-01		EDXRF
			FE	0.76	%	MEC	03-APR-01		EDXRF
			PB	220	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	150	ppm	MEC	03-APR-01		EDXRF
L010371-050	06-MAR-01	IA17-19B	AS	35	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	20	ppm	MEC	03-APR-01		EDXRF
			FE	1.5	%	MEC	03-APR-01		EDXRF
			PB	110	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	240	ppm	MEC	03-APR-01		EDXRF
L010371-051	06-MAR-01	IA17-19C	AS	<10	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.47	%	MEC	03-APR-01		EDXRF
			PB	10	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	16	ppm	MEC	03-APR-01		EDXRF
L010371-052	06-MAR-01	IA17-20A	AS	<10	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	21	ppm	MEC	03-APR-01		EDXRF
			FE	0.59	%	MEC	03-APR-01		EDXRF
			PB	21	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	12	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010371-053	06-MAR-01	IAL7-20B	AS	35	ppm	MEC	03-APR-01		EDXRF
			CD	13	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	0.76	%	MEC	03-APR-01		EDXRF
			PB	49	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	19	ppm	MEC	03-APR-01		EDXRF

[Signature]

Approved

[Signature]

Reviewer

Hydrometrix Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CON-TAINERS		ANALYSIS							REMARKS		
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H ₂ SO ₄	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTEX	TPH	XRF	ICP	
2/21/01	1430			IA16-9E	1 BAG								X		4-5 ft
2/21/01	1435			IA16-9F											5-6 ft
3/11/01	0850			IA16-10A											30-31 ft
3/11/01	0905			IA16-10B1											35-36 ft
3/11/01	0905			IA16-10B2									X		35-36 ft
2/22/01	0827			IA16-11B											3-4 ft
	0834			IA16-11C											4-5 ft
	0840			IA16-11D											5-6 ft
	0837			IA16-11E											5-7 ft
	0845			IA16-11F											7-8 ft
2/22/01	0955			IA16-14D											3-4 ft
2/22/01	0959			IA16-14E											4-5 ft
2/28/01	1435			IA16-14F											10-11 ft
2/22/01	1322			IA16-18B1											1-2 ft
2/22/01	1322			IA16-18B2	1 BAG										1-2 ft
Relinquished (Signature)		Date/Time		Received by: (Signature)	Lab	P.O. #							Shipped via: Bus, Fed Ex, UPS		
Relinquished (Signature)		3/26/01 1200			TSC, Salt Lake City								Other: Air Bill #		
Relinquished (Signature)		Date/Time		Received by: (Signature)	Remarks										
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)	Date/Time								Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other		

Cityville

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	SAMPLERS: (Signature)		NO. OF CONTAINERS		REMARKS									
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H ₂ SO ₄	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTX	TPH	XRF	ICP	
2/26/01	1302			IA16-30B	1 BAG								X		
	1305			IA16-30C											
	1310			IA16-30D1											
	1310			IA16-30D2											
2/26/01	1643			IA16-40F									X		
2/28/01	0820			IA16-45A	1 BAG								X		
<div> <div>Relinquished (Signature)</div> <div>3/26/01 1200</div> <div>Received by: (Signature)</div> </div> <div> <div>Relinquished (Signature)</div> <div></div> <div>Received by: (Signature)</div> </div> <div> <div>Relinquished (Signature)</div> <div></div> <div>Received for Laboratory by: (Signature)</div> </div>															
<div> <div>Relinquished (Signature)</div> <div></div> <div>Received by: (Signature)</div> </div> <div> <div>Relinquished (Signature)</div> <div></div> <div>Received for Laboratory by: (Signature)</div> </div>															

Split Samples:
☐ Accepted ☐ Declined

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P.O. Box 220182 El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO.		COMMONS UF/RAW		NUTRIENTS UF/H ₂ SO ₄		DISS. METAL F/HNO ₃		CN UF/NaOH		TOTAL METALS UF/HNO ₃		TOTAL RECOVERABLE METALS UF/HNO ₃		BTX		TPH		XRF		ICP/ICP-MS		REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	CON-TAINERS																						
2/24/01	1020			IA16-1F	1 BAG																						
2/29/01	1005			IA16-2E1																							
2/29/01	1005			IA16-2E2																							
2/21/01	0920			IA16-3D																							
2/28/01	0930			IA16-3E																							
2/28/01	1050			IA16-3F																							
2/28/01	1120			IA16-4G																							
2/28/01	1340			IA16-5G																							
2/21/01	1020			IA16-5F																							
2/28/01	1430			IA16-5H1																							
2/28/01	1430			IA16-5H2																							
2/21/01	1118			IA16-7B																							
2/21/01	1405			IA16-8D																							
2/28/01	1505			IA16-8E																							
2/28/01	1515			IA16-8F																							
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, <input checked="" type="checkbox"/> UPS, <input type="checkbox"/> Other		Air Bill #																	
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks																					
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other																				

Hydrometric, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS METHODS										REMARKS	
12592		Closed Plants Invest.		1 BAG													
SAMPLERS: (Signature)				SAMPLE NUMBER													
DATE	TIME	COMP.	GRAB			Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	ICP	REMARKS		
3/5/01	1005			IA17-13B										X	30-31 f		
	1020			IA17-14A											20-21 f		
	1023			IA17-14B											25-26 f		
	1040			IA17-15A											15-16 f		
	1045			IA17-15B											20-21 f		
	1415			IA17-16A											10-11 f		
	1420			IA17-16B											15-16 f		
	1515			IA17-17E											15-16 f		
	1520			IA17-17F1											13-14 f		
3/5/01	1520			IA17-17F2											18-19 f		
3/6/01	1330			IA17-18A													
3/4/01	1340			IA17-18B													
Relinquished (Signature)				Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
3/26/01				1200				TSC, Salt Lake City									
Relinquished (Signature)				Date/Time		Received by: (Signature)		Remarks									
Relinquished (Signature)				Date/Time		Received for Laboratory by: (Signature)		Date/Time									
						3/26/01		1800									
Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other										Split Samples: <input type="checkbox"/> Accented <input type="checkbox"/> Hardened							

Hydrometric, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CON-TAINERS		ANALYSIS						REMARKS				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF	TEP	
3/5/01	1605			IA17-19A	1 BAG									X		0-1 Ft
	1620			IA17-19B												15-16 Ft
	1625			IA17-19C												20-21 Ft
	1710			IA17-20A												18-19 Ft
3/5/01	1715			IA17-20B	1 BAG									X		23-24 Ft
Relinquished (Signature)																
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS						
Relinquished (Signature)		3/26/01 1200				TSX Salt Lake City										
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks										
Relinquished (Signature)																
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits								
Relinquished (Signature)						3/26/01 1000		<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter								

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010372

RECEIVED APR 16 2001

LAE NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010372-001	22-FEB-01	IA16-18C	AS	130	ppm	MEC	03-APR-01		EDXRF
			CD	18	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	1400	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	560	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	220	ppm	MEC	03-APR-01		EDXRF
			AS	80	ppm	MEC	03-APR-01		EDXRF
			CD	13	ppm	MEC	03-APR-01		EDXRF
L010372-002	22-FEB-01	IA16-18D	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	620	ppm	MEC	03-APR-01		EDXRF
			FE	0.95	%	MEC	03-APR-01		EDXRF
			PB	470	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	120	ppm	MEC	03-APR-01		EDXRF
			AS	130	ppm	MEC	03-APR-01		EDXRF
			CD	21	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	1800	ppm	MEC	03-APR-01		EDXRF
L010372-003	22-FEB-01	IA16-18E	FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	680	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	250	ppm	MEC	03-APR-01		EDXRF
			AS	58	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	260	ppm	MEC	03-APR-01		EDXRF
			FE	0.98	%	MEC	03-APR-01		EDXRF
			PB	310	ppm	MEC	03-APR-01		EDXRF
L010372-004	22-FEB-01	IA16-18F	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	82	ppm	MEC	03-APR-01		EDXRF
			AS	58	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	260	ppm	MEC	03-APR-01		EDXRF
			FE	0.98	%	MEC	03-APR-01		EDXRF
			PB	310	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	82	ppm	MEC	03-APR-01		EDXRF
L010372-005	22-FEB-01	IA16-19A	AS	1200	ppm	MEC	03-APR-01		EDXRF
			CD	410	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L010372

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	TEST METHOD
L010372-005	22-FEB-01	IA16-19A	CU	3806	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	6900	ppm	MEC	03-APR-01		EDXRF
			SE	76	ppm	MEC	03-APR-01		EDXRF
			ZN	2400	ppm	MEC	03-APR-01		EDXRF
L010372-006	22-FEB-01	IA16-19B	AS	52	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	300	ppm	MEC	03-APR-01		EDXRF
			FE	0.93	%	MEC	03-APR-01		EDXRF
			PB	440	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	110	ppm	MEC	03-APR-01		EDXRF
L010372-007	22-FEB-01	IA16-19C	AS	100	ppm	MEC	03-APR-01		EDXRF
			CD	40	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	520	ppm	MEC	03-APR-01		EDXRF
			FE	1.2	%	MEC	03-APR-01		EDXRF
			PB	860	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	170	ppm	MEC	03-APR-01		EDXRF
L010372-008	22-FEB-01	IA16-19D	AS	43	ppm	MEC	03-APR-01		EDXRF
			CD	11	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	59	ppm	MEC	03-APR-01		EDXRF
			FE	0.81	%	MEC	03-APR-01		EDXRF
			PB	120	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	<10	ppm	MEC	03-APR-01		EDXRF
L010372-009	22-FEB-01	IA16-20C	AS	1700	ppm	MEC	03-APR-01		EDXRF
			CD	530	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	3900	ppm	MEC	03-APR-01		EDXRF
			FE	2.5	%	MEC	03-APR-01		EDXRF
			PB	11000	ppm	MEC	03-APR-01		EDXRF

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L010372-009	22-FEB-01	IA16-20C	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	3000	ppm	MEC	03-APR-01		EDXRF
L010372-010	22-FEB-01	IA16-20D	AS	1100	ppm	MEC	03-APR-01		EDXRF
			CD	410	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	3700	ppm	MEC	03-APR-01		EDXRF
			FE	2.0	%	MEC	03-APR-01		EDXRF
			PB	7300	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	2300	ppm	MEC	03-APR-01		EDXRF
			AS	450	ppm	MEC	03-APR-01		EDXRF
			CD	120	ppm	MEC	03-APR-01		EDXRF
L010372-011	22-FEB-01	IA16-20E	CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	900	ppm	MEC	03-APR-01		EDXRF
			FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	4100	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	930	ppm	MEC	03-APR-01		EDXRF
			AS	140	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	230	ppm	MEC	03-APR-01		EDXRF
			CU	43	ppm	MEC	03-APR-01		EDXRF
L010372-012	22-FEB-01	IA16-20F	FE	1.9	%	MEC	03-APR-01		EDXRF
			PB	110	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	80	ppm	MEC	03-APR-01		EDXRF
			AS	70	ppm	MEC	03-APR-01		EDXRF
			CD	10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	340	ppm	MEC	03-APR-01		EDXRF
			FE	0.92	%	MEC	03-APR-01		EDXRF
			PB	2000	ppm	MEC	03-APR-01		EDXRF
L010372-013	23-FEB-01	IA16-21G	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	470	ppm	MEC	03-APR-01		EDXRF

