

**ASARCO EL PASO COPPER SMELTER
PHASE III REMEDIAL INVESTIGATION REPORT
EL PASO, TEXAS**

Prepared For:



2301 West Paisano Drive
El Paso, Texas 79922

RECEIVED

NOV 19 2001

**REMEDATION DIVISION
Corrective Action Section**

Prepared By:



Hydrometrics, Inc.®

consulting scientists, engineers and contractors



**VOLUME
III of V**

November 2001

SWR # 31235

CAS DOC # 14721
PROJ. MGR Brid N.

APPENDIX F

Cont'd

PHASE III SURFACE WATER AND
GROUNDWATER ANALYTICAL REPORTS

RECEIVED
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REMEDIATION DIVISION
Corrective Action Section

SECTION F-4

**LAB REPORTS FOR WATER SAMPLES,
WINTER 2001**

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010192

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010192-001	05-FEB-01	EPRI-0102-100	AS	0.072	ppm	CH	12-MAR-01	180	6020
			CA	92.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	154.	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	
			COND.	1597.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	0.045	ppm	MK	05-MAR-01	180	6010
			F-	0.72	ppm	EH	16-FEB-01	28	340.2
			FE	3.3	ppm	MK	05-MAR-01	180	6010
			HCO3	235.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	10.	ppm	MK	05-MAR-01	180	6010
			MG	25.	ppm	MK	05-MAR-01	180	6010
			NA	215.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	05-MAR-01	28	353.2
			PB	0.022	ppm	CH	12-MAR-01	180	6020
			PH	8.0	pH	DC	14-FEB-01	150.1	
			SE	<0.005	ppm	CH	12-MAR-01	180	6020
			SO4=	347.	ppm	JN	02-MAR-01	28	9036
			TDS	1018.	ppm	DC	12-FEB-01	7	160.1
			TSS	94.	ppm	MO	12-FEB-01	160.2	
			ZN	0.042	ppm	CH	12-MAR-01	180	6020
L010192-002	05-FEB-01	EPRI-0102-101	AS	0.064	ppm	CH	12-MAR-01	180	6020
			CA	108.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	681.	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	
			COND.	4830.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	0.078	ppm	MK	05-MAR-01	180	6010
			F-	2.2	ppm	EH	16-FEB-01	28	340.2
			FE	1.5	ppm	MK	05-MAR-01	180	6010
			HCO3	696.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	9.1	ppm	MK	05-MAR-01	180	6010
			MG	46.	ppm	MK	05-MAR-01	180	6010
			NA	748.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	0.19	ppm	JN	05-MAR-01	28	353.2
			PB	0.029	ppm	CH	12-MAR-01	180	6020

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Batch No: L010192

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010192-002	05-FEB-01	EPRI-0102-101	PH	8.0	ppm	DC	14-FEB-01	150.1	
			SE	0.013	ppm	CH	12-MAR-01	180	6020
			SO4=	933.	ppm	JN	02-MAR-01	28	9036
			TDS	3119.	ppm	DC	12-FEB-01	7	160.1
			TSS	18.	ppm	MO	12-FEB-01		160.2
			ZN	0.044	ppm	CH	12-MAR-01	180	6020
			AS	0.026	ppm	CH	12-MAR-01	180	6020
			CA	82.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	272.	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	3170.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
L010192 003	05 FEB 01	EPRI 0102 102	CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	2.6	ppm	EH	16-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	390.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	9.7	ppm	MK	05-MAR-01	180	6010
			MG	30.	ppm	MK	05-MAR-01	180	6010
			NA	562.	ppm	MK	05-MAR-01	28	353.2
			NO2/NO3	0.64	ppm	JN	05-MAR-01	28	6020
			PB	0.004	ppm	CH	12-MAR-01	180	6020
			PH	8.0	ppm	DC	14-FEB-01		150.1
			SE	0.064	ppm	CH	12-MAR-01	180	6020
			SO4=	900.	ppm	JN	02-MAR-01	28	9036
			TDS	2080.	ppm	DC	12-FEB-01	7	160.1
L010192-004	05-FEB-01	EPRI-0102-103	TSS	9.9	ppm	MO	12-FEB-01		160.2
			ZN	<0.020	ppm	CH	12-MAR-01	180	6020
			AS	0.056	ppm	CH	12-MAR-01	180	6020
			CA	77.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	285.	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	2720.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	1.5	ppm	EH	16-FEB-01	28	340.2

ASARCO TECHNICAL SERVICES CENTER

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Batch No: L010192

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DATA	
L010192-004	05-FEB-01	EPRI-0102-103	FE	1.5	ppm	MK	05-MAR-01	180	6010
			HCO3	270.	ppm	DC	14-FEB-01	14	310.1
			K	5.5	ppm	MK	05-MAR-01	180	6010
			MG	25.	ppm	MK	05-MAR-01	180	6010
			NA	460.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	05-MAR-01	28	353.2
			PB	0.006	ppm	CH	12-MAR-01	180	6020
			PH	8.0	pH	DC	14-FEB-01	150.1	
			SE	<0.005	ppm	CH	12-MAR-01	180	6020
			SO4=	722.	ppm	JN	02-MAR-01	28	9036
			TDS	1753.	ppm	DC	12-FEB-01	7	160.1
			TSS	6.8	ppm	MO	12-FEB-01	160.2	
			ZN	0.049	ppm	CH	12-MAR-01	180	6020
			AS	0.066	ppm	CH	12-MAR-01	180	6020
			CA	75.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	273.	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01	310.1	
			COND.	2720.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
L010192-005	05-FEB-01	EPRI-0102-219	CU	<0.025	ppm	MK	05-MAR-01	180	6010
			F-	1.5	ppm	EH	16-FEB-01	28	340.2
			FE	1.6	ppm	MK	05-MAR-01	180	6010
			HCO3	266.	ppm	DC	14-FEB-01	14	310.1
			K	5.3	ppm	MK	05-MAR-01	180	6010
			MG	25.	ppm	MK	05-MAR-01	180	6010
			NA	463.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	05-MAR-01	28	353.2
			PB	0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.9	pH	DC	14-FEB-01	150.1	
			SE	<0.005	ppm	CH	12-MAR-01	180	6020
			SO4=	746.	ppm	JN	02-MAR-01	28	9036
			TDS	1746.	ppm	DC	12-FEB-01	7	160.1
			TSS	11.	ppm	MO	12-FEB-01	160.2	
			ZN	<0.020	ppm	CH	12-MAR-01	180	6020
			AS	<0.005	ppm	CH	12-MAR-01	180	6020
			CA	<1.0	ppm	MK	05-MAR-01	180	6010
L010192-006	05-FEB-01	EPRI-0102-220	AS	<0.005	ppm	CH	12-MAR-01	180	6020
			CA	<1.0	ppm	MK	05-MAR-01	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010192-006	05-FEB-01	EPRI-0102-220	CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	<1.0	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	<5.0	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	<0.050	ppm	EH	16-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	<2.0	ppm	MK	05-MAR-01	180	6010
			MG	<1.0	ppm	MK	05-MAR-01	180	6010
			NA	<2.0	ppm	MK	05-MAR-01	180	353.2
			NO2/NO3	<0.10	ppm	JN	05-MAR-01	28	6020
			PE	<0.003	ppm	CH	12-MAR-01	180	150.1
			PH	5.3	ppm	DC	14-FEB-01		6020
			SE	<0.005	ppm	CH	12-MAR-01	180	9036
			SO4=	<2.0	ppm	JN	02-MAR-01	28	160.1
			TDS	<10.	ppm	DC	12-FEB-01	7	160.2
			TSS	<1.0	ppm	MO	12-FEB-01		6020
			ZN	<0.020	ppm	CH	12-MAR-01	180	6020
L010192-007	08-FEB-01	EPRI-0102-221	AS	<0.005	ppm	CH	12-MAR-01	180	6020
			CA	<1.0	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	<1.0	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	<5.0	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	<0.050	ppm	EH	16-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	<2.0	ppm	MK	05-MAR-01	180	6010
			MG	<1.0	ppm	MK	05-MAR-01	180	6010
			NA	<2.0	ppm	MK	05-MAR-01	180	353.2
			NO2/NO3	<0.10	ppm	JN	05-MAR-01	28	6020
			PE	<0.003	ppm	CH	12-MAR-01	180	150.1
			PH	5.1	ppm	DC	14-FEB-01		6020
			SE	<0.005	ppm	CH	12-MAR-01	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010192-007	08-FEB-01	EPRI-0102-221	SO4=	<2.0	ppm	JN	02-MAR-01	28	9036
			TDS	<10.	ppm	DC	12-FEB-01	7	160.1
			TSS	<1.0	ppm	MO	12-FEB-01		160.2
			ZN	0.035	ppm	CH	12-MAR-01	180	6020
			AS	0.008	ppm	CH	12-MAR-01	180	6020
			CA	145.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	336.	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	2860.	umhos/cm2	BD	13-FEB-01	28	120.1
L010192-008	08-FEB-01	EPRI-0102-174	CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	0.72	ppm	EH	16-FEB-01	28	340.2
			FE	0.14	ppm	MK	05-MAR-01	180	6010
			HCO3	228.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	17.	ppm	MK	05-MAR-01	180	6010
			MG	62.	ppm	MK	05-MAR-01	180	6010
			NA	377.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	7.9	ppm	JN	05-MAR-01	28	353.2
			PB	0.004	ppm	CH	12-MAR-01	180	6020
			PH	7.9	pH	DC	14-FEB-01		150.1
			SE	0.017	ppm	CH	12-MAR-01	180	6020
			SO4=	871.	ppm	JN	02-MAR-01	28	9036
			TDS	1973.	ppm	DC	12-FEB-01	7	160.1
			TSS	7.2	ppm	MO	12-FEB-01		160.2
			ZN	0.037	ppm	CH	12-MAR-01	180	6020
			AS	0.005	ppm	CH	12-MAR-01	180	6020
			CA	149.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	316.	ppm	JN	27-FEB-01	28	325.2
L010192-009	08-FEB-01	EPRI-0102-155	CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	2900.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	0.72	ppm	EH	16-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	231.	ppm CaCO3	DC	14-FEB-01	14	310.1