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L010372-014	23-FEB-01	IA16-22E	AS	23	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	42	ppm	MEC	03-APR-01		EDXRF
			FE	0.97	%	MEC	03-APR-01		EDXRF
			PB	61	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	27	ppm	MEC	03-APR-01		EDXRF
L010372-015	23-FEB-01	IA16-22F	AS	42	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	39	ppm	MEC	03-APR-01		EDXRF
			FE	1.7	%	MEC	03-APR-01		EDXRF
			PB	39	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	39	ppm	MEC	03-APR-01		EDXRF
L010372-016	23-FEB-01	IA16-23F	AS	140	ppm	MEC	03-APR-01		EDXRF
			CD	49	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	590	ppm	MEC	03-APR-01		EDXRF
			FE	1.5	%	MEC	03-APR-01		EDXRF
			PB	900	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	480	ppm	MEC	03-APR-01		EDXRF
L010372-017	23-FEB-01	IA16-23G1	AS	34	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	47	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	49	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	40	ppm	MEC	03-APR-01		EDXRF
L010372-018	23-FEB-01	IA16-23G2	AS	49	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

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L010372-018	23-FEB-01	IA16-23G2	CU	55	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	50	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	40	ppm	MEC	03-APR-01		EDXRF
L010372-019	23-FEB-01	IA16-24D	AS	100	ppm	MEC	03-APR-01		EDXRF
			CD	22	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	154	ppm	MEC	03-APR-01		EDXRF
			FE	0.83	%	MEC	03-APR-01		EDXRF
			PB	110	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	100	ppm	MEC	03-APR-01		EDXRF
L010372-020	23-FEB-01	IA16-24E	AS	450	ppm	MEC	03-APR-01		EDXRF
			CD	140	ppm	MEC	03-APR-01		EDXRF
			CR	260	ppm	MEC	03-APR-01		EDXRF
			CU	940	ppm	MEC	03-APR-01		EDXRF
			FE	0.96	%	MEC	03-APR-01		EDXRF
			PB	630	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	950	ppm	MEC	03-APR-01		EDXRF
L010372-021	23-FEB-01	IA16-24F	AS	490	ppm	MEC	03-APR-01		EDXRF
			CD	55	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	560	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	1700	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	490	ppm	MEC	03-APR-01		EDXRF
L010372-022	23-FEB-01	IA16-24G	AS	190	ppm	MEC	03-APR-01		EDXRF
			CD	290	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	450	ppm	MEC	03-APR-01		EDXRF
			FE	1.5	%	MEC	03-APR-01		EDXRF
			PB	1300	ppm	MEC	03-APR-01		EDXRF

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L010372-022	23-FEB-01	IA16-24G	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	990	ppm	MEC	03-APR-01		EDXRF
L010372-023	23-FEB-01	IA16-25D	AS	94	ppm	MEC	03-APR-01		EDXRF
			CD	27	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	150	ppm	MEC	03-APR-01		EDXRF
			FE	1.0	%	MEC	03-APR-01		EDXRF
			PB	690	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	130	ppm	MEC	03-APR-01		EDXRF
L010372-024	23-FEB-01	IA16-25E	AS	160	ppm	MEC	03-APR-01		EDXRF
			CD	47	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	700	ppm	MEC	03-APR-01		EDXRF
			FE	1.0	%	MEC	03-APR-01		EDXRF
			PB	1700	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	360	ppm	MEC	03-APR-01		EDXRF
L010372-025	23-FEB-01	IA16-25F	AS	44	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	160	ppm	MEC	03-APR-01		EDXRF
			FE	0.99	%	MEC	03-APR-01		EDXRF
			PB	370	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	69	ppm	MEC	03-APR-01		EDXRF
L010372-026	23-FEB-01	IA16-25G	AS	49	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	64	ppm	MEC	03-APR-01		EDXRF
			FE	1.0	%	MEC	03-APR-01		EDXRF
			PB	200	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	28	ppm	MEC	03-APR-01		EDXRF

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L010372-027	23-FEB-01	IA16-25H	AS	21	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	22	ppm	MEC	03-APR-01		EDXRF
			FE	0.72	%	MEC	03-APR-01		EDXRF
			PB	68	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	31	ppm	MEC	03-APR-01		EDXRF
L010372-028	23-FEB-01	IA16-26A	AS	100	ppm	MEC	03-APR-01		EDXRF
			CD	98	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	590	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	730	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	620	ppm	MEC	03-APR-01		EDXRF
L010372-029	23-FEB-01	IA16-26B	AS	40	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	51	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	68	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	12	ppm	MEC	03-APR-01		EDXRF
L010372-030	23-FEB-01	IA16-26C1	AS	170	ppm	MEC	03-APR-01		EDXRF
			CD	70	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	930	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	2100	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	850	ppm	MEC	03-APR-01		EDXRF
L010372-031	23-FEB-01	IA16-26C2	AS	110	ppm	MEC	03-APR-01		EDXRF
			CD	92	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF

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L010372-031	23-FEB-01	IA16-26C2	CU	770	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	1700	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	720	ppm	MEC	03-APR-01		EDXRF
L010372-032	23-FEB-01	IA16-26D	AS	83	ppm	MEC	03-APR-01		EDXRF
			CD	58	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	340	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	1000	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	200	ppm	MEC	03-APR-01		EDXRF
L010372-033	23-FEB-01	IA16-26E	AS	34	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	42	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	39	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	40	ppm	MEC	03-APR-01		EDXRF
L010372-034	23-FEB-01	IA16-26F	AS	44	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	150	ppm	MEC	03-APR-01		EDXRF
			FE	0.88	%	MEC	03-APR-01		EDXRF
			PB	240	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	65	ppm	MEC	03-APR-01		EDXRF
L010372-035	23-FEB-01	IA16-27F	AS	190	ppm	MEC	03-APR-01		EDXRF
			CD	110	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	500	ppm	MEC	03-APR-01		EDXRF
			FE	1.1	%	MEC	03-APR-01		EDXRF
			PB	1000	ppm	MEC	03-APR-01		EDXRF

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L010372-035	23-FEB-01	IA16-27F	SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	610	ppm	MEC	03-APR-01		EDXRF
L010372-036	23-FEB-01	IA16-27G	AS	71	ppm	MEC	03-APR-01		EDXRF
			CD	48	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	68	ppm	MEC	03-APR-01		EDXRF
			FE	1.6	%	MEC	03-APR-01		EDXRF
			PB	250	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	230	ppm	MEC	03-APR-01		EDXRF
L010372-037	26-FEB-01	IA16-28D	AS	52	ppm	MEC	03-APR-01		EDXRF
			CD	<10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	220	ppm	MEC	03-APR-01		EDXRF
			FE	2.0	%	MEC	03-APR-01		EDXRF
			PB	310	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	120	ppm	MEC	03-APR-01		EDXRF
L010372-038	26-FEB-01	IA16-28E	AS	49	ppm	MEC	03-APR-01		EDXRF
			CD	23	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	210	ppm	MEC	03-APR-01		EDXRF
			FE	2.1	%	MEC	03-APR-01		EDXRF
			PB	120	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	110	ppm	MEC	03-APR-01		EDXRF
L010372-039	26-FEB-01	IA16-28F	AS	22	ppm	MEC	03-APR-01		EDXRF
			CD	10	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	<20	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	35	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	24	ppm	MEC	03-APR-01		EDXRF


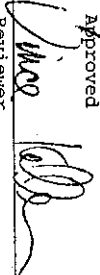
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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010372-040	26-FEB-01	IA16-29G	AS	160	ppm	MEC	03-APR-01		EDXRF
			CD	65	ppm	MEC	03-APR-01		EDXRF
			CR	<200	ppm	MEC	03-APR-01		EDXRF
			CU	150	ppm	MEC	03-APR-01		EDXRF
			FE	1.3	%	MEC	03-APR-01		EDXRF
			PB	180	ppm	MEC	03-APR-01		EDXRF
			SE	<40	ppm	MEC	03-APR-01		EDXRF
			ZN	490	ppm	MEC	03-APR-01		EDXRF

Approved 
 Reviewer 

Hydrometric Inc.

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CHAIN OF CUSTODY RECORD

PROJ. NO. 125902		PROJECT NAME Closed Plants Invest.		NO. OF CON. TAINERS		ANALYSIS								REMARK
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H ₂ SO ₄	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTEX	TPH		
2/22/01	1327			IA16-18C									X	2-3 Ft
	1330			IA16-18D										3-4 Ft
	1335			IA16-18E										4-5 Ft
	1340			IA16-18F										5-6 Ft
	1345			IA16-19A										0-1 Ft
	1348			IA16-19B										1-2 Ft
	1405			IA16-19C										4-5 Ft
	1410			IA16-19D										5-6 Ft
	1500			IA16-20B										3-4 Ft
	1505			IA16-20D										5-6 Ft
	1540			IA16-20E										13-14 Ft
2/22/01	1545			IA16-20F										16-17 Ft
2/23/01	0830			IA16-21G										14-15 Ft
	0906			IA16-22E										8-9 Ft
2/23/01	0915			IA16-22F									X	14-15 Ft
Relinquished (Signature)		Received by: (Signature)		Date/Time		Lab TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS				
Relinquished (Signature)		Received by: (Signature)		Date/Time		TSC		Salt Lake City		Other				
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		3-22-01		1800		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other				
Relinquished (Signature)		Split Samples:		Date/Time		3-22-01		1800		Split Samples:				

Hydrometrix, Inc.

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CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		SAMPLES: (Signature)		NO. OF CONTAINERS		ANALYSIS							REMARKS		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	IBAG	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF	ICP		
2/23/01	1007			IA16-23F	1BAG									X		8-9 ft	
	1010			IA16-23G1												9-10 ft	
	1010			IA16-23G2											X	9-10 ft	
	1107			IA16-24D												3-4 ft	
	1110			IA16-24E												4-5 ft	
	1115			IA16-24F												8-9 ft	
	1117			IA16-24G												11-12 ft	
	1323			IA16-25D												3-4 ft	
	1325			IA16-25E												4-5 ft	
	1327			IA16-25F												5-6 ft	
	1330			IA16-25G												9-10 ft	
	1340			IA16-25H												14-15 ft	
	1420			IA16-26A												1-2 ft	
	1422			IA16-26B												2-3 ft	
2/23/01	1425			IA16-26C1	1BAG											3-4 ft	
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab										Shipped via: Bus, Fed Ex UPS	
Relinquished (Signature)				3/26/01 1200		TSC, Salt Lake City										Other	
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks										Air Bill #	
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time										Enclosed: <input type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter	
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time										Other	

Hydrometric inc.

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CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
125902		Closed Plants Invest.		1 BAG													
SAMPLERS: (Signature)				SAMPLE NUMBER													
[Signature]																	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF	ICP	REMARKS	
2/23/01	1425			IA16-26C2										X		3-4 ft	
	1427			IA16-26D												4-5 ft	
	1430			IA16-26E												6-7 ft	
	1440			IA16-26F												9-10 ft	
	1540			IA16-27F												10-11 ft	
2/23/01	1542			IA16-27G												11-12 ft	
2/24/01	0815			IA16-28D												3.5-4.5	
	0820			IA16-28E												4.5-5.5	
	0822			IA16-28F												5.5-6.5	
2/24/01	0848			IA16-29G										X		8-9 ft	

Relinquished (Signature)		[Signature]		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
3/26/01 1200								ISC, Salt Lake City				Other					
Relinquished (Signature)		[Signature]		Date/Time		Received by: (Signature)		Remarks									
3/26/01 1200																	
Relinquished (Signature)		[Signature]		Date/Time		Received for Laboratory by: (Signature)		Enclosed:									
3/26/01 1200								<input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter									
3/26/01 1200								Split Samples:									

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

CLOSED PLANT (Project 1259V2)

Batch No: L010833

DATE		PARAMETER		VALUE		UNITS		ANALYST		DATE		HOLD	
LAB NO		COLLECTED		DESCRIPTION						ANALYZED		DAYS METHOD	
L010833-001		01-JUN-01		IA15-13A									
L010833-001	01-JUN-01	IA15-13A	AS	38		ppm	LCS			22-JUN-01		EDXRF	
			CD	<10		ppm	LCS			22-JUN-01		EDXRF	
			CR	<80		ppm	LCS			22-JUN-01		EDXRF	
			CU	42		ppm	LCS			22-JUN-01		EDXRF	
			FE	1.9		%	LCS			22-JUN-01		EDXRF	
			PB	57		ppm	LCS			22-JUN-01		EDXRF	
			SE	<20		ppm	LCS			22-JUN-01		EDXRF	
			ZN	15		ppm	LCS			22-JUN-01		EDXRF	
			AS	34		ppm	LCS			22-JUN-01		EDXRF	
			CD	<10		ppm	LCS			22-JUN-01		EDXRF	
L010833-002		01-JUN-01		IA15-13B									
L010833-002	01-JUN-01	IA15-13B	AS	34		ppm	LCS			22-JUN-01		EDXRF	
			CD	<10		ppm	LCS			22-JUN-01		EDXRF	
			CR	<80		ppm	LCS			22-JUN-01		EDXRF	
			CU	50		ppm	LCS			22-JUN-01		EDXRF	
			FE	1.8		%	LCS			22-JUN-01		EDXRF	
			PB	41		ppm	LCS			22-JUN-01		EDXRF	
			SE	<20		ppm	LCS			22-JUN-01		EDXRF	
			ZN	15		ppm	LCS			22-JUN-01		EDXRF	
			AS	33		ppm	LCS			22-JUN-01		EDXRF	
			CD	12		ppm	LCS			22-JUN-01		EDXRF	
L010833-003		01-JUN-01		IA15-13C									
L010833-003	01-JUN-01	IA15-13C	AS	33		ppm	LCS			22-JUN-01		EDXRF	
			CD	12		ppm	LCS			22-JUN-01		EDXRF	
			CR	<80		ppm	LCS			22-JUN-01		EDXRF	
			CU	67		ppm	LCS			22-JUN-01		EDXRF	
			FE	2.0		%	LCS			22-JUN-01		EDXRF	
			PB	40		ppm	LCS			22-JUN-01		EDXRF	
			SE	<20		ppm	LCS			22-JUN-01		EDXRF	
			ZN	<10		ppm	LCS			22-JUN-01		EDXRF	
			AS	40		ppm	LCS			22-JUN-01		EDXRF	
			CD	<10		ppm	LCS			22-JUN-01		EDXRF	
L010833-004		01-JUN-01		IA15-13D									
L010833-004	01-JUN-01	IA15-13D	AS	40		ppm	LCS			22-JUN-01		EDXRF	
			CD	<10		ppm	LCS			22-JUN-01		EDXRF	
			CR	<80		ppm	LCS			22-JUN-01		EDXRF	
			CU	34		ppm	LCS			22-JUN-01		EDXRF	
			FE	1.9		%	LCS			22-JUN-01		EDXRF	
			PB	36		ppm	LCS			22-JUN-01		EDXRF	
			SE	<20		ppm	LCS			22-JUN-01		EDXRF	
			ZN	16		ppm	LCS			22-JUN-01		EDXRF	
			AS	21		ppm	LCS			22-JUN-01		EDXRF	
			CD	<10		ppm	LCS			22-JUN-01		EDXRF	
L010833-005		01-JUN-01		IA15-13E									
L010833-005	01-JUN-01	IA15-13E	AS	21		ppm	LCS			22-JUN-01		EDXRF	
			CD	<10		ppm	LCS			22-JUN-01		EDXRF	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

CLOSED PLANT (Project 1259V2)

Batch No: L010833

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	DAYS METHOD
L010833-005	01-JUN-01	IA15-13E	CU	52	ppm	LCS	22-JUN-01		EDXRF
			FE	0.88	%	LCS	22-JUN-01		EDXRF
			PB	47	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	<10	ppm	LCS	22-JUN-01		EDXRF
L010833-006	01-JUN-01	IA15-13F	AS	27	ppm	LCS	22-JUN-01		EDXRF
			CD	11	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	31	ppm	LCS	22-JUN-01		EDXRF
			FE	1.9	%	LCS	22-JUN-01		EDXRF
			PB	47	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	<10	ppm	LCS	22-JUN-01		EDXRF
L010833-007	01-JUN-01	IA15-13G	AS	32	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	70	ppm	LCS	22-JUN-01		EDXRF
			FE	2.2	%	LCS	22-JUN-01		EDXRF
			PB	42	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	<10	ppm	LCS	22-JUN-01		EDXRF
L010833-008	01-JUN-01	IA15-13H	AS	29	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	<20	ppm	LCS	22-JUN-01		EDXRF
			FE	1.5	%	LCS	22-JUN-01		EDXRF
			PB	46	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	<10	ppm	LCS	22-JUN-01		EDXRF
L010833-009	01-JUN-01	IA15-13I	AS	34	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	82	ppm	LCS	22-JUN-01		EDXRF
			CU	27	ppm	LCS	22-JUN-01		EDXRF
			FE	3.0	%	LCS	22-JUN-01		EDXRF
			PB	38	ppm	LCS	22-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

CLOSED PLANT (Project 1259V2)

Batch No: I010833

LAB NO.	DATE COLLECTED	DESCRIPTION	PARTICLE	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD DATE	TEST METHOD
I010833-009-01	JUN-01	IA15-131	SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	45	ppm	LCS	22-JUN-01		EDXRF
I010833-010-01	JUN-01	IA15-13J	AS	35	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	110	ppm	LCS	22-JUN-01		EDXRF
			CU	48	ppm	LCS	22-JUN-01		EDXRF
			FE	3.3	%	LCS	22-JUN-01		EDXRF
			PB	23	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	80	ppm	LCS	22-JUN-01		EDXRF
I010833-011-01	JUN-01	IA15-14A	AS	17	ppm	LCS	22-JUN-01		EDXRF
			CD	10	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	12	ppm	LCS	22-JUN-01		EDXRF
			FE	1.8	%	LCS	22-JUN-01		EDXRF
			PB	31	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	<10	ppm	LCS	22-JUN-01		EDXRF
I010833-012-01	JUN-01	IA15-14B1	AS	19	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	48	ppm	LCS	22-JUN-01		EDXRF
			FE	1.4	%	LCS	22-JUN-01		EDXRF
			PB	33	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	<10	ppm	LCS	22-JUN-01		EDXRF
I010833-013-01	JUN-01	IA15-14B2	AS	19	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	<20	ppm	LCS	22-JUN-01		EDXRF
			FE	1.5	%	LCS	22-JUN-01		EDXRF
			PB	43	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	<10	ppm	LCS	22-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

CLOSED PLANT (Project 1259V2)

Batch No: L010833

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010833-014	01-JUN-01	IA15-14C	AS	36	ppm	LCS	22-JUN-01		EDXRF
			CD	19	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	27	ppm	LCS	22-JUN-01		EDXRF
			FE	1.7	%	LCS	22-JUN-01		EDXRF
			PB	32	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	55	ppm	LCS	22-JUN-01		EDXRF
			AS	34	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
L010833-015	01-JUN-01	IA15-14D	CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	23	ppm	LCS	22-JUN-01		EDXRF
			FE	1.5	%	LCS	22-JUN-01		EDXRF
			PB	31	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	22	ppm	LCS	22-JUN-01		EDXRF
			AS	87	ppm	LCS	22-JUN-01		EDXRF
			CD	25	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	<20	ppm	LCS	22-JUN-01		EDXRF
L010833-016	01-JUN-01	IA15-14E	FE	1.3	%	LCS	22-JUN-01		EDXRF
			PB	28	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	360	ppm	LCS	22-JUN-01		EDXRF
			AS	87	ppm	LCS	22-JUN-01		EDXRF
			CD	25	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	<20	ppm	LCS	22-JUN-01		EDXRF
			FE	1.3	%	LCS	22-JUN-01		EDXRF
			PB	28	ppm	LCS	22-JUN-01		EDXRF

Approved

Reviewer

Hydrometricalnc.