ASARCO TECHNICAL SERVICES CENTER

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010192-009	08-FEB-01	EPRI-0102-155	K	16.	ppm	MK	05-MAR-01	180	6010
			MG	61.	ppm	MK	05-MAR-01	180	6010
			NA	364.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	9.2	ppm	JN	05-MAR-01	28	353.2
			P8	0.005	ppm	CH	12-MAR-01	180	6020
			PH	7.7	pH	DC	14-FEB-01	180	150.1
			SE	0.018	ppm	CH	12-MAR-01	180	6020
			SO4=	901.	ppm	JN	02-MAR-01	28	9036
			TDS	2000.	ppm	DC	12-FEB-01	7	160.1
			TSS	1.2	ppm	MO	12-FEB-01	180	160.2
			ZN	0.046	ppm	CH	12-MAR-01	180	6020
			AS	0.014	ppm	CH	12-MAR-01	180	6020
			CA	358.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	370.	ppm	JN	27-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01	180	310.1
			COND.	4380.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	28	340.2
			F-	0.73	ppm	EH	16-FEB-01	28	6010
L010192-010	08-FEB-01	EPRI-0102-135	FE	0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	208.	ppm	DC	14-FEB-01	14	310.1
			K	9.5	ppm	MK	05-MAR-01	180	6010
			MG	107.	ppm	MK	05-MAR-01	180	6010
			NA	392.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	15.	ppm	JN	05-MAR-01	28	353.2
			P8	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.5	pH	DC	14-FEB-01	180	150.1
			SE	0.11	ppm	CH	12-MAR-01	180	6020
			SO4=	2105.	ppm	JN	02-MAR-01	28	9036
			TDS	3617.	ppm	DC	12-FEB-01	7	160.1
			TSS	3.8	ppm	MO	12-FEB-01	180	160.2
			ZN	0.030	ppm	CH	12-MAR-01	180	6020
			AS	0.015	ppm	CH	12-MAR-01	180	6020
			CA	432.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	352.	ppm	JN	27-FEB-01	28	325.2
L010192-011	08-FEB-01	EPRI-0102-222	AS	0.015	ppm	CH	12-MAR-01	180	6020
			CA	432.	ppm	MK	05-MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

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El Paso

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Batch No: L010192

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	PREPARED		
L010192-011	08-FEB-01	EPRI-0102-222	CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1	
			COND.	4370.	umhos/cm2	BD	13-FEB-01	28	120.1	
			CR	<0.010	ppm	MK	05-MAR-01	180	6010	
			CU	<0.025	ppm	MK	05-MAR-01		6010	
			F-	0.72	ppm	EH	16-FEB-01	28	340.2	
			FE	0.11	ppm	MK	05-MAR-01	180	6010	
			HCO3	210.	ppm CaCO3	DC	14-FEB-01	14	310.1	
			K	11.	ppm	MK	05-MAR-01	180	6010	
			MG	126.	ppm	MK	05-MAR-01	180	6010	
			NA	429.	ppm	MK	05-MAR-01	180	6010	
			NO2/NO3	13.	ppm	JN	05-MAR-01	28	353.2	
			PB	0.004	ppm	CH	12-MAR-01	180	6020	
			PH	7.5	pH	DC	14-FEB-01		150.1	
			SE	0.11	ppm	CH	12-MAR-01	180	6020	
			SO4=	2119.	ppm	JN	02-MAR-01	28	9036	
			TDS	3551.	ppm	DC	12-FEB-01	7	160.1	
			TSS	3.3	ppm	MO	12-FEB-01		160.2	
			ZN	0.039	ppm	CH	12-MAR-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: WG010176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010176-1		Matrix Spike	AS	97	%Recovery	CH	12-MAR-01		6020
			CD	88	%Recovery	CH	12-MAR-01		6020
			CL-	108	%Recovery	JN	27-FEB-01		325.2
			CR	86	%Recovery	MK	05-MAR-01		6010
			CU	94	%Recovery	MK	05-MAR-01		6010
			F-	102	%Recovery	EH	16-FEB-01		340.2
			FE	87	%Recovery	MK	05-MAR-01		6010
			NO2/NO3	109	%Recovery	JN	05-MAR-01		353.2
			PB	102	%Recovery	CH	12-MAR-01		6020
			SE	95	%Recovery	CH	12-MAR-01		6020
			SO4=	99	%Recovery	JN	02-MAR-01		9036
			ZN	91	%Recovery	CH	12-MAR-01		6020
			AS	<0.005	ppm	CH	12-MAR-01		6020
			CA	<1.0	ppm	MK	05-MAR-01		6010
			CD	<0.005	ppm	CH	12-MAR-01		6020
			CL-	<1.0	ppm	JN	27-FEB-01		325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	<5.0	umhos/cm2	BD	13-FEB-01		120.1
			CR	<0.010	ppm	MK	05-MAR-01		6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
WG010176-2		Prep Blank	F-	<0.050	ppm	EH	16-FEB-01		340.2
			FE	<0.10	ppm	MK	05-MAR-01		6010
			HCO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			K	<2.0	ppm	MK	05-MAR-01		6010
			MG	<1.0	ppm	MK	05-MAR-01		6010
			NA	<2.0	ppm	MK	05-MAR-01		6010
			NO2/NO3	<0.10	ppm	JN	05-MAR-01		353.2
			PB	<0.003	ppm	CH	12-MAR-01		6020
			SE	<0.005	ppm	CH	12-MAR-01		6020
			SO4=	<2.0	ppm	JN	02-MAR-01		9036
			TDS	<10.	ppm	DC	12-FEB-01		160.1
			TSS	<1.0	ppm	MO	12-FEB-01		160.2
			ZN	<0.020	ppm	CH	12-MAR-01		6020
			AS	100	%Recovery	CH	12-MAR-01		6020
			CA	90	%Recovery	MK	05-MAR-01		6010
			CD	95	%Recovery	CH	12-MAR-01		6020
			CL-	101	%Recovery	JN	27-FEB-01		325.2
WG010176-3		Lab Control Sample	AS	100	%Recovery	CH	12-MAR-01		6020
			CA	90	%Recovery	MK	05-MAR-01		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010176-3		Lab Control Sample	CO3	95	\$ Recovery	DC	14-FEB-01	310.1	
			COND.	102	\$ Recovery	BD	13-FEB-01	120.1	
			CR	91	\$ Recovery	MK	05-MAR-01	6010	
			CU	97	\$ Recovery	MK	05-MAR-01	6010	
			F-	91	\$ Recovery	EH	16-FEB-01	340.2	
			FE	90	\$ Recovery	MK	05-MAR-01	6010	
			HCO3	98	\$ Recovery	DC	14-FEB-01	310.1	
			K	93	\$ Recovery	MK	05-MAR-01	6010	
			MG	93	\$ Recovery	MK	05-MAR-01	6010	
			NA	95	\$ Recovery	MK	05-MAR-01	6010	
			NO2/NO3	98	\$ Recovery	JN	05-MAR-01	353.2	
			PB	98	\$ Recovery	CH	12-MAR-01	6020	
			SE	103	\$ Recovery	CH	12-MAR-01	6020	
			SO4=	107	\$ Recovery	JN	02-MAR-01	9036	
			TDS	89	\$ Recovery	DC	12-FEB-01	160.1	
			TSS	97	\$ Recovery	MO	12-FEB-01	160.2	
			ZN	103	\$ Recovery	CH	12-MAR-01	6020	
WG010176-4		Duplicate	CL-	9.6	\$ RPD	JN	27-FEB-01	325.2	
			CO3	<1	\$ RPD	DC	14-FEB-01	310.1	
			COND.	<1	\$ RPD	BD	13-FEB-01	120.1	
			F-	3.6	\$ RPD	EH	16-FEB-01	340.2	
			HCO3	<1	\$ RPD	DC	14-FEB-01	310.1	
			NO2/NO3	<1	\$ RPD	JN	05-MAR-01	353.2	
			SO4=	7.5	\$ RPD	JN	02-MAR-01	9036	
			TDS	<1	\$ RPD	DC	12-FEB-01	160.1	
			TSS	3.2	\$ RPD	MO	12-FEB-01	160.2	
			AS	<1	\$ RPD	CH	12-MAR-01	6020	
WG010176-5		Matrix Spike Duplicate	CA	<1	\$ RPD	MK	05-MAR-01	6010	
			CD	<1	\$ RPD	CH	12-MAR-01	6020	
			CR	<1	\$ RPD	MK	05-MAR-01	6010	
			CU	<1	\$ RPD	MK	05-MAR-01	6010	
			FE	1.2	\$ RPD	MK	05-MAR-01	6010	
			K	4.2	\$ RPD	MK	05-MAR-01	6010	
			MG	<1	\$ RPD	MK	05-MAR-01	6010	
			NA	1.5	\$ RPD	MK	05-MAR-01	6010	
			PB	10.	\$ RPD	CH	12-MAR-01	6020	
			SE	2.3	\$ RPD	CH	12-MAR-01	6020	