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO. 1259J2		PROJECT NAME CLOSED PLANTS INVEST.		SAMPLES: (Signature)		NO. OF CON-TAINERS		Commons UF/RAW Nutrients UF/H ₂ SO ₄ Diss. Metal F/HNO ₃ CN UF/NaOH Total Metals UF/HNO ₃ Total Recoverable Metals UF/HNO ₃ BTX TPH XRF							REMARKS	
DATE	TIME	COMP	GRAB	SAMPLE NUMBER												
6-10-11	9:15			IA15-13A		1 bag									20-21	
	9:28			IA15-13B											25-26	
	9:42			IA15-13C											30-31	
	10:24			IA15-13D											40-41	
	10:50			IA15-13E											45-46	
	11:09			IA15-13F											50-51	
	11:35			IA15-13G											55-56	
	11:59			IA15-13H											60-61	
	12:39			IA15-13I											65-66	
	13:00			IA15-13J											70-71	
	16:22			IA15-14A											50-51	
	16:34			IA15-14B1											55-56	
	16:34			IA15-14B2											55-56	
	16:50			IA15-14C											60-61	
	16:50			IA15-14D		1 bag									65-66	
Relinquished (Signature)				Date/Time		Received by: (Signature)		Lab TSC, Salt Lake City Utah.		P.O. #		Shipped via: Bus		Ex JPS		
Relinquished (Signature)				Date/Time		Received by: (Signature)		Remarks				Other		Air Bill #		
Relinquished (Signature)				Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter						

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L001210-009	05-JUN-00	SS2	SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	267.	ppm	MDK	31-AUG-00	6010	
L001210-010	07-JUN-00	OUTCROP 1	AS	15.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	93.	ppm	MDK	31-AUG-00	6010	
			CU	28.	ppm	MDK	31-AUG-00	6010	
			FE	2.5	%	MDK	31-AUG-00	6010	
			PB	24.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	111.	ppm	MDK	31-AUG-00	6010	
L001210-011	05-JUN-00	SS1	AS	30.	ppm	MDK	31-AUG-00	6010	
			CD	1.0	ppm	MDK	31-AUG-00	6010	
			CR	114.	ppm	MDK	31-AUG-00	6010	
			CU	114.	ppm	MDK	31-AUG-00	6010	
			FE	2.2	%	MDK	31-AUG-00	6010	
			PB	59.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	160.	ppm	MDK	31-AUG-00	6010	
L001210-012	05-JUN-00	ANDERSITE 1	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	221.	ppm	MDK	31-AUG-00	6010	
			CU	16.	ppm	MDK	31-AUG-00	6010	
			FE	2.3	%	MDK	31-AUG-00	6010	
			PB	21.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	64.	ppm	MDK	31-AUG-00	6010	
L001210-013	07-JUN-00	OUTCROP 2	AS	12.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	101.	ppm	MDK	31-AUG-00	6010	
			CU	22.	ppm	MDK	31-AUG-00	6010	
			FE	2.2	%	MDK	31-AUG-00	6010	
			PB	25.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	78.	ppm	MDK	31-AUG-00	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L001210-014	27-JUL-00	BL3A	AS	18.	ppm	MDK	31-AUG-00		6010
			CD	4.2	ppm	MDK	31-AUG-00		6010
			CR	158.	ppm	MDK	31-AUG-00		6010
			CU	156.	ppm	MDK	31-AUG-00		6010
			FE	2.0	%	MDK	31-AUG-00		6010
			PB	194.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	166.	ppm	MDK	31-AUG-00		6010
L001210-015	27-JUL-00	BL3B	AS	32.	ppm	MDK	31-AUG-00		6010
			CD	8.4	ppm	MDK	31-AUG-00		6010
			CR	126.	ppm	MDK	31-AUG-00		6010
			CU	311.	ppm	MDK	31-AUG-00		6010
			FE	2.1	%	MDK	31-AUG-00		6010
			PB	285.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	279.	ppm	MDK	31-AUG-00		6010
L001210-016	27-JUL-00	BL3C	AS	14.	ppm	MDK	31-AUG-00		6010
			CD	2.8	ppm	MDK	31-AUG-00		6010
			CR	91.	ppm	MDK	31-AUG-00		6010
			CU	116.	ppm	MDK	31-AUG-00		6010
			FE	2.3	%	MDK	31-AUG-00		6010
			PB	106.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	140.	ppm	MDK	31-AUG-00		6010
L001210-017	27-JUL-00	BL3D	AS	12.	ppm	MDK	31-AUG-00		6010
			CD	2.6	ppm	MDK	31-AUG-00		6010
			CR	102.	ppm	MDK	31-AUG-00		6010
			CU	112.	ppm	MDK	31-AUG-00		6010
			FE	2.2	%	MDK	31-AUG-00		6010
			PB	97.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	256.	ppm	MDK	31-AUG-00		6010
L001210-018	27-JUL-00	BL2A	AS	216.	ppm	MDK	31-AUG-00		6010
			CD	5.2	ppm	MDK	31-AUG-00		6010
			CR	173.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: 1001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
1001210-018	27-JUL-00	BL2A	CU	2960.	ppm	MDK	31-AUG-00	6010	
			FE	7.5	%	MDK	31-AUG-00	6010	
			PB	629.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	5040.	ppm	MDK	31-AUG-00	6010	
1001210-019	27-JUL-00	BL2A2	AS	214.	ppm	MDK	31-AUG-00	6010	
			CD	5.0	ppm	MDK	31-AUG-00	6010	
			CR	226.	ppm	MDK	31-AUG-00	6010	
			CU	2880.	ppm	MDK	31-AUG-00	6010	
			FE	7.3	%	MDK	31-AUG-00	6010	
			PB	630.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	5000.	ppm	MDK	31-AUG-00	6010	
1001210-020	27-JUL-00	BL2B	AS	36.	ppm	MDK	31-AUG-00	6010	
			CD	1.0	ppm	MDK	31-AUG-00	6010	
			CR	114.	ppm	MDK	31-AUG-00	6010	
			CU	522.	ppm	MDK	31-AUG-00	6010	
			FE	2.7	%	MDK	31-AUG-00	6010	
			PB	181.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	1010.	ppm	MDK	31-AUG-00	6010	
1001210-021	27-JUL-00	BL2C	AS	16.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	89.	ppm	MDK	31-AUG-00	6010	
			CU	135.	ppm	MDK	31-AUG-00	6010	
			FE	2.2	%	MDK	31-AUG-00	6010	
			PB	46.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	234.	ppm	MDK	31-AUG-00	6010	
1001210-022	27-JUL-00	BL2D	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	118.	ppm	MDK	31-AUG-00	6010	
			CU	19.	ppm	MDK	31-AUG-00	6010	
			FE	1.8	%	MDK	31-AUG-00	6010	
			PB	26.	ppm	MDK	31-AUG-00	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DATE	METHOD
							ANALYZED	RECEIVED		
L001210-022	27-JUL-00	BL2D	SE	<10.	ppm	MDK	31-AUG-00		6010	
			ZN	45.	ppm	MDK	31-AUG-00		6010	
L001210-023	27-JUL-00	BL2E	AS	<10.	ppm	MDK	31-AUG-00		6010	
			CD	<1.0	ppm	MDK	31-AUG-00		6010	
			CR	89.	ppm	MDK	31-AUG-00		6010	
			CU	15.	ppm	MDK	31-AUG-00		6010	
			FE	0.85	%	MDK	31-AUG-00		6010	
			PB	44.	ppm	MDK	31-AUG-00		6010	
			SE	<10.	ppm	MDK	31-AUG-00		6010	
			ZN	22.	ppm	MDK	31-AUG-00		6010	
L001210-024	27-JUL-00	BL2F	AS	<10.	ppm	MDK	31-AUG-00		6010	
			CD	<1.0	ppm	MDK	31-AUG-00		6010	
			CR	129.	ppm	MDK	31-AUG-00		6010	
			CU	<10.	ppm	MDK	31-AUG-00		6010	
			FE	0.28	%	MDK	31-AUG-00		6010	
			PB	26.	ppm	MDK	31-AUG-00		6010	
			SE	<10.	ppm	MDK	31-AUG-00		6010	
			ZN	<10.	ppm	MDK	31-AUG-00		6010	
L001210-025	26-JUL-00	BL1A	AS	826.	ppm	MDK	31-AUG-00		6010	
			CD	30.	ppm	MDK	31-AUG-00		6010	
			CR	327.	ppm	MDK	31-AUG-00		6010	
			CU	4520.	ppm	MDK	31-AUG-00		6010	
			FE	24.7	%	MDK	31-AUG-00		6010	
			PB	4930.	ppm	MDK	31-AUG-00		6010	
			SE	12.	ppm	MDK	31-AUG-00		6010	
			ZN	21000.	ppm	MDK	31-AUG-00		6010	
L001210-026	26-JUL-00	BL1A2	AS	760.	ppm	MDK	31-AUG-00		6010	
			CD	41.	ppm	MDK	31-AUG-00		6010	
			CR	374.	ppm	MDK	31-AUG-00		6010	
			CU	4490.	ppm	MDK	31-AUG-00		6010	
			FE	23.3	%	MDK	31-AUG-00		6010	
			PB	5570.	ppm	MDK	31-AUG-00		6010	
			SE	22.	ppm	MDK	31-AUG-00		6010	
			ZN	22000.	ppm	MDK	31-AUG-00		6010	

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-027	26-JUL-00	BL1B	AS	181.	ppm	MDK	31-AUG-00	6010	
			CD	7.0	ppm	MDK	31-AUG-00	6010	
			CR	159.	ppm	MDK	31-AUG-00	6010	
			CU	948.	ppm	MDK	31-AUG-00	6010	
			FE	7.2	%	MDK	31-AUG-00	6010	
			PB	1200.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	4290.	ppm	MDK	31-AUG-00	6010	
L001210-028	28-JUL-00	BL4A	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	1.8	ppm	MDK	31-AUG-00	6010	
			CR	105.	ppm	MDK	31-AUG-00	6010	
			CU	50.	ppm	MDK	31-AUG-00	6010	
			FE	1.2	%	MDK	31-AUG-00	6010	
			PB	77.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	85.	ppm	MDK	31-AUG-00	6010	
L001210-029	28-JUL-00	BL4A2	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	1.0	ppm	MDK	31-AUG-00	6010	
			CR	112.	ppm	MDK	31-AUG-00	6010	
			CU	30.	ppm	MDK	31-AUG-00	6010	
			FE	0.71	%	MDK	31-AUG-00	6010	
			PB	50.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	94.	ppm	MDK	31-AUG-00	6010	
L001210-030	28-JUL-00	BL4B	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	53.	ppm	MDK	31-AUG-00	6010	
			CU	14.	ppm	MDK	31-AUG-00	6010	
			FE	0.93	%	MDK	31-AUG-00	6010	
			PB	14.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	28.	ppm	MDK	31-AUG-00	6010	
L001210-031	28-JUL-00	BL4C	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	58.	ppm	MDK	31-AUG-00	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DMS METHOD
L001210-031	28-JUL-00	BL4C	CU	14.	ppm	MDK	31-AUG-00	6010
			FE	1.1	%	MDK	31-AUG-00	6010
			PB	22.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	36.	ppm	MDK	31-AUG-00	6010
L001210-032	28-JUL-00	BL4D	AS	<10.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	76.	ppm	MDK	31-AUG-00	6010
			CU	149.	ppm	MDK	31-AUG-00	6010
			FE	0.57	%	MDK	31-AUG-00	6010
L001210-033	29-JUL-00	BL5A	PB	52.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	48.	ppm	MDK	31-AUG-00	6010
			AS	18.	ppm	MDK	31-AUG-00	6010
			CD	2.6	ppm	MDK	31-AUG-00	6010
L001210-034	29-JUL-00	BL5A2	CR	50.	ppm	MDK	31-AUG-00	6010
			CU	137.	ppm	MDK	31-AUG-00	6010
			FE	0.72	%	MDK	31-AUG-00	6010
			PB	107.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
L001210-035	29-JUL-00	BL5B	ZN	123.	ppm	MDK	31-AUG-00	6010
			AS	14.	ppm	MDK	31-AUG-00	6010
			CD	2.4	ppm	MDK	31-AUG-00	6010
			CR	70.	ppm	MDK	31-AUG-00	6010
			CU	153.	ppm	MDK	31-AUG-00	6010
L001210-036	29-JUL-00	BL5B	FE	0.75	%	MDK	31-AUG-00	6010
			PB	105.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	123.	ppm	MDK	31-AUG-00	6010
			AS	<10.	ppm	MDK	31-AUG-00	6010
L001210-037	29-JUL-00	BL5B	CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	69.	ppm	MDK	31-AUG-00	6010
			CU	18.	ppm	MDK	31-AUG-00	6010
			FE	1.7	%	MDK	31-AUG-00	6010
			PB	31.	ppm	MDK	31-AUG-00	6010

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: 1001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-035	29-JUL-00	BL5B	SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	59.	ppm	MDK	31-AUG-00	6010	
L001210-036	29-JUL-00	BL5C	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	119.	ppm	MDK	31-AUG-00	6010	
			CU	15.	ppm	MDK	31-AUG-00	6010	
			FE	1.3	%	MDK	31-AUG-00	6010	
			PB	24.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	38.	ppm	MDK	31-AUG-00	6010	
L001210-037	29-JUL-00	BL5D	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	68.	ppm	MDK	31-AUG-00	6010	
			CU	12.	ppm	MDK	31-AUG-00	6010	
			FE	1.3	%	MDK	31-AUG-00	6010	
			PB	24.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	40.	ppm	MDK	31-AUG-00	6010	
L001210-038	29-JUL-00	BL5E	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	57.	ppm	MDK	31-AUG-00	6010	
			CU	11.	ppm	MDK	31-AUG-00	6010	
			FE	1.5	%	MDK	31-AUG-00	6010	
			PB	18.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	44.	ppm	MDK	31-AUG-00	6010	
L001210-039	29-JUL-00	BL5F	AS	<10.	ppm	MDK	31-AUG-00	6010	
			CD	<1.0	ppm	MDK	31-AUG-00	6010	
			CR	52.	ppm	MDK	31-AUG-00	6010	
			CU	16.	ppm	MDK	31-AUG-00	6010	
			FE	1.5	%	MDK	31-AUG-00	6010	
			PB	24.	ppm	MDK	31-AUG-00	6010	
			SE	<10.	ppm	MDK	31-AUG-00	6010	
			ZN	44.	ppm	MDK	31-AUG-00	6010	

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

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Approved

Approved _____
Reviewer _____

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ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: I001231

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DMS METHOD
I001231-001	31-JUL-00	BL1C	AS	12.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	52.	ppm	MDK	31-AUG-00	6010
			CU	19.	ppm	MDK	31-AUG-00	6010
			FE	1.9	%	MDK	31-AUG-00	6010
			PB	50.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	52.	ppm	MDK	31-AUG-00	6010
I001231-002	31-JUL-00	BL1D	AS	26.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	58.	ppm	MDK	31-AUG-00	6010
			CU	141.	ppm	MDK	31-AUG-00	6010
			FE	2.2	%	MDK	31-AUG-00	6010
			PB	235.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	596.	ppm	MDK	31-AUG-00	6010
I001231-003	31-JUL-00	BL2G	AS	13.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	66.	ppm	MDK	31-AUG-00	6010
			CU	15.	ppm	MDK	31-AUG-00	6010
			FE	1.0	%	MDK	31-AUG-00	6010
			PB	28.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	28.	ppm	MDK	31-AUG-00	6010
I001231-004	31-JUL-00	BL2H	AS	20.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	62.	ppm	MDK	31-AUG-00	6010
			CU	16.	ppm	MDK	31-AUG-00	6010
			FE	4.4	%	MDK	31-AUG-00	6010
			PB	40.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	40.	ppm	MDK	31-AUG-00	6010
I001231-005	31-JUL-00	BL2I	AS	18.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	78.	ppm	MDK	31-AUG-00	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001231

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001231-005	31-JUL-00	BL21	CU	22.	ppm	MDK	31-AUG-00		6010
			FE	1.4	%	MDK	31-AUG-00		6010
			PB	36.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	90.	ppm	MDK	31-AUG-00		6010
L001231-006	31-JUL-00	BL3E	AS	12.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	69.	ppm	MDK	31-AUG-00		6010
			CU	26.	ppm	MDK	31-AUG-00		6010
			FE	2.1	%	MDK	31-AUG-00		6010
			PB	19.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	99.	ppm	MDK	31-AUG-00		6010
			AS	13.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
L001231-007	31-JUL-00	BL3F	CR	69.	ppm	MDK	31-AUG-00		6010
			CU	24.	ppm	MDK	31-AUG-00		6010
			FE	1.6	%	MDK	31-AUG-00		6010
			PB	15.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	107.	ppm	MDK	31-AUG-00		6010
			AS	<10.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	61.	ppm	MDK	31-AUG-00		6010
			CU	71.	ppm	MDK	31-AUG-00		6010
L001231-008	31-JUL-00	BL4E	FE	0.24	%	MDK	31-AUG-00		6010
			PB	73.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	45.	ppm	MDK	31-AUG-00		6010
			AS	<10.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	44.	ppm	MDK	31-AUG-00		6010
			CU	15.	ppm	MDK	31-AUG-00		6010
			FE	1.7	%	MDK	31-AUG-00		6010
			PB	22.	ppm	MDK	31-AUG-00		6010
L001231-009	01-AUG-00	SS3	AS	<10.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	44.	ppm	MDK	31-AUG-00		6010
			CU	15.	ppm	MDK	31-AUG-00		6010
			FE	1.7	%	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001231

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD ANALYZED	QMS METHOD
L001231-009	01-AUG-00	SS3	SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	50.	ppm	MDK	31-AUG-00	6010
L001231-010	01-AUG-00	SS4	AS	13.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	48.	ppm	MDK	31-AUG-00	6010
			CU	13.	ppm	MDK	31-AUG-00	6010
			FE	1.6	%	MDK	31-AUG-00	6010
			PB	13.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	46.	ppm	MDK	31-AUG-00	6010
L001231-011	02-AUG-00	BLSS-1	AS	20.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	92.	ppm	MDK	31-AUG-00	6010
			CU	36.	ppm	MDK	31-AUG-00	6010
			FE	4.5	%	MDK	31-AUG-00	6010
			PB	22.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	110.	ppm	MDK	31-AUG-00	6010
L001231-012	02-AUG-00	BLSS-2	AS	18.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	116.	ppm	MDK	31-AUG-00	6010
			CU	22.	ppm	MDK	31-AUG-00	6010
			FE	3.6	%	MDK	31-AUG-00	6010
			PB	22.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	78.	ppm	MDK	31-AUG-00	6010
L001231-013	02-AUG-00	BLSS-3	AS	20.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	116.	ppm	MDK	31-AUG-00	6010
			CU	22.	ppm	MDK	31-AUG-00	6010
			FE	2.5	%	MDK	31-AUG-00	6010
			PB	30.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	100.	ppm	MDK	31-AUG-00	6010

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Batch No: L001231

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DMS METHOD
L001231-014	02-AUG-00	BLSS-4	AS	10.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	87.	ppm	MDK	31-AUG-00	6010
			CU	15.	ppm	MDK	31-AUG-00	6010
			FE	3.6	%	MDK	31-AUG-00	6010
			PB	18.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	81.	ppm	MDK	31-AUG-00	6010
L001231-015	02-AUG-00	BLSS-5	AS	<10.	ppm	MDK	31-AUG-00	6010
			CD	<1.0	ppm	MDK	31-AUG-00	6010
			CR	85.	ppm	MDK	31-AUG-00	6010
			CU	13.	ppm	MDK	31-AUG-00	6010
			FE	3.2	%	MDK	31-AUG-00	6010
			PB	18.	ppm	MDK	31-AUG-00	6010
			SE	<10.	ppm	MDK	31-AUG-00	6010
			ZN	129.	ppm	MDK	31-AUG-00	6010



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ASARCO TECHNICAL SERVICES CENTER
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Water and Solid Waste (Project 3220)

Batch No: W6000848

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
W6000848-1		Matrix Spike	AS	101.	%Recovery	MDK	31-AUG-00	6010	
			CD	98.	%Recovery	MDK	31-AUG-00	6010	
			CR	98.	%Recovery	MDK	31-AUG-00	6010	
			CU	112.	%Recovery	MDK	31-AUG-00	6010	
			FE	SR-4XSA	%Recovery	MDK	31-AUG-00	6010	
			PB	98.	%Recovery	MDK	31-AUG-00	6010	
			SE	99.	%Recovery	MDK	31-AUG-00	6010	
			ZN	98.	%Recovery	MDK	31-AUG-00	6010	
W6000848-2		Prep Blank	AS	<0.05	ug/ml	MDK	31-AUG-00	6010	
			CD	<0.005	ug/ml	MDK	31-AUG-00	6010	
			CR	<0.05	ug/ml	MDK	31-AUG-00	6010	
			CU	<0.05	ug/ml	MDK	31-AUG-00	6010	
			FE	<0.05	ug/ml	MDK	31-AUG-00	6010	
			PB	<0.025	ug/ml	MDK	31-AUG-00	6010	
			SE	<0.05	ug/ml	MDK	31-AUG-00	6010	
			ZN	<0.05	ug/ml	MDK	31-AUG-00	6010	
W6000848-3		Lab Control Sample	AS	97.	%Recovery	MDK	31-AUG-00	6010	
			CD	83.	%Recovery	MDK	31-AUG-00	6010	
			CR	92.	%Recovery	MDK	31-AUG-00	6010	
			CU	102.	%Recovery	MDK	31-AUG-00	6010	
			FE	97.	%Recovery	MDK	31-AUG-00	6010	
			PB	94.	%Recovery	MDK	31-AUG-00	6010	
			SE	101.	%Recovery	MDK	31-AUG-00	6010	
			ZN	105.	%Recovery	MDK	31-AUG-00	6010	
W6000848-5		Matrix Spike Duplicate	AS	7.2	% RPD	MDK	31-AUG-00	6010	
			CD	16.6	% RPD	MDK	31-AUG-00	6010	
			CR	9.5	% RPD	MDK	31-AUG-00	6010	
			CU	2.7	% RPD	MDK	31-AUG-00	6010	
			FE	8.2	% RPD	MDK	31-AUG-00	6010	
			PB	9.5	% RPD	MDK	31-AUG-00	6010	
			SE	1.0	% RPD	MDK	31-AUG-00	6010	
			ZN	9.5	% RPD	MDK	31-AUG-00	6010	
W6000848-6		Reporting Limit	AS	10.	ppm			6010	
			CD	1.0	ppm			6010	
			CR	20.	ppm			6010	