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El Paso

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Batch No: WG010176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
WG010176-5		Matrix Spike Duplicate	ZN	2.7	% RPD	CH	12-MAR-01	6020
WG010176-6		Reporting Limit	AS	0.005	ppm			6010
			CA	1.0	ppm			6020
			CD	0.005	ppm			325.2
			CL-	1.0	ppm			310.1
			CO3	1.0	ppm CaCO3			120.1
			COND.	5.0	umhos/cm2			6010
			CR	0.010	ppm			6010
			CU	0.025	ppm			340.2
			F-	0.050	ppm			6010
			FE	0.10	ppm			310.1
			HCO3	1.0	ppm CaCO3			6010
			K	2.0	ppm			6010
			MG	1.0	ppm			6010
			NA	2.0	ppm			353.2
			NO2/NO3	0.10	ppm			6020
			PB	0.003	ppm			6020
			SE	0.005	ppm			9036
			SO4 ⁼⁼	2.0	ppm			160.1
			TDS	10.	ppm			160.2
			TSS	1.0	ppm			6020
			ZN	0.020	ppm			

CH

Approved

[Signature]
Reviser

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS								P.O. #		Shipped via: Bus, Fed Ex, UPS	
124602		ASARCO - EL PASO, TX		3													
SAMPLERS: (Signature)				SAMPLE NUMBER													
DOUGLAS M. SELL																	
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	REMA			
2/5/01	1400			EPR1-0102-100		X	X			X							
	1430			EPR1-0102-101		X	X			X							
	1450			EPR1-0102-102		X	X			X							
	1520			EPR1-0102-103		X	X			X							
	1530			EPR1-0102-219		X	X			X							
	1545			EPR1-0102-220		X	X			X							
2/8/01	1030			EPR1-0102-221		X	X			X							
	1320			EPR1-0102-174		X	X			X							
	1345			EPR1-0102-155		X	X			X							
	1430			EPR1-0102-135		X	X			X							
	1440			EPR1-0102-222		X	X			X							
<div>Relinquished (Signature)</div> <div>Received by: (Signature)</div> <div>Lab</div> <div>Remarks</div> <div>Shipped via: Bus, Fed Ex, UPS</div> <div>Other</div> <div>Air Bill #</div>																	
<div>Relinquished (Signature)</div> <div>Received by: (Signature)</div> <div>Lab</div> <div>Remarks</div> <div>Shipped via: Bus, Fed Ex, UPS</div> <div>Other</div> <div>Air Bill #</div>																	
<div>Relinquished (Signature)</div> <div>Received by: (Signature)</div> <div>Lab</div> <div>Remarks</div> <div>Shipped via: Bus, Fed Ex, UPS</div> <div>Other</div> <div>Air Bill #</div>																	

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010201

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-001	09-FEB-01	EPRI-0102-136	AS	0.008	ppm	CH	12-MAR-01	180	6020
			CA	305.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	694.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	310.1
			COND.	5150.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	180	6010
			F-	0.66	ppm	EH	20-FEB-01	28	340.2
			FE	0.72	ppm	MK	05-MAR-01	180	6010
			HCO3	204.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	14.	ppm	MK	05-MAR-01	180	6010
			MG	131.	ppm	MK	05-MAR-01	180	6010
			NA	752.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	30.	ppm	JN	06-MAR-01	28	353.2
			PB	0.004	ppm	CH	12-MAR-01	180	6020
			PH	7.6	pH	DC	14-FEB-01	180	150.1
			SE	0.33	ppm	CH	12-MAR-01	180	6020
			SO4=	1807.	ppm	JN	02-MAR-01	28	9036
			TDS	3954.	ppm	BD	14-FEB-01	7	160.1
			TSS	25.	ppm	MO	13-FEB-01	180	160.2
			ZN	0.054	ppm	CH	12-MAR-01	180	6020
L010201-002	09-FEB-01	EPRI-0102-138	AS	0.093	ppm	CH	12-MAR-01	180	6020
			CA	298.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	508.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	310.1
			COND.	5860.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	180	6010
			F-	0.80	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	238.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	14.	ppm	MK	05-MAR-01	180	6010
			MG	139.	ppm	MK	05-MAR-01	180	6010
			NA	761.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	65.	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010201

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	DATE	HOLD
L010201-002	09-FEB-01	EPRI-0102-138	PH	7.6	PH	DC	14-FEB-01	180	150.1
			SE	0.19	ppm	CH	12-MAR-01	180	6020
			SO4=	2429.	ppm	JN	02-MAR-01	28	9036
			TDS	4778.	ppm	BD	14-FEB-01	7	160.1
			TSS	2.1	ppm	MO	13-FEB-01	180	160.2
			ZN	0.022	ppm	CH	12-MAR-01	180	6020
			AS	0.11	ppm	CH	12-MAR-01	180	6020
			CA	317.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	510.	ppm	JN	28-FEB-01	28	325.2
L010201-003	09-FEB-01	EPRI-0102-223	CO3	<1.0	ppm CaCO3	DC	14-FEB-01	180	310.1
			COND.	5840.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	180	6010
			F-	0.81	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	234.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	15.	ppm	MK	05-MAR-01	180	6010
			MG	147.	ppm	MK	05-MAR-01	180	6010
			NA	801.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	78.	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.6	PH	DC	14-FEB-01	180	150.1
			SE	0.24	ppm	CH	12-MAR-01	180	6020
			SO4=	2519.	ppm	JN	02-MAR-01	28	9036
			TDS	4783.	ppm	BD	14-FEB-01	7	160.1
			TSS	2.3	ppm	MO	13-FEB-01	180	160.2
			ZN	0.032	ppm	CH	12-MAR-01	180	6020
			AS	0.56	ppm	CH	12-MAR-01	180	6020
			CA	272.	ppm	MK	05-MAR-01	180	6010
L010201-004	09-FEB-01	EPRI-0102-137	CD	0.005	ppm	CH	12-MAR-01	180	6020
			CL-	507.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	180	310.1
			COND.	6030.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	180	6010
			F-	1.0	ppm	EH	20-FEB-01	28	340.2

ASARCO TECHNICAL SERVICES CENTER

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-004	09-FEB-01	EPRI-0102-137	FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	255.	ppm	DC	14 FEB-01	14	310.1
			K	16.	ppm	MK	05-MAR-01	180	6010
			MG	141.	ppm	MK	05-MAR-01	180	6010
			NA	910.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	40.	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.8	pH	DC	14-FEB-01	150.1	
			SE	0.22	ppm	CH	12-MAR-01	180	6020
			SO4=	2580.	ppm	JN	02-MAR-01	28	9036
			TDS	4824.	ppm	BD	14-FEB-01	7	160.1
			TSS	1.9	ppm	MO	13-FEB-01		160.2
			ZN	0.16	ppm	CH	12-MAR-01	180	6020
			AS	0.14	ppm	CH	12-MAR-01	180	6020
			CA	232.	ppm	MK	05-MAR-01	180	6010
			CD	0.006	ppm	CH	12-MAR-01	180	6020
			CL-	447.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01		310.1
			COND.	6330.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
L010201-005	09-FEB-01	EPRI-0102-139	CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	1.1	ppm	EH	20-FEB-01	28	340.2
			FE	0.12	ppm	MK	05-MAR-01	180	6010
			HCO3	271.	ppm	DC	14-FEB-01	14	310.1
			K	13.	ppm	MK	05-MAR-01	180	6010
			MG	178.	ppm	MK	05-MAR-01	180	6010
			NA	962.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	37.	ppm	JN	05-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.6	pH	DC	14-FEB-01		150.1
			SE	4.1	ppm	CH	12-MAR-01	180	6020
			SO4=	2966.	ppm	JN	02-MAR-01	28	9036
			TDS	5239.	ppm	BD	14-FEB-01	7	160.1
			TSS	2.5	ppm	MO	13-FEB-01		160.2
			ZN	0.11	ppm	CH	12-MAR-01	180	6020
			AS	0.57	ppm	CH	12-MAR-01	180	6020
			CA	177.	ppm	MK	05-MAR-01	180	6010
L010201-006	09-FEB-01	EPRI-0102-196	AS	0.57	ppm	CH	12-MAR-01	180	6020
			CA	177.	ppm	MK	05-MAR-01	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-006	09-FEB-01	EPRI-0102-196	CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	412.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01		310.1
			COND.	4150.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	1.2	ppm	EH	20-FEB-01	28	340.2
			FE	0.48	ppm	MK	05-MAR-01	180	6010
			HCO3	256.	ppm	DC	14-FEB-01	14	310.1
			K	12.	ppm	MK	05-MAR-01	180	6010
			MG	70.	ppm	MK	05-MAR-01	180	6010
			NA	676.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	28.	ppm	JN	06-MAR-01	28	353.2
			PB	0.003	ppm	CH	12-MAR-01	180	6020
			PH	8.0	pH	DC	14-FEB-01		150.1
			SE	0.13	ppm	CH	12-MAR-01	180	6020
			SO4=	1353.	ppm	JN	02-MAR-01	28	9036
			TDS	3002.	ppm	BD	14-FEB-01	7	160.1
			TSS	18.	ppm	MO	13-FEB-01		160.2
			ZN	0.051	ppm	CH	12-MAR-01	180	6020
L010201-007	09-FEB-01	EPRI-0102-197	AS	0.007	ppm	CH	12-MAR-01	180	6020
			CA	368.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	3527.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01		310.1
			COND.	10210.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	1.2	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	130.	ppm	DC	14-FEB-01	14	310.1
			K	127.	ppm	MK	05-MAR-01	180	6010
			MG	168.	ppm	MK	05-MAR-01	180	6010
			NA	1343.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	0.22	ppm	JN	05-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.7	pH	DC	14-FEB-01		150.1
			SE	<0.005	ppm	CH	12-MAR-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010201

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-007	09-FEB-01	EPRI-0102-197	SO4=	530.	ppm	JN	02-MAR-01	28	9036
			TDS	6362.	ppm	BD	14-FEB-01	7	160.1
			TSS	2.6	ppm	MO	13-FEB-01		160.2
			ZN	0.069	ppm	CH	12-MAR-01	180	6020
L010201-008	09-FEB-01	EPRI-0102-224	AS	<0.005	ppm	CH	12-MAR-01	180	6020
			CA	<1.0	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	<1.0	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01		310.1
			COND.	<5.0	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	<0.050	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	<1.0	ppm	DC	14-FEB-01	14	310.1
			K	<2.0	ppm	MK	05-MAR-01	180	6010
			MG	<1.0	ppm	MK	05-MAR-01	180	6010
			NA	<2.0	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	5.6	ph	DC	14-FEB-01		150.1
			SE	<0.005	ppm	CH	12-MAR-01	180	6020
			SO4=	<2.0	ppm	JN	02-MAR-01	28	9036
L010201-009	09-FEB-01	EPRI-0102-106	TDS	<10.	ppm	BD	14-FEB-01	7	160.1
			TSS	<1.0	ppm	MO	13-FEB-01		160.2
			ZN	<0.020	ppm	CH	12-MAR-01	180	6020
			AS	23.	ppm	CH	12-MAR-01	180	6020
			CA	224.	ppm	MK	05-MAR-01	180	6010
			CD	0.52	ppm	CH	12-MAR-01	180	6020
			CL-	475.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01		310.1
			COND.	5620.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	1.5	ppm	EH	20-FEB-01	28	340.2
			FE	0.44	ppm	MK	05-MAR-01	180	6010
			HCO3	310.	ppm	DC	14-FEB-01	14	310.1
					ppm	CaCO3			
					ppm	CaCO3			

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	HOLD DAYS	METHOD
L010201-009	09-FEB-01	EPRI-0102-106	K	46.	ppm	MK	05-MAR-01	180	6010
			MG	50.	ppm	MK	05-MAR-01	180	6010
			NA	1502.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	25.	ppm	JN	06-MAR-01	28	353.2
			PB	0.013	ppm	CH	12-MAR-01	180	6020
			PH	7.8	pH	DC	14-FEB-01	150.1	
			SE	4.1	ppm	CH	12-MAR-01	180	6020
			SO4=	2680.	ppm	JN	02-MAR-01	28	9036
			TDS	4527.	ppm	BD	14-FEB-01	7	160.1
			TSS	1.8	ppm	MO	13-FEB-01		160.2
			ZN	0.091	ppm	CH	12-MAR-01	180	6020
			AS	1.6	ppm	CH	12-MAR-01	180	6020
			CA	363.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	821.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	7390.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F	1.0	ppm	EH	20-FEB-01	28	340.2
L010201-010	09-FEB-01	EPRI-0102-105	FE	0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	202.	ppm	DC	14-FEB-01	14	310.1
			K	49.	ppm	MK	05-MAR-01	180	6010
			MG	93.	ppm	MK	05-MAR-01	180	6010
			NA	744.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	78.	ppm	JN	06-MAR-01	28	353.2
			PB	0.004	ppm	CH	12-MAR-01	180	6020
			PH	7.6	pH	DC	14-FEB-01		150.1
			SE	0.32	ppm	CH	12-MAR-01	180	6020
			SO4=	2739.	ppm	JN	02-MAR-01	28	9036
			TDS	5503.	ppm	BD	14-FEB-01	7	160.1
			TSS	11.	ppm	MO	13-FEB-01		160.2
			ZN	0.039	ppm	CH	12-MAR-01	180	6020
			AS	6.3	ppm	CH	12-MAR-01	180	6020
			CA	149.	ppm	MK	05-MAR-01	180	6010
			CD	1.4	ppm	CH	12-MAR-01	180	6020
			CL-	764.	ppm	JN	28 FEB-01	28	325.2
L010201-011	09-FEB-01	EPRI-0102-165							

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SUB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD
L010201-011	09-FEB-01	EPRI-0102-165	CO3	<1.0	ppm CaCO3	DC	14-FEB-01 310.1
			COND.	7420.	umhos/cm2	BD	13-FEB-01 120.1
			CR	<0.010	ppm	MK	05-MAR-01 180 6010
			CU	<0.025	ppm	MK	05-MAR-01 6010
			F-	1.3	ppm	EH	20-FEB-01 28 340.2
			FE	0.31	ppm	MK	05-MAR-01 180 6010
			HCO3	214.	ppm CaCO3	DC	14-FEB-01 14 310.1
			K	52.	ppm	MK	05-MAR-01 180 6010
			MG	51.	ppm	MK	05-MAR-01 180 6010
			NA	1377.	ppm	MK	05-MAR-01 180 6010
			NO2/NO3	82.	ppm	JN	06-MAR-01 28 353.2
			PB	0.004	ppm	CH	12-MAR-01 180 6020
			PH	7.6	ppm	DC	14-FEB-01 150.1
			SE	2.4	ppm	CH	12-MAR-01 180 6020
			SO4=	2476.	ppm	JN	02-MAR-01 28 9036
			TDS	5405.	ppm	BD	14-FEB-01 7 160.1
			TSS	6.7	ppm	MO	13-FEB-01 160.2
			ZN	0.25	ppm	CH	12-MAR-01 180 6020
L010201-012	09-FEB-01	EPRI-0102-166	AS	0.38	ppm	CH	12-MAR-01 180 6020
			CA	79.	ppm	MK	05-MAR-01 180 6010
			CD	0.095	ppm	CH	12-MAR-01 180 6020
			CL-	151.	ppm	JN	28-FEB-01 28 325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01 310.1
			COND.	2300.	umhos/cm2	BD	13-FEB-01 28 120.1
			CR	<0.010	ppm	MK	05-MAR-01 180 6010
			CU	<0.025	ppm	MK	05-MAR-01 6010
			F-	1.5	ppm	EH	20-FEB-01 28 340.2
			FE	1.4	ppm	MK	05-MAR-01 180 6010
			HCO3	250.	ppm CaCO3	DC	14-FEB-01 14 310.1
			K	108.	ppm	MK	05-MAR-01 180 6010
			MG	17.	ppm	MK	05-MAR-01 180 6010
			NA	277.	ppm	JN	06-MAR-01 28 353.2
			NO2/NO3	8.6	ppm	JN	12-MAR-01 180 6020
			PB	0.012	ppm	CH	14-FEB-01 150.1
			PH	7.7.	ppm	DC	12-MAR-01 180 6020
			SE	4.0	ppm	CH	12-MAR-01 180 6020
			SO4=	551.	ppm	JN	02-MAR-01 28 9036
			TDS	1459.	ppm	BD	14-FEB-01 7 160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-012	09-FEB-01	EPRI-0102-166	TSS	14.	ppm	MO	13-FEB-01	160.2	
			ZN	0.077	ppm	CH	12-MAR-01	180	6020
			AS	0.017	ppm	CH	12-MAR-01	180	6020
			CA	230.	ppm	MK	05-MAR-01	180	6010
			CD	0.015	ppm	CH	12-MAR-01	180	6020
			CL-	417.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	CaCO3	14-FEB-01	310.1	
			COND.	4910.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	6010	
			F-	0.79	ppm	EH	20-FEB-01	28	340.2
			FE	0.98	ppm	MK	05-MAR-01	180	6010
			HCO3	253.	ppm	CaCO3	14-FEB-01	14	310.1
			K	12.	ppm	MK	05-MAR-01	180	6010
			MG	108.	ppm	MK	05-MAR-01	180	6010
			NA	700.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	9.0	ppm	JN	06-MAR-01	28	353.2
			PH	0.006	ppm	CH	12-MAR-01	180	6020
			SE	7.6	ph	DC	14-FEB-01	150.1	
			SO4=	0.12	ppm	CH	12-MAR-01	180	6020
			TDS	2071.	ppm	JN	02-MAR-01	28	9036
			TSS	3900.	ppm	BD	14-FEB-01	7	160.1
			ZN	26.	ppm	MO	13-FEB-01	160.2	
				0.067	ppm	CH	12-MAR-01	180	6020
			AS	0.084	ppm	CH	12-MAR-01	180	6020
			CA	122.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	490.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	CaCO3	14-FEB-01	310.1	
			COND.	4570.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	6010	
			F-	2.1	ppm	EH	20-FEB-01	28	340.2
			FE	0.20	ppm	MK	05-MAR-01	180	6010
			HCO3	328.	ppm	CaCO3	14-FEB-01	14	310.1
			K	19.	ppm	MK	05-MAR-01	180	6010
			MG	76.	ppm	MK	05-MAR-01	180	6010