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Batch No: WG000848

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
WG000848-6		Reporting Limit	CU	10.	ppm			6010
			FE	20.	ppm			6010
			PB	5.0	ppm			6010
			SE	10.	ppm			6010
			ZN	10.	ppm			6010
WG000848-7		Matrix Spike	AS	94.	%Recovery	MDK	31-AUG-00	6010
			CD	80.	%Recovery	MDK	31-AUG-00	6010
			CR	91.	%Recovery	MDK	31-AUG-00	6010
			CU	106.	%Recovery	MDK	31-AUG-00	6010
			FE	SR>4XSA	%Recovery	MDK	31-AUG-00	6010
			PB	89.	%Recovery	MDK	31-AUG-00	6010
			SE	100.	%Recovery	MDK	31-AUG-00	6010
			ZN	96.	%Recovery	MDK	31-AUG-00	6010
			AS	<0.05	ug/ml	MDK	31-AUG-00	6010
			CD	<0.005	ug/ml	MDK	31-AUG-00	6010
WG000848-8		Prep Blank	CR	<0.05	ug/ml	MDK	31-AUG-00	6010
			CU	<0.05	ug/ml	MDK	31-AUG-00	6010
			FE	<0.05	ug/ml	MDK	31-AUG-00	6010
			PB	<0.025	ug/ml	MDK	31-AUG-00	6010
			SE	<0.05	ug/ml	MDK	31-AUG-00	6010
			ZN	<0.05	ug/ml	MDK	31-AUG-00	6010
			AS	95.	%Recovery	MDK	31-AUG-00	6010
			CD	83.	%Recovery	MDK	31-AUG-00	6010
			CR	97.	%Recovery	MDK	31-AUG-00	6010
			CU	102.	%Recovery	MDK	31-AUG-00	6010
WG000848-9		Lab Control Sample	FE	95.	%Recovery	MDK	31-AUG-00	6010
			PB	93.	%Recovery	MDK	31-AUG-00	6010
			SE	97.	%Recovery	MDK	31-AUG-00	6010
			ZN	97.	%Recovery	MDK	31-AUG-00	6010
			AS	95.	%Recovery	MDK	31-AUG-00	6010
			CD	83.	%Recovery	MDK	31-AUG-00	6010
			CR	97.	%Recovery	MDK	31-AUG-00	6010
			CU	102.	%Recovery	MDK	31-AUG-00	6010
			FE	95.	%Recovery	MDK	31-AUG-00	6010
			PB	93.	%Recovery	MDK	31-AUG-00	6010
WG000848-11		Matrix Spike Duplicate	SE	97.	%Recovery	MDK	31-AUG-00	6010
			ZN	97.	%Recovery	MDK	31-AUG-00	6010
			AS	1.1	% RPD	MDK	31-AUG-00	6010
			CD	2.5	% RPD	MDK	31-AUG-00	6010
			CR	1.1	% RPD	MDK	31-AUG-00	6010
			CU	2.8	% RPD	MDK	31-AUG-00	6010
			FE	3.5	% RPD	MDK	31-AUG-00	6010
			PB	<1.0	% RPD	MDK	31-AUG-00	6010

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Water and Solid Waste (Project 3220)

Batch No: WG000848

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DMS METHOD
WG000848-11		Matrix Spike Duplicate	SE	<1.0	% RPD	MDK	31-AUG-00	6010
			ZN	1.1	% RPD	MDK	31-AUG-00	6010
WG000848-12		Reporting Limit	AS	10.	ppm			6010
			CD	1.0	ppm			6010
			CR	20.	ppm			6010
			CU	10.	ppm			6010
			FE	20.	ppm			6010
			PB	5.0	ppm			6010
			SE	10.	ppm			6010
			ZN	10.	ppm			6010
WG000848-13		Matrix Spike	AS	100.	%Recovery	MDK	31-AUG-00	6010
			CD	94.	%Recovery	MDK	31-AUG-00	6010
			CR	79.	%Recovery	MDK	31-AUG-00	6010
			CU	101.	%Recovery	MDK	31-AUG-00	6010
			FE	SR>4XSA	%Recovery	MDK	31-AUG-00	6010
			PB	98.	%Recovery	MDK	31-AUG-00	6010
			SE	101.	%Recovery	MDK	31-AUG-00	6010
			ZN	98.	%Recovery	MDK	31-AUG-00	6010
WG000848-14		Prep Blank	AS	<0.05	ug/ml	MDK	31-AUG-00	6010
			CD	<0.005	ug/ml	MDK	31-AUG-00	6010
			CR	<0.05	ug/ml	MDK	31-AUG-00	6010
			CU	<0.05	ug/ml	MDK	31-AUG-00	6010
			FE	<0.05	ug/ml	MDK	31-AUG-00	6010
			PB	<0.025	ug/ml	MDK	31-AUG-00	6010
			SE	<0.05	ug/ml	MDK	31-AUG-00	6010
			ZN	<0.05	ug/ml	MDK	31-AUG-00	6010
WG000848-15		Lab Control Sample	AS	103.	%Recovery	MDK	31-AUG-00	6010
			CD	88.	%Recovery	MDK	31-AUG-00	6010
			CR	92.	%Recovery	MDK	31-AUG-00	6010
			CU	107.	%Recovery	MDK	31-AUG-00	6010
			FE	96.	%Recovery	MDK	31-AUG-00	6010
			PB	97.	%Recovery	MDK	31-AUG-00	6010
			SE	82.	%Recovery	MDK	31-AUG-00	6010
			ZN	105.	%Recovery	MDK	31-AUG-00	6010

ASARCO TECHNICAL SERVICES CENTER


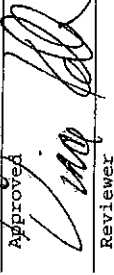
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000848

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000848-17		Matrix Spike Duplicate	AS	3.9	% RPD	MDK	31-AUG-00		6010
			CD	4.2	% RPD	MDK	31-AUG-00		6010
			CR	3.9	% RPD	MDK	31-AUG-00		6010
			CU	2.0	% RPD	MDK	31-AUG-00		6010
			FE	1.3	% RPD	MDK	31-AUG-00		6010
			PB	2.2	% RPD	MDK	31-AUG-00		6010
			SE	3.1	% RPD	MDK	31-AUG-00		6010
			ZN	1.0	% RPD	MDK	31-AUG-00		6010
WG000848-18		Reporting Limit	AS	10.	ppm				6010
			CD	1.0	ppm				6010
			CR	20.	ppm				6010
			CU	10.	ppm				6010
			FE	20.	ppm				6010
			PB	5.0	ppm				6010
			SE	10.	ppm				6010
			ZN	10.	ppm				6010

Approved: 
 Reviewer: 

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: 1001211

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	WET	WET METHOD
1001211-001	28-JUL-00	KMV-1	AS	47	ppm	LCS	22-AUG-00	EDXRF		
			CD	<10	ppm	LCS	22-AUG-00	EDXRF		
			CR	<80	ppm	LCS	22-AUG-00	EDXRF		
			CU	40	ppm	LCS	22-AUG-00	EDXRF		
			FE	3.2	%	LCS	22-AUG-00	EDXRF		
			PB	36	ppm	LCS	22-AUG-00	EDXRF		
			SE	<10	ppm	LCS	22-AUG-00	EDXRF		
			ZN	48	ppm	LCS	22-AUG-00	EDXRF		
1001211-002	28-JUL-00	KMV-2	AS	<10	ppm	LCS	22-AUG-00	EDXRF		
			CD	<10	ppm	LCS	22-AUG-00	EDXRF		
			CR	150	ppm	LCS	22-AUG-00	EDXRF		
			CU	<20	ppm	LCS	22-AUG-00	EDXRF		
			FE	1.4	%	LCS	22-AUG-00	EDXRF		
			PB	56	ppm	LCS	22-AUG-00	EDXRF		
			SE	<10	ppm	LCS	22-AUG-00	EDXRF		
			ZN	81	ppm	LCS	22-AUG-00	EDXRF		
1001211-003	28-JUL-00	KMU-1	AS	23	ppm	LCS	22-AUG-00	EDXRF		
			CD	<10	ppm	LCS	22-AUG-00	EDXRF		
			CR	120	ppm	LCS	22-AUG-00	EDXRF		
			CU	<20	ppm	LCS	22-AUG-00	EDXRF		
			FE	2.3	%	LCS	22-AUG-00	EDXRF		
			PB	61	ppm	LCS	22-AUG-00	EDXRF		
			SE	<10	ppm	LCS	22-AUG-00	EDXRF		
			ZN	47	ppm	LCS	22-AUG-00	EDXRF		
1001211-004	28-JUL-00	KDR-1	AS	<10	ppm	LCS	22-AUG-00	EDXRF		
			CD	<10	ppm	LCS	22-AUG-00	EDXRF		
			CR	<80	ppm	LCS	22-AUG-00	EDXRF		
			CU	<20	ppm	LCS	22-AUG-00	EDXRF		
			FE	0.47	%	LCS	22-AUG-00	EDXRF		
			PB	<10	ppm	LCS	22-AUG-00	EDXRF		
			SE	<10	ppm	LCS	22-AUG-00	EDXRF		
			ZN	20	ppm	LCS	22-AUG-00	EDXRF		
1001211-005	28-JUL-00	UD-1	AS	140	ppm	LCS	22-AUG-00	EDXRF		
			CD	28	ppm	LCS	22-AUG-00	EDXRF		
			CR	99	ppm	LCS	22-AUG-00	EDXRF		

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Water and Solid Waste (Project 3220)