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L010201-014	12-FEB-01	EPRI-0102-168	NA	798.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	11.	ppm	JN	06-MAR-01	28	353.2
			PB	0.003	ppm	CH	12-MAR-01	180	6020
			PH	8.0	pH	DC	14-FEB-01		150.1
			SE	0.10	ppm	CH	12-MAR-01	180	6020
			SO4=	1488.	ppm	JN	02-MAR-01	28	9036
			TDS	3195.	ppm	BD	14-FEB-01	7	160.1
			TSS	11.	ppm	MO	13-FEB-01		160.2
			ZN	0.041	ppm	CH	12-MAR-01	180	6020
			AS	0.087	ppm	CH	12-MAR-01	180	6020
			CA	115.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	490.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	4560.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
L010201-015	12-FEB-01	EPRI-0102-225	F-	2.1	ppm	EH	20-FEB-01	28	340.2
			FE	0.15	ppm	MK	05-MAR-01	180	6010
			HCO3	334.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	19.	ppm	MK	05-MAR-01	180	6010
			MG	72.	ppm	MK	05-MAR-01	180	6010
			NA	772.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	11.	ppm	JN	06-MAR-01	28	353.2
			PB	0.003	ppm	CH	12-MAR-01	180	6020
			PH	8.0	pH	DC	14-FEB-01		150.1
			SE	0.11	ppm	CH	12-MAR-01	180	6020
			SO4=	1439.	ppm	JN	02-MAR-01	28	9036
			TDS	3131.	ppm	BD	14-FEB-01	7	160.1
			TSS	5.9	ppm	MO	13-FEB-01		160.2
			ZN	0.048	ppm	CH	12-MAR-01	180	6020
			AS	0.030	ppm	CH	12-MAR-01	180	6020
			CA	366.	ppm	MK	05-MAR-01	180	6010
			CD	0.005	ppm	CH	12-MAR-01	180	6020
L010201-016	12-FEB-01	EPRI-0102-171	CL-	819.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	5980.	umhos/cm2	BD	13-FEB-01	28	120.1

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L010201	016 12 FEB 01	EPRI 0102 171	CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	28	6010
			F-	0.99	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	MK	05-MAR-01	180	6010
			HCO3	150.	ppm	CaCO3	14-FEB-01	14	310.1
			K	16.	ppm	DC	05-MAR-01	180	6010
			MG	177.	ppm	MK	05-MAR-01	180	6010
			NA	725.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	84.	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.7	pH	DC	14-FEB-01	180	150.1
			SE	0.45	ppm	CH	12-MAR-01	180	6020
			SO4=	1890.	ppm	JN	02-MAR-01	28	9036
			TDS	4607.	ppm	BD	14-FEB-01	7	160.1
			TSS	<1.0	ppm	MO	13-FEB-01	160.2	
			ZN	0.074	ppm	CH	12-MAR-01	180	6020
			AS	<0.005	ppm	CH	12-MAR-01	180	6020
			CA	<1.0	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	<1.0	ppm	JN	28-FEB-01	28	325.2
L010201-017	12-FEB-01	EPRI-0102-226	CO3	<1.0	ppm	CaCO3	14-FEB-01	310.1	
			COND.	<5.0	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	28	340.2
			F-	<0.050	ppm	EH	05-MAR-01	180	6010
			FE	<0.10	ppm	MK	14-FEB-01	14	310.1
			HCO3	<1.0	ppm	CaCO3	05-MAR-01	180	6010
			K	<2.0	ppm	MK	05-MAR-01	180	6010
			MG	<1.0	ppm	MK	05-MAR-01	180	6010
			NA	<2.0	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	5.7	pH	DC	14-FEB-01	180	150.1
			SE	<0.005	ppm	CH	12-MAR-01	180	6020
			SO4=	<2.0	ppm	JN	02-MAR-01	28	9036
			TDS	<10.	ppm	BD	14-FEB-01	7	160.1
			TSS	<1.0	ppm	MO	13-FEB-01	160.2	
			ZN	<0.020	ppm	CH	12-MAR-01	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-018	12-FEB-01	EPRI-0102-156	AS	0.14	ppm	CH	12-MAR-01	180	6020
			CA	256.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	538.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	
			COND.	5660.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	180	6010
			F-	0.44	ppm	EH	20-FEB-01	28	340.2
			FE	1.4	ppm	MK	05-MAR-01	180	6010
			HCO3	300.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	10.	ppm	MK	05-MAR-01	180	6010
			MG	134.	ppm	MK	05-MAR-01	180	6010
			NA	885.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	40.	ppm	JN	06-MAR-01	28	353.2
			PB	0.006	ppm	CH	12-MAR-01	180	6020
			PH	7.7	pH	DC	14-FEB-01	180	150.1
			SE	1.4	ppm	CH	12-MAR-01	180	6020
			SO4=	2043.	ppm	JN	02-MAR-01	28	9036
			TDS	4494.	ppm	BD	14-FEB-01	7	160.1
			TSS	44.	ppm	MO	13-FEB-01	180	160.2
			ZN	0.038	ppm	CH	12-MAR-01	180	6020
L010201-019	12-FEB-01	EPRI-0102-167	AS	0.022	ppm	CH	12-MAR-01	180	6020
			CA	63.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	171.	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	28	310.1
			COND.	5620.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01	180	6010
			F-	0.51	ppm	EH	20-FEB-01	28	340.2
			FE	0.14	ppm	MK	05-MAR-01	180	6010
			HCO3	122.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	3.9	ppm	MK	05-MAR-01	180	6010
			MG	20.	ppm	MK	05-MAR-01	180	6010
			NA	206.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	4.7	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-019	12-FEB-01	EPRI-0102-167	PH	7.8	pH	DC	14-FEB-01	150.1	
			SE	0.29	ppm	CH	12-MAR-01	180	6020
			SO4=	371.	ppm	JN	02-MAR-01	28	9036
			TDS	965.	ppm	BD	14-FEB-01	7	160.1
			TSS	1.2	ppm	MO	13-FEB-01		160.2
			ZN	0.047	ppm	CH	12-MAR-01	180	6020
			AS	0.011	ppm	CH	12-MAR-01	180	6020
			CA	184.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	424.	ppm	JN	23-FEB-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	4520.	umhos/cm2	BD	13-FEB-01	28	120.1
L010201-020	12-FEB-01	EPRI-0102-107	CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	0.87	ppm	EH	20-FEB-01	28	340.2
			FE	1.6	ppm	MK	05-MAR-01	180	6010
			HCO3	292.	ppm CaCO3	DC	14-FEB-01	14	310.1
			K	10.	ppm	MK	05-MAR-01	180	6010
			MG	67.	ppm	MK	05-MAR-01	180	6010
			NA	712.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	34.	ppm	JN	06-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	8.0	pH	DC	14-FEB-01		150.1
			SE	0.27	ppm	CH	12-MAR-01	180	6020
			SO4=	1373.	ppm	JN	02-MAR-01	28	9036
			TDS	3298.	ppm	BD	14-FEB-01	7	160.1
			TSS	91.	ppm	MO	13-FEB-01		160.2
			ZN	0.060	ppm	CH	12-MAR-01	180	6020
			AS	3.3	ppm	CH	12-MAR-01	180	6020
			CA	124.	ppm	MK	05-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	449.	ppm	JN	28-FEB-01	28	325.2
L010201-021	12-FEB-01	EPRI-0102-143	CO3	<1.0	ppm CaCO3	DC	14-FEB-01		310.1
			COND.	4140.	umhos/cm2	BD	13-FEB-01	28	120.1
			CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	<0.025	ppm	MK	05-MAR-01		6010
			F-	2.1	ppm	EH	20-FEB-01	28	340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010201-021	12-FEB-01	EPRI-0102-143	FE	3.8	ppm	MK	05-MAR-01	180	6010
			HCO3	480.	ppm	DC	14-FEB-01	14	310.1
			K	15.	ppm	MK	05-MAR-01	180	6010
			MG	36.	ppm	MK	05-MAR-01	180	6010
			NA	729.	ppm	MK	05-MAR-01	180	6010
			NO2/NO3	0.72	ppm	JN	06-MAR-01	28	353.2
			PB	0.007	ppm	CH	12-MAR-01	180	6020
			PH	8.0	pH	DC	14-FEB-01		150.1
			SE	0.013	ppm	CH	12-MAR-01	180	6020
			SO4=	1334.	ppm	JN	02-MAR-01	28	9036
			TDS	2871.	ppm	BD	14-FEB-01	7	160.1
			TSS	561.	ppm	MO	13-FEB-01		160.2
			ZN	0.050	ppm	CH	12-MAR-01	180	6020
			AS	0.037	ppm	CH	12-MAR-01	180	6020
			CA	9.2	ppm	MK	05-MAR-01	180	6010
			CD	0.031	ppm	CH	12-MAR-01	180	6020
			CL-	6.4	ppm	JN	28-FEB-01	28	325.2
			CO3	<1.0	ppm	DC	14-FEB-01		310.1
			COND.	202.	umhos/cm2	BD	13-FEB-01	28	120.1
L010201-022	12-FEB-01	EPRI-0102-227	CR	<0.010	ppm	MK	05-MAR-01	180	6010
			CU	0.073	ppm	MK	05-MAR-01		6010
			F-	0.19	ppm	EH	20-FEB-01	28	340.2
			FE	0.43	ppm	MK	05-MAR-01	180	6010
			HCO3	16.	ppm	DC	14-FEB-01	14	310.1
			K	<2.0	ppm	MK	05-MAR-01	180	6010
			MG	<1.0	ppm	MK	05-MAR-01	180	6010
			NA	21.	ppm	MK	05-MAR-01	180	353.2
			NO2/NO3	0.16	ppm	JN	06-MAR-01	28	
			PB	0.004	ppm	CH	12-MAR-01	180	6020
			PH	7.9	pH	DC	14-FEB-01		150.1
			SE	<0.005	ppm	CH	12-MAR-01	180	6020
			SO4=	66.	ppm	JN	02-MAR-01	28	9036
			TDS	82.	ppm	BD	14 FEB 01	7	160.1
			TSS	<1.0	ppm	MO	13-FEB-01		160.2
			ZN	0.071	ppm	CH	12-MAR-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

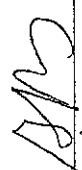
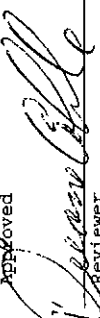
El Paso

Water and Solid Waste (Project 3220)

Batch No: L010201

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.


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010177

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010177-1		Matrix Spike	AS	110	%Recovery	CH	12-MAR-01	6020	
			CD	87	%Recovery	CH	12-MAR-01	6020	
			CL-	99	%Recovery	JN	28-FEB-01	325.2	
			CR	86	%Recovery	MK	05-MAR-01	6010	
			CU	93	%Recovery	MK	05-MAR-01	6010	
			F-	102	%Recovery	EH	20-FEB-01	340.2	
			FE	86	%Recovery	MK	05-MAR-01	6010	
			NO2/NO3	114	%Recovery	JN	06-MAR-01	353.2	
			PB	94	%Recovery	CH	12-MAR-01	6020	
			SE	116	%Recovery	CH	12-MAR-01	6020	
			SO4=	110	%Recovery	JN	02-MAR-01	9036	
			ZN	112	%Recovery	CH	12-MAR-01	6020	
			AS	<0.005	ppm	CH	12-MAR-01	6020	
			CA	<1.0	ppm	MK	05-MAR-01	6010	
			CD	<0.005	ppm	CH	12-MAR-01	6020	
			CL-	<1.0	ppm	JN	28-FEB-01	325.2	
			CO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	
WG010177-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	13-FEB-01	120.1	
			CR	<0.010	ppm	MK	05-MAR-01	6010	
			CU	<0.025	ppm	MK	05-MAR-01	6010	
			F-	<0.050	ppm	EH	20-FEB-01	340.2	
			FE	<0.10	ppm CaCO3	MK	05-MAR-01	6010	
			HCO3	<1.0	ppm	DC	14-FEB-01	310.1	
			K	<2.0	ppm	MK	05-MAR-01	6010	
			Mg	<1.0	ppm	MK	05-MAR-01	6010	
			NA	<2.0	ppm	MK	05-MAR-01	6010	
			NO2/NO3	<0.10	ppm	JN	06-MAR-01	353.2	
			PB	<0.003	ppm	CH	12-MAR-01	6020	
			SE	<0.005	ppm	CH	12-MAR-01	6020	
			SO4=	<2.0	ppm	JN	02-MAR-01	9036	
			TDS	<10.	ppm	BD	14-FEB-01	160.1	
			TSS	<1.0	ppm	MO	13-FEB-01	160.2	
			ZN	<0.020	ppm	CH	12-MAR-01	6020	
WG010177-3		Lab Control Sample	AS	102	%Recovery	CH	12-MAR-01	6020	
			CA	88	%Recovery	MK	05-MAR-01	6010	
			CD	96	%Recovery	CH	12-MAR-01	6020	
			CL-	103	%Recovery	JN	28-FEB-01	325.2	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010177

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010177-3		Lab Control Sample	COND.	101					
			CR	85	% Recovery	BD	13-FEB-01	120.1	
			CU	85	% Recovery	MK	05-MAR-01	6010	
			F-	91	% Recovery	MK	20-FEB-01	340.2	
			FE	85	% Recovery	MK	05-MAR-01	6010	
			HCO3	95	% Recovery	DC	14-FEB-01	310.1	
			K	82	% Recovery	MK	05-MAR-01	6010	
			MG	85	% Recovery	MK	05-MAR-01	6010	
			NA	83	% Recovery	MK	05-MAR-01	6010	
			NO2/NO3	102	% Recovery	JN	06-MAR-01	353.2	
			PB	100	% Recovery	CH	12-MAR-01	6020	
			SE	103	% Recovery	CH	12-MAR-01	6020	
			SO4=	114	% Recovery	JN	02-MAR-01	9036	
			TDS	94	% Recovery	BD	14-FEB-01	160.1	
			TSS	97	% Recovery	MO	13-FEB-01	160.2	
			ZN	83	% Recovery	CH	12-MAR-01	6020	
			CL-	4.9	% RPD	JN	28-FEB-01	325.2	
			CO3	<1	% RPD	DC	14-FEB-01	310.1	
			COND.	<1	% RPD	BD	13-FEB-01	120.1	
			F-	4.4	% RPD	EH	20-FEB-01	340.2	
WG010177-4		Duplicate	HCO3	1.2	% RPD	DC	14-FEB-01	310.1	
			NO2/NO3	11	% RPD	JN	06-MAR-01	353.2	
			SO4=	<1	% RPD	JN	02-MAR-01	9036	
			TDS	<1	% RPD	BD	14-FEB-01	160.1	
			TSS	<1	% RPD	MO	13-FEB-01	160.2	
			AS	15	% RPD	CH	12-MAR-01	6020	
			CA	8.6	% RPD	MK	05-MAR-01	6010	
			CD	14	% RPD	CH	12-MAR-01	6020	
			CR	8.5	% RPD	MK	05-MAR-01	6010	
			CU	7.8	% RPD	MK	05-MAR-01	6010	
WG010177-5		Matrix Spike Duplicate	FE	8.58	% RPD	MK	05-MAR-01	6010	
			K	7.5	% RPD	MK	05-MAR-01	6010	
			MG	8.0	% RPD	MK	05-MAR-01	6010	
			NA	9.1	% RPD	MK	05-MAR-01	6010	
			PB	15	% RPD	CH	12-MAR-01	6020	
			SE	17	% RPD	CH	12-MAR-01	6020	
			ZN	10	% RPD	CH	12-MAR-01	6020	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010177

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DAYS ANALYZED	HOLD DAYS	METHOD
WG010177-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	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				6010
			CU	0.025	ppm				340.2
			F-	0.050	ppm				6010
			FE	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	0.10	ppm				353.2
			PB	0.003	ppm				6020
			SE	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
WG010177-7		Matrix Spike	AS	101	%Recovery	CH	12-MAR-01		6020
			CD	97	%Recovery	CH	12-MAR-01		6020
			CL-	103	%Recovery	JN	28-FEB-01		325.2
			CR	83	%Recovery	MK	05-MAR-01		6010
			CU	88	%Recovery	MK	05-MAR-01		6010
			F-	102	%Recovery	BH	20-FEB-01		340.2
			FE	82	%Recovery	MK	05-MAR-01		6010
			NO2/NO3	113	%Recovery	JN	06-MAR-01		353.2
			PB	114	%Recovery	CH	12-MAR-01		6020
			SE	102	%Recovery	CH	12-MAR-01		6020
			SO4=	126	%Recovery	JN	02-MAR-01		9036
			ZN	100	%Recovery	CH	12-MAR-01		6020
			AS	<0.005	ppm	CH	12-MAR-01		6020
			CA	<1.0	ppm	MK	05-MAR-01		6010
			CD	<0.005	ppm	CH	12-MAR-01		6020
			CL-	<1.0	ppm	JN	28-FEB-01		325.2
WG010177-8		Prep Blank	AS	<0.005	ppm	CH	12-MAR-01		6020
			CA	<1.0	ppm	MK	05-MAR-01		6010
			CD	<0.005	ppm	CH	12-MAR-01		6020
			CL-	<1.0	ppm	JN	28-FEB-01		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010177

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010177-8		Prep Blank	CO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	
			COND.	<5.0	umhos/cm2	BD	13-FEB-01	120.1	
			CR	<0.010	ppm	MK	05-MAR-01	6010	
			CU	<0.025	ppm	MK	05-MAR-01	6010	
			F-	<0.050	ppm	EH	20-FEB-01	340.2	
			FE	<0.10	ppm	MK	05-MAR-01	6010	
			HCO3	<1.0	ppm CaCO3	DC	14-FEB-01	310.1	
			K	<2.0	ppm	MK	05-MAR-01	6010	
			MG	<1.0	ppm	MK	05-MAR-01	6010	
			NA	<2.0	ppm	MK	05-MAR-01	6010	
			NO2/NO3	<0.10	ppm	JN	06-MAR-01	353.2	
			PB	<0.003	ppm	CH	12-MAR-01	6020	
			SE	<0.005	ppm	CH	12-MAR-01	6020	
			SO4=	<2.0	ppm	JN	02-MAR-01	9036	
			TDS	<10.	ppm	BD	14-FEB-01	160.1	
			TSS	<1.0	ppm	MO	13-FEB-01	160.2	
			ZN	<0.020	ppm	CH	12-MAR-01	6020	
			AS	104	%Recovery	CH	12-MAR-01	6020	
			CA	90	%Recovery	MK	05-MAR-01	6010	
			CD	98	%Recovery	CH	12-MAR-01	6020	
WG010177-9		Lab Control Sample	CL-	100	%Recovery	JN	28-FEB-01	325.2	
			COND.	102	%Recovery	BD	13-FEB-01	120.1	
			CR	93	%Recovery	MK	05-MAR-01	6010	
			CU	98	%Recovery	MK	05-MAR-01	6010	
			F-	98	%Recovery	EH	20-FEB-01	340.2	
			FE	90	%Recovery	MK	05-MAR-01	6010	
			HCO3	98	%Recovery	DC	14-FEB-01	310.1	
			K	93	%Recovery	MK	05-MAR-01	6010	
			MG	93	%Recovery	MK	05-MAR-01	6010	
			NA	95	%Recovery	MK	05-MAR-01	6010	
			NO2/NO3	103	%Recovery	JN	06-MAR-01	353.2	
			PB	101	%Recovery	CH	12-MAR-01	6020	
			SE	109	%Recovery	CH	12-MAR-01	6020	
			SO4=	99	%Recovery	JN	02-MAR-01	9036	
			TDS	99	%Recovery	BD	14-FEB-01	160.1	
			TSS	96	%Recovery	MO	13-FEB-01	160.2	
			ZN	111	%Recovery	CH	12-MAR-01	6020	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010177