Batch No: L001211

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001211-005	28-JUL-00	UD-1	CU	1200	ppm	LCS	22-AUG-00		EDXRF
			FE	2.5	%	LCS	22-AUG-00		EDXRF
			PB	680	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	530	ppm	LCS	22-AUG-00		EDXRF
L001211-006	28-JUL-00	KAN-1	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	190	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
			FE	0.73	%	LCS	22-AUG-00		EDXRF
			PB	67	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	<10	ppm	LCS	22-AUG-00		EDXRF
			AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
L001211-007	28-JUL-00	KAN-2	CR	140	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
			FE	0.61	%	LCS	22-AUG-00		EDXRF
			PB	71	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	<10	ppm	LCS	22-AUG-00		EDXRF
			AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	140	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
L001211-008	06-JUN-00	VINTONSHALE 1	FE	0.61	%	LCS	22-AUG-00		EDXRF
			PB	71	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	<10	ppm	LCS	22-AUG-00		EDXRF
			AS	34	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	57	ppm	LCS	22-AUG-00		EDXRF
			FE	2.8	%	LCS	22-AUG-00		EDXRF
			PB	25	ppm	LCS	22-AUG-00		EDXRF
L001211-009	05-JUN-00	SS2	SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	33	ppm	LCS	22-AUG-00		EDXRF
			AS	30	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	120	ppm	LCS	22-AUG-00		EDXRF
			CU	440	ppm	LCS	22-AUG-00		EDXRF
			FE	1.9	%	LCS	22-AUG-00		EDXRF
			PB	220	ppm	LCS	22-AUG-00		EDXRF
			AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF

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Water and Solid Waste (Project 3220)

Batch No: L001211

DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOW DAYS METHOD
L001211-009 05-JUN-00	SS2	SE	<10	ppm	LCS	22-AUG-00	EDXRF
		ZN	250	ppm	LCS	22-AUG-00	EDXRF
L001211-010 07-JUN-00	OUTCROP 1	AS	21	ppm	LCS	22-AUG-00	EDXRF
		CD	<10	ppm	LCS	22-AUG-00	EDXRF
		CR	<80	ppm	LCS	22-AUG-00	EDXRF
		CU	52	ppm	LCS	22-AUG-00	EDXRF
		FE	2.5	%	LCS	22-AUG-00	EDXRF
		PB	29	ppm	LCS	22-AUG-00	EDXRF
		SE	<10	ppm	LCS	22-AUG-00	EDXRF
		ZN	69	ppm	LCS	22-AUG-00	EDXRF
L001211-011 05-JUN-00	SS1	AS	34	ppm	LCS	22-AUG-00	EDXRF
		CD	<10	ppm	LCS	22-AUG-00	EDXRF
		CR	140	ppm	LCS	22-AUG-00	EDXRF
		CU	100	ppm	LCS	22-AUG-00	EDXRF
		FE	2.1	%	LCS	22-AUG-00	EDXRF
		PB	71	ppm	LCS	22-AUG-00	EDXRF
		SE	<10	ppm	LCS	22-AUG-00	EDXRF
		ZN	120	ppm	LCS	22-AUG-00	EDXRF
L001211-012 05-JUN-00	ANDERSITE 1	AS	27	ppm	LCS	22-AUG-00	EDXRF
		CD	<10	ppm	LCS	22-AUG-00	EDXRF
		CR	160	ppm	LCS	22-AUG-00	EDXRF
		CU	<20	ppm	LCS	22-AUG-00	EDXRF
		FE	2.4	%	LCS	22-AUG-00	EDXRF
		PB	27	ppm	LCS	22-AUG-00	EDXRF
		SE	<10	ppm	LCS	22-AUG-00	EDXRF
		ZN	35	ppm	LCS	22-AUG-00	EDXRF
L001211-013 07-JUN-00	OUTCROP 2	AS	<10	ppm	LCS	22-AUG-00	EDXRF
		CD	<10	ppm	LCS	22-AUG-00	EDXRF
		CR	<80	ppm	LCS	22-AUG-00	EDXRF
		CU	33	ppm	LCS	22-AUG-00	EDXRF
		FE	2.1	%	LCS	22-AUG-00	EDXRF
		PB	39	ppm	LCS	22-AUG-00	EDXRF
		SE	<10	ppm	LCS	22-AUG-00	EDXRF
		ZN	56	ppm	LCS	22-AUG-00	EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	HOLD	
L001211-014	27-JUL-00	BL3A	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	170	ppm	LCS	22-AUG-00		EDXRF
			CU	160	ppm	LCS	22-AUG-00		EDXRF
			FE	1.8	%	LCS	22-AUG-00		EDXRF
			PB	190	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	140	ppm	LCS	22-AUG-00		EDXRF
L001211-015	27-JUL-00	BL3B	AS	34	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	150	ppm	LCS	22-AUG-00		EDXRF
			CU	340	ppm	LCS	22-AUG-00		EDXRF
			FE	2.1	%	LCS	22-AUG-00		EDXRF
			PB	340	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	240	ppm	LCS	22-AUG-00		EDXRF
L001211-016	27-JUL-00	BL3C	AS	11	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	91	ppm	LCS	22-AUG-00		EDXRF
			CU	98	ppm	LCS	22-AUG-00		EDXRF
			FE	2.3	%	LCS	22-AUG-00		EDXRF
			PB	130	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	120	ppm	LCS	22-AUG-00		EDXRF
L001211-017	27-JUL-00	BL3D	AS	21	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	110	ppm	LCS	22-AUG-00		EDXRF
			CU	120	ppm	LCS	22-AUG-00		EDXRF
			FE	2.2	%	LCS	22-AUG-00		EDXRF
			PB	110	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	130	ppm	LCS	22-AUG-00		EDXRF
L001211-018	27-JUL-00	BL2A	AS	310	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	170	ppm	LCS	22-AUG-00		EDXRF

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L001211-018	27-JUL-00	BL2A						
		CU	2900	ppm	LCS	22-AUG-00		EDXRF
		FE	7.3	%	LCS	22-AUG-00		EDXRF
		PB	800	ppm	LCS	22-AUG-00		EDXRF
		SE	<10	ppm	LCS	22-AUG-00		EDXRF
		ZN	3800	ppm	LCS	22-AUG-00		EDXRF
L001211-019	27-JUL-00	BL2A2						
		AS	310	ppm	LCS	22-AUG-00		EDXRF
		CD	<10	ppm	LCS	22-AUG-00		EDXRF
		CR	270	ppm	LCS	22-AUG-00		EDXRF
		CU	3000	ppm	LCS	22-AUG-00		EDXRF
		FE	7.1	%	LCS	22-AUG-00		EDXRF
		PB	870	ppm	LCS	22-AUG-00		EDXRF
		SE	<10	ppm	LCS	22-AUG-00		EDXRF
		ZN	4000	ppm	LCS	22-AUG-00		EDXRF
L001211-020	27-JUL-00	BL2B						
		AS	49	ppm	LCS	22-AUG-00		EDXRF
		CD	<10	ppm	LCS	22-AUG-00		EDXRF
		CR	190	ppm	LCS	22-AUG-00		EDXRF
		CU	470	ppm	LCS	22-AUG-00		EDXRF
		FE	3.1	%	LCS	22-AUG-00		EDXRF
		PB	150	ppm	LCS	22-AUG-00		EDXRF
		SE	<10	ppm	LCS	22-AUG-00		EDXRF
		ZN	770	ppm	LCS	22-AUG-00		EDXRF
L001211-021	27-JUL-00	BL2C						
		AS	26	ppm	LCS	22-AUG-00		EDXRF
		CD	<10	ppm	LCS	22-AUG-00		EDXRF
		CR	<80	ppm	LCS	22-AUG-00		EDXRF
		CU	120	ppm	LCS	22-AUG-00		EDXRF
		FE	12.6	%	LCS	22-AUG-00		EDXRF
		PB	32	ppm	LCS	22-AUG-00		EDXRF
		SE	<10	ppm	LCS	22-AUG-00		EDXRF
		ZN	190	ppm	LCS	22-AUG-00		EDXRF
L001211-022	27-JUL-00	BL2D						
		AS	14	ppm	LCS	22-AUG-00		EDXRF
		CD	<10	ppm	LCS	22-AUG-00		EDXRF
		CR	<80	ppm	LCS	22-AUG-00		EDXRF
		CU	<20	ppm	LCS	22-AUG-00		EDXRF
		FE	2.2	%	LCS	22-AUG-00		EDXRF
		PB	38	ppm	LCS	22-AUG-00		EDXRF

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L001211-022	27-JUL-00	BL2D	SE	<10	ppm	LCS	22-AUG-00	EDXRF
			ZN	44	ppm	LCS	22-AUG-00	EDXRF
L001211-023	27-JUL-00	BL2E	AS	<10	ppm	LCS	22-AUG-00	EDXRF
			CD	<10	ppm	LCS	22-AUG-00	EDXRF
			CR	<80	ppm	LCS	22-AUG-00	EDXRF
			CU	<20	ppm	LCS	22-AUG-00	EDXRF
			FE	0.92	%	LCS	22-AUG-00	EDXRF
			PB	53	ppm	LCS	22-AUG-00	EDXRF
			SE	<10	ppm	LCS	22-AUG-00	EDXRF
			ZN	<10	ppm	LCS	22-AUG-00	EDXRF
L001211-024	27-JUL-00	BL2F	AS	<10	ppm	LCS	22-AUG-00	EDXRF
			CD	<10	ppm	LCS	22-AUG-00	EDXRF
			CR	88	ppm	LCS	22-AUG-00	EDXRF
			CU	<20	ppm	LCS	22-AUG-00	EDXRF
			FE	0.34	%	LCS	22-AUG-00	EDXRF
			PB	63	ppm	LCS	22-AUG-00	EDXRF
			SE	<10	ppm	LCS	22-AUG-00	EDXRF
			ZN	<10	ppm	LCS	22-AUG-00	EDXRF
L001211-025	26-JUL-00	BL1A	AS	1200	ppm	LCS	22-AUG-00	EDXRF
			CD	44	ppm	LCS	22-AUG-00	EDXRF
			CR	350	ppm	LCS	22-AUG-00	EDXRF
			CU	5900	ppm	LCS	22-AUG-00	EDXRF
			FE	22	%	LCS	22-AUG-00	EDXRF
			PB	6700	ppm	LCS	22-AUG-00	EDXRF
			SE	<10	ppm	LCS	22-AUG-00	EDXRF
			ZN	20000	ppm	LCS	22-AUG-00	EDXRF
L001211-026	26-JUL-00	BL1A2	AS	1000	ppm	LCS	22-AUG-00	EDXRF
			CD	44	ppm	LCS	22-AUG-00	EDXRF
			CR	350	ppm	LCS	22-AUG-00	EDXRF
			CU	5200	ppm	LCS	22-AUG-00	EDXRF
			FE	22	%	LCS	22-AUG-00	EDXRF
			PB	6800	ppm	LCS	22-AUG-00	EDXRF
			SE	<10	ppm	LCS	22-AUG-00	EDXRF
			ZN	21000	ppm	LCS	22-AUG-00	EDXRF