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	RECEIVED		
WG010177-10		Duplicate	AS	1.7	% RPD	CH	12-MAR-01			6020
			CA	2.9	% RPD	MK	05-MAR-01			6010
			CD	1.9	% RPD	CH	12-MAR-01			6020
			CL-	9.8	% RPD	JN	28-FEB-01			325.2
			CO3	<1	% RPD	DC	14-FEB-01			310.1
			COND.	<1	% RPD	BD	13-FEB-01			120.1
			CR	5.9	% RPD	MK	05-MAR-01			6010
			CU	4.1	% RPD	MK	05-MAR-01			6010
			F-	1.5	% RPD	EH	20-FEB-01			340.2
			FE	5.3	% RPD	MK	05-MAR-01			6010
			HCO3	<1	% RPD	DC	14-FEB-01			310.1
			K	8.5	% RPD	MK	05-MAR-01			6010
			MG	5.6	% RPD	MK	05-MAR-01			6010
			NA	8.7	% RPD	MK	05-MAR-01			353.2
			NO2/NO3	12.	% RPD	JN	06-MAR-01			6020
			PB	16	% RPD	CH	12-MAR-01			6020
			SE	<1	% RPD	CH	12-MAR-01			9036
			SO4=	6.0	% RPD	JN	02-MAR-01			160.1
			TDS	1.2	% RPD	BD	14-FEB-01			160.2
			TSS	<1	% RPD	MO	13-FEB-01			6020
			ZN	22	% RPD	CH	12-MAR-01			

Approved

Reviewer

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3159
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

3275 W. Ina Rd., Ste. 205 • Tucson,
P.O. Box 220182, El Paso, TX 79911

45741 • (520) 544-3150 • FAX (520) 544-3190

85741 • (520) 544-3150 • FAX (520) 544-3151

85741 • (520) 544-3150 • FAX (520) 544-3151

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
DATE	TIME	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	BTEX	TPH	REM.						
2/24/01	815		EPR1-0102-136	3	X	X	X	X	X	X		Shipped via: Bus, Fed Ex, U					
2/24/01	840		EPR1-0102-138	3	X	X	X	X	X	X		Other					
2/24/01	845		EPR1-0102-223	3	X	X	X	X	X	X		Air Bill #					
2/24/01	910		EPR1-0102-137	3	X	X	X	X	X	X							
2/24/01	930		EPR1-0102-139	3	X	X	X	X	X	X							
2/24/01	1020		EPR1-0102-196	3	X	X	X	X	X	X							
2/24/01	1045		EPR1-0102-197	3	X	X	X	X	X	X							
2/24/01	1230		EPR1-0102-224	3	X	X	X	X	X	X							
2/24/01	1315		EPR1-0102-106	3	X	X	X	X	X	X							
2/24/01	1330		EPR1-0102-105	3	X	X	X	X	X	X							
2/24/01	1415		EPR1-0102-165	3	X	X	X	X	X	X							
2/24/01	1445		EPR1-0102-166	3	X	X	X	X	X	X							
2/24/01	945		EPR1-0102-170	3	X	X	X	X	X	X							
2/24/01	1025		EPR1-0102-168	3	X	X	X	X	X	X							
2/24/01	1030		EPR1-0102-225	3	X	X	X	X	X	X							

Received by: (Signature) _____

Received by: (Signature) _____

Received for Laboratory by: (Signature) _____

Date/Time: 2/12/01 1600

Date/Time: _____

Date/Time: _____

Remarks: TSC - SEC 147

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

Return results & electronic copy to:

HEORM-1-4/95

Split Samples: ☐ Accepted ☐ Declined

Signature: _____

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 200, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMAI									
124402		HARRIS - 27000 TX		3											
SAMPLERS: (Signature)															
Dorlean Silva															
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			
2/12/01	1050			2PR1 0102-171	X	X			X						
2/12/01	1115			2PR1 0102-226	X	X			X						
2/12/01	1245			2PR1 0102-156	X	X			X						
2/12/01	1315			2PR1 0102-167	X	X			X						
2/12/01	1340			2PR1 0102-167	X	X			X						
2/12/01	1410			2PR1 0102-143	X	X			X						
2/12/01	1440			2PR1 0102-227	X	X			X						
/															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, U		Other			
[Signature]		2/12/01 1400				TSC 360 AT									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
[Signature]															
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits		QA/QC standard mixing instructions <input type="checkbox"/> Cover letter		Other <input type="checkbox"/>			
[Signature]				[Signature]		2-13-01 0930									
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		Signature													

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

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										P.O. #	Shipped via: Bus, Fed Ex, U Other	Air Bill #
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			
1246VZ ASARCO - EL PASO, TX															
SAMPLERS: (Signature) <i>Douglas M. S...</i>															
3/9/01	815				EPR1-0102-136	X	X	X	X	X	X				
3/9/01	840				EPR1-0102-138	X	X	X	X	X	X				
3/9/01	845				EPR1-0102-223	X	X	X	X	X	X				
3/9/01	910				EPR1-0102-137	X	X	X	X	X	X				
3/9/01	930				EPR1-0102-139	X	X	X	X	X	X				
3/9/01	1020				EPR1-0102-196	X	X	X	X	X	X				
3/9/01	1045				EPR1-0102-197	X	X	X	X	X	X				
3/9/01	1230				EPR1-0102-224	X	X	X	X	X	X				
3/9/01	1315				EPR1-0102-106	X	X	X	X	X	X				
3/9/01	1330				EPR1-0102-105	X	X	X	X	X	X				
3/9/01	1415				EPR1-0102-165	X	X	X	X	X	X				
3/9/01	1445				EPR1-0102-166	X	X	X	X	X	X				
3/12/01	945				EPR1-0102-170	X	X	X	X	X	X				
3/12/01	1025				EPR1-0102-168	X	X	X	X	X	X				
3/12/01	1030				EPR1-0102-225	X	X	X	X	X	X				
Relinquished (Signature) <i>[Signature]</i>			Date/Time	2/12/01 1600											
Relinquished (Signature) <i>[Signature]</i>			Date/Time												
Relinquished (Signature) <i>[Signature]</i>			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															
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: L010224