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L001211-027	26-JUL-00	BL1B	AS	180	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	220	ppm	LCS	22-AUG-00		EDXRF
			CU	710	ppm	LCS	22-AUG-00		EDXRF
			FE	5.4	%	LCS	22-AUG-00		EDXRF
			PB	1000	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	2300	ppm	LCS	22-AUG-00		EDXRF
L001211-028	28-JUL-00	BL4A	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	86	ppm	LCS	22-AUG-00		EDXRF
			FE	1.4	%	LCS	22-AUG-00		EDXRF
			PB	85	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	62	ppm	LCS	22-AUG-00		EDXRF
L001211-029	28-JUL-00	BL4A2	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
			FE	0.93	%	LCS	22-AUG-00		EDXRF
			PB	81	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	49	ppm	LCS	22-AUG-00		EDXRF
L001211-030	28-JUL-00	BL4B	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
			FE	1.4	%	LCS	22-AUG-00		EDXRF
			PB	34	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	17	ppm	LCS	22-AUG-00		EDXRF
L001211-031	28-JUL-00	BL4C	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	72	ppm	LCS	22-AUG-00		EDXRF

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L001211-031	28-JUL-00	BL4C	CU	30	ppm	LCS	22-AUG-00		EDXRF
			FE	1.5	%	LCS	22-AUG-00		EDXRF
			PB	42	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	<10	ppm	LCS	22-AUG-00		EDXRF
L001211-032	28-JUL-00	BL4D	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	87	ppm	LCS	22-AUG-00		EDXRF
			FE	0.73	%	LCS	22-AUG-00		EDXRF
L001211-033	29-JUL-00	BL5A	PB	61	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	38	ppm	LCS	22-AUG-00		EDXRF
			AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
L001211-034	29-JUL-00	BL5A2	CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	260	ppm	LCS	22-AUG-00		EDXRF
			FE	1.1	%	LCS	22-AUG-00		EDXRF
			PB	120	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
L001211-035	29-JUL-00	BL5B	ZN	140	ppm	LCS	22-AUG-00		EDXRF
			AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	180	ppm	LCS	22-AUG-00		EDXRF
L001211-036	29-JUL-00	BL5B2	FE	0.97	%	LCS	22-AUG-00		EDXRF
			PB	120	ppm	LCS	22-AUG-00		EDXRF
			SE	11	ppm	LCS	22-AUG-00		EDXRF
			ZN	130	ppm	LCS	22-AUG-00		EDXRF
			AS	<10	ppm	LCS	22-AUG-00		EDXRF
L001211-037	29-JUL-00	BL5B3	CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<110	ppm	LCS	22-AUG-00		EDXRF
			CU	89	ppm	LCS	22-AUG-00		EDXRF
			FE	2.1	%	LCS	22-AUG-00		EDXRF
			PB	26	ppm	LCS	22-AUG-00		EDXRF

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L001211-035	29-JUL-00	BL5B	SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	49	ppm	LCS	22-AUG-00		EDXRF
L001211-036	29-JUL-00	BL5C	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	140	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
			FE	1.4	%	LCS	22-AUG-00		EDXRF
			PB	44	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	27	ppm	LCS	22-AUG-00		EDXRF
L001211-037	29-JUL-00	BL5D	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	110	ppm	LCS	22-AUG-00		EDXRF
			CU	35	ppm	LCS	22-AUG-00		EDXRF
			FE	1.5	%	LCS	22-AUG-00		EDXRF
			PB	31	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	33	ppm	LCS	22-AUG-00		EDXRF
L001211-038	29-JUL-00	BL5E	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
			FE	1.6	%	LCS	22-AUG-00		EDXRF
			PB	40	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	22	ppm	LCS	22-AUG-00		EDXRF
L001211-039	29-JUL-00	BL5F	AS	<10	ppm	LCS	22-AUG-00		EDXRF
			CD	<10	ppm	LCS	22-AUG-00		EDXRF
			CR	<80	ppm	LCS	22-AUG-00		EDXRF
			CU	<20	ppm	LCS	22-AUG-00		EDXRF
			FE	1.6	%	LCS	22-AUG-00		EDXRF
			PB	33	ppm	LCS	22-AUG-00		EDXRF
			SE	<10	ppm	LCS	22-AUG-00		EDXRF
			ZN	22	ppm	LCS	22-AUG-00		EDXRF

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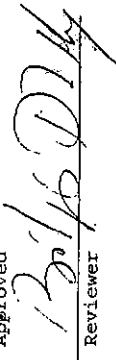
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 Approved
 Reviewer

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Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-001	28-JUL-00	KMW-1	AS	24.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	103.	ppm	MDK	31-AUG-00	6010	
			CU	734.	ppm	MDK	31-AUG-00	6010	
			FE	3.5	%	MDK	31-AUG-00	6010	
			PB	73.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	101.	ppm	MDK	31-AUG-00	6010	
L001210-002	28-JUL-00	KMW-2	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	85.	ppm	MDK	31-AUG-00	6010	
			CU	32.	ppm	MDK	31-AUG-00	6010	
			FE	1.5	%	MDK	31-AUG-00	6010	
			PB	26.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	93.	ppm	MDK	31-AUG-00	6010	
L001210-003	28-JUL-00	KMU-1	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	83.	ppm	MDK	31-AUG-00	6010	
			CU	20.	ppm	MDK	31-AUG-00	6010	
			FE	2.5	%	MDK	31-AUG-00	6010	
			PB	48.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	60.	ppm	MDK	31-AUG-00	6010	
L001210-004	28-JUL-00	KDR-1	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	38.	ppm	MDK	31-AUG-00	6010	
			CU	<20.	ppm	MDK	31-AUG-00	6010	
			FE	0.32	%	MDK	31-AUG-00	6010	
			PB	<20.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	30.	ppm	MDK	31-AUG-00	6010	
L001210-005	28-JUL-00	UD-1	AS	131.	ppm	MDK	31-AUG-00	6010	
			CD	32.	ppm	MDK	31-AUG-00	6010	
			CR	123.	ppm	MDK	31-AUG-00	6010	

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L001210-005	28-JUL-00	UD-1	CU	1310.	ppm	MDK	31-AUG-00	6010	
			FE	2.7	%	MDK	31-AUG-00	6010	
			PB	629.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	619.	ppm	MDK	31-AUG-00	6010	
L001210-006	28-JUL-00	KAN-1	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	242.	ppm	MDK	31-AUG-00	6010	
			CU	20.	ppm	MDK	31-AUG-00	6010	
			FE	0.82.	%	MDK	31-AUG-00	6010	
			PB	34.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	20.	ppm	MDK	31-AUG-00	6010	
L001210-007	28-JUL-00	KAN-2	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	143.	ppm	MDK	31-AUG-00	6010	
			CU	24.	ppm	MDK	31-AUG-00	6010	
			FE	0.60	%	MDK	31-AUG-00	6010	
			PB	34.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	34.	ppm	MDK	31-AUG-00	6010	
L001210-008	06-JUN-00	VINTONSHALE 1	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	110.	ppm	MDK	31-AUG-00	6010	
			CU	33.	ppm	MDK	31-AUG-00	6010	
			FE	2.8	%	MDK	31-AUG-00	6010	
			PB	24.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	157.	ppm	MDK	31-AUG-00	6010	
L001210-009	05-JUN-00	SS2	AS	46.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	107.	ppm	MDK	31-AUG-00	6010	
			CU	344.	ppm	MDK	31-AUG-00	6010	
			FE	1.6	%	MDK	31-AUG-00	6010	
			PB	197.	ppm	MDK	31-AUG-00	6010	

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L061210-009	05-JUN-00	SS2	SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	267.	ppm	MDK	31-AUG-00	6010	
L001210-010	07-JUN-00	OUTCROP 1	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	93.	ppm	MDK	31-AUG-00	6010	
			CU	28.	ppm	MDK	31-AUG-00	6010	
			FE	2.5	%	MDK	31-AUG-00	6010	
			PB	24.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	111.	ppm	MDK	31-AUG-00	6010	
L001210-011	05-JUN-00	SS1	AS	30.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	114.	ppm	MDK	31-AUG-00	6010	
			CU	114.	ppm	MDK	31-AUG-00	6010	
			FE	2.2	%	MDK	31-AUG-00	6010	
			PB	59	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	160.	ppm	MDK	31-AUG-00	6010	
L001210-012	05-JUN-00	ANDERSITE 1	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	221.	ppm	MDK	31-AUG-00	6010	
			CU	<20.	ppm	MDK	31-AUG-00	6010	
			FE	2.3	%	MDK	31-AUG-00	6010	
			PB	21.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	64.	ppm	MDK	31-AUG-00	6010	
L001210-013	07-JUN-00	OUTCROP 2	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	101.	ppm	MDK	31-AUG-00	6010	
			CU	22.	ppm	MDK	31-AUG-00	6010	
			FE	2.2	%	MDK	31-AUG-00	6010	
			PB	25.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	78.	ppm	MDK	31-AUG-00	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD DAYS	METHOD
L001210-014	27-JUL-00	BL3A	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	158.	ppm	MDK	31-AUG-00	6010	
			CU	156.	ppm	MDK	31-AUG-00	6010	
			FE	2.0	%	MDK	31-AUG-00	6010	
			PB	194.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	166.	ppm	MDK	31-AUG-00	6010	
						MDK	31-AUG-00	6010	
L001210-015	27-JUL-00	BL3B	AS	32.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	126.	ppm	MDK	31-AUG-00	6010	
			CU	311.	ppm	MDK	31-AUG-00	6010	
			FE	2.1	%	MDK	31-AUG-00	6010	
			PB	285.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	279.	ppm	MDK	31-AUG-00	6010	
						MDK	31-AUG-00	6010	
L001210-016	27-JUL-00	BL3C	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	91.	ppm	MDK	31-AUG-00	6010	
			CU	116.	ppm	MDK	31-AUG-00	6010	
			FE	2.3	%	MDK	31-AUG-00	6010	
			PB	106.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	140.	ppm	MDK	31-AUG-00	6010	
						MDK	31-AUG-00	6010	
L001210-017	27-JUL-00	BL3D	AS	<20.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	102.	ppm	MDK	31-AUG-00	6010	
			CU	112.	ppm	MDK	31-AUG-00	6010	
			FE	2.2	%	MDK	31-AUG-00	6010	
			PB	97.	ppm	MDK	31-AUG-00	6010	
			SE	<20.	ppm	MDK	31-AUG-00	6010	
			ZN	256.	ppm	MDK	31-AUG-00	6010	
						MDK	31-AUG-00	6010	
L001210-018	27-JUL-00	BL2A	AS	216.	ppm	MDK	31-AUG-00	6010	
			CD	<10.	ppm	MDK	31-AUG-00	6010	
			CR	173.	ppm	MDK	31-AUG-00	6010	