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	
							ANALYZED	DAYS METHOD
L010224-001	14-FEB-01	EPRI-0102-198	AS	1.8	ppm	EH	14-MAR-01	180 6010
			CA	100.	ppm	EH	14-MAR-01	180 6010
			CD	0.009	ppm	MF	20-MAR-01	180 6020
			CL-	307.	ppm	JN	01-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1
			COND.	3100.	umhos/cm2	DC	20-FEB-01	28 120.1
			CR	<0.010	ppm	EH	14-MAR-01	180 6010
			CU	<0.025	ppm	EH	14-MAR-01	6010
			F-	4.5	ppm	EH	20-FEB-01	28 340.2
			FE	1.2	ppm	EH	14-MAR-01	180 6010
			HCO3	133.	ppm CaCO3	DC	16-FEB-01	14 310.1
			K	34.	ppm	EH	14-MAR-01	180 6010
			MG	24.	ppm	EH	14-MAR-01	180 6010
			NA	508.	ppm	EH	14-MAR-01	180 6010
			NO2/NO3	<0.10	ppm	JN	07-MAR-01	28 353.2
			PB	0.008	ppm	MF	20-MAR-01	180 6020
			PH	7.8	pH	DC	16-FEB-01	180 150.1
			SE	<0.005	ppm	MF	20-MAR-01	180 6020
			SO4=	1088.	ppm	JN	08-MAR-01	28 9036
			TDS	2169.	ppm	DC	19-FEB-01	7 160.1
			TSS	6.8	ppm	DC	19-FEB-01	160.2
			ZN	0.11	ppm	EH	14-MAR-01	180 6010
L010224-002	14-FEB-01	EPRI-0102-199	AS	0.027	ppm	MF	20-MAR-01	180 6020
			CA	92	ppm	EH	14-MAR-01	180 6010
			CD	<0.005	ppm	MF	20-MAR-01	180 6020
			CL-	405.	ppm	JN	01-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1
			COND.	4130.	umhos/cm2	DC	20-FEB-01	28 120.1
			CR	<0.010	ppm	EH	14-MAR-01	180 6010
			CU	<0.025	ppm	EH	14-MAR-01	6010
			F-	1.9	ppm	EH	20-FEB-01	28 340.2
			FE	<0.10	ppm	EH	14-MAR-01	180 6010
			HCO3	320.	ppm CaCO3	DC	16-FEB-01	14 310.1
			K	9.4	ppm	EH	14-MAR-01	180 6010
			MG	57.	ppm	EH	14-MAR-01	180 6010
			NA	630.	ppm	EH	14-MAR-01	180 6010
			NO2/NO3	6.1	ppm	JN	07-MAR-01	28 353.2
			PB	0.007	ppm	MF	20-MAR-01	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010224-002	14-FEB-01	EPRI-0102-199	PH	7.9	PH	DC	15-FEB-01	180	150.1
			SE	0.080	ppm	MF	20-MAR-01	180	6020
			SO4=	1360.	ppm	JN	03-MAR-01	28	9036
			TDS	2896.	ppm	DC	19-FEB-01	7	160.1
			TSS	<1.0	ppm	DC	19-FEB-01		160.2
			ZN	0.050	ppm	EH	14-MAR-01	180	6010
			AS	0.025	ppm	MF	20-MAR-01	180	6020
			CA	96.	ppm	EH	14-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	412.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01		310.1
			COND.	4110.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	14-MAR-01	180	6010
			CU	<0.025	ppm	EH	14-MAR-01		6010
L010224-003	14-FEB-01	EPRI-0102-228	F-	1.8	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	EH	14-MAR-01	180	6010
			HCO3	334.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	9.3	ppm	EH	14-MAR-01	180	6010
			MG	59.	ppm	EH	14-MAR-01	180	6010
			NA	638.	ppm	EH	14-MAR-01	180	6010
			NO2/NO3	6.1	ppm	JN	07-MAR-01	28	353.2
			PB	0.007	ppm	MF	20-MAR-01	180	6020
			PH	7.7	PH	DC	16-FEB-01		150.1
			SE	0.078	ppm	MF	20-MAR-01	180	6020
			SO4=	1374.	ppm	JN	08-MAR-01	28	9036
			TDS	2911.	ppm	DC	19-FEB-01	7	160.1
			TSS	1.0	ppm	DC	19-FEB-01		160.2
			ZN	0.051	ppm	EH	14-MAR-01	180	6010
L010224-004	14-FEB-01	EPRI-0102-154	AS	0.021	ppm	MF	20-MAR-01	180	6020
			CA	67.	ppm	EH	14-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	345.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01		310.1
			COND.	4900.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	14-MAR-01	180	6010
			CU	<0.025	ppm	EH	14-MAR-01		6010
			F-	2.0	ppm	EH	20-FEB-01	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010224-004	14-FEB-01	EPRI-0102-154	FE	0.91	ppm	EH	14-MAR-01	180	6010
			HCO3	444.	ppm-CaCO3	DC	16-FEB-01	14	310.1
			K	6.3	ppm	EH	14-MAR-01	180	6010
			MG	45.	ppm	EH	14-MAR-01	180	6010
			NA	875.	ppm	EH	14-MAR-01	180	6010
			NO2/NO3	5.4	ppm	JN	07-MAR-01	28	353.2
			PB	0.004	ppm	MF	20-MAR-01	180	6020
			PH	7.8	pH	DC	16-FEB-01		150.1
			SE	0.067	ppm	MF	20-MAR-01	180	6020
			SO4=	1778.	ppm	JN	08-MAR-01	28	9036
			TDS	3406.	ppm	DC	19-FEB-01	7	160.1
			TSS	33.	ppm	DC	19-FEB-01		160.2
			ZN	0.056	ppm	EH	14-MAR-01	180	6010
			AS	3.4	ppm	EH	14-MAR-01	180	6010
			CA	412.	ppm	EH	14-MAR-01	180	6010
			CD	0.009	ppm	MF	20-MAR-01	180	6020
			CL-	543.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01		310.1
			COND.	9670.	units/cm2	DC	20-FEB-01	28	120.1
L010224-005	14-FEB-01	EPRI-0102-110	CR	<0.010	ppm	EH	14-MAR-01	180	6010
			CU	0.029	ppm	EH	14-MAR-01		6010
			F-	2.4	ppm	EH	20-FEB-01	28	340.2
			FE	0.14	ppm	EH	14-MAR-01	180	6010
			HCO3	530.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	107.	ppm	EH	14-MAR-01	180	6010
			MG	201.	ppm	EH	14-MAR-01	180	6010
			NA	1504.	ppm	EH	14-MAR-01	180	6010
			NO2/NO3	74.	ppm	JN	07-MAR-01	28	353.2
			PB	0.004	ppm	MF	20-MAR-01	180	6020
			PH	7.7	pH	DC	16-FEB-01		150.1
			SE	1.6	ppm	MF	20-MAR-01	180	6020
			SO4=	4682.	ppm	JN	08-MAR-01	28	9036
			TDS	8216.	ppm	DC	19-FEB-01	7	160.1
			TSS	2.8	ppm	DC	19-FEB-01		160.2
			ZN	0.52	ppm	EH	14-MAR-01	180	6010
			AS	13.	ppm	EH	14-MAR-01	180	6010
			CA	361.	ppm	EH	14-MAR-01	180	6010
L010224-006	14-FEB-01	EPRI-0102-141							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L010224-006	14-FEB-01	EPRI-0102-141	CD	0.007	ppm	MF	20-MAR-01	180
			CL-	330.	ppm	JN	01-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	325.2
			COND.	19010.	umhos/cm2	DC	20-FEB-01	28
			CR	<0.010	ppm	EH	14-MAR-01	180
			CU	0.025	ppm	EH	14-MAR-01	6010
			F-	1.8	ppm	EH	20-FEB-01	28
			FE	0.45	ppm	EH	14-MAR-01	180
			HCO3	560.	ppm CaCO3	DC	16-FEB-01	14
			K	587.	ppm	EH	14-MAR-01	180
			MG	344.	ppm	EH	14-MAR-01	6010
			NA	4119.	ppm	EH	20-MAR-01	180
			NO2/NO3	212.	ppm	JN	07-MAR-01	28
			PB	0.003	ppm	MF	20-MAR-01	180
			PH	7.7	pH	DC	16-FEB-01	150.1
			SE	4.4	ppm	MF	20-MAR-01	180
			SO4=	10383.	ppm	JN	08-MAR-01	28
			TDS	17974.	ppm	DC	19-FEB-01	7
			TSS	24.	ppm	DC	19-FEB-01	160.2
			ZN	0.14	ppm	EH	14-MAR-01	180
								6010
L010224-007	14-FEB-01	EPRI-0102-142	AS	1.5	ppm	EH	14-MAR-01	180
			CA	134.	ppm	EH	14-MAR-01	6010
			CD	<0.005	ppm	MF	20-MAR-01	180
			CL-	433.	ppm	JN	01-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	325.2
			COND.	5540.	umhos/cm2	DC	20-FEB-01	28
			CR	<0.010	ppm	EH	14-MAR-01	180
			CU	<0.025	ppm	EH	14-MAR-01	6010
			F-	2.1	ppm	EH	20-FEB-01	28
			FE	0.18	ppm	EH	14-MAR-01	180
			HCO3	408.	ppm CaCO3	DC	16-FEB-01	14
			K	106.	ppm	EH	14-MAR-01	180
			MG	77.	ppm	EH	14-MAR-01	6010
			NA	754.	ppm	EH	14-MAR-01	180
			NO2/NO3	4.1	ppm	JN	07-MAR-01	28
			PB	0.014	ppm	MF	20-MAR-01	180
			PH	7.9	pH	DC	16-FEB-01	150.1
			SE	0.22	ppm	MF	20-MAR-01	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010224-007	14-FEB-01	EPRI-0102-142	SO4=	1914.	ppm	JN	08-MAR-01	28	9036
			TDS	3627.	ppm	DC	19-FEB-01	7	160.1
			TSS	6.0	ppm	DC	19-FEB-01		160.2
			ZN	0.12	ppm	EH	14-MAR-01	180	6010
			AS	0.015	ppm	MF	20-MAR-01	180	6020
			CA	34.	ppm	EH	14-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	338.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01		310.1
			COND.	3120.	umhos/cm2	DC	20-FEB-01	28	120.1
L010224-008	14-FEB-01	EPRI-0102-159	CR	<0.010	ppm	EH	14-MAR-01	180	6010
			CU	<0.025	ppm	EH	14-MAR-01		6010
			F-	3.9	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	EH	14-MAR-01	180	6010
			HCO3	320.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	<2.0	ppm	EH	14-MAR-01	180	6010
			MG	56.	ppm	EH	14-MAR-01	180	6010
			NA	529.	ppm	EH	14-MAR-01	180	6010
			NO2/NO3	8.2	ppm	JN	07-MAR-01	28	353.2
			PB	<0.003	ppm	MF	20-MAR-01	180	6020
			PH	7.4	pH	DC	16-FEB-01		150.1
			SE	0.028	ppm	MF	20-MAR-01	180	6020
			SO4=	825.	ppm	JN	08-MAR-01	28	9036
			TDS	2065.	ppm	DC	19-FEB-01	7	160.1
			TSS	1.4	ppm	DC	19-FEB-01		160.2
			ZN	0.031	ppm	EH	14-MAR-01	180	6010
			AS	0.013	ppm	MF	20-MAR-01	180	6020
			CA	99.	ppm	EH	14-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	571.	ppm	JN	01-MAR-01	28	325.2
L010224-009	14-FEB-01	EPRI-0102-158	CO3	<1.0	ppm CaCO3	DC	16-FEB-01		310.1
			COND.	4720.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	14-MAR-01	180	6010
			CU	<0.025	ppm	EH	14-MAR-01		6010
			F-	1.3	ppm	EH	20-FEB-01	28	340.2
			FE	0.19	ppm	EH	14-MAR-01	180	6010
			HCO3	466.	ppm CaCO3	DC	16-FEB-01	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010224-009	14-FEB-01	EPRI-0102-158	K	11.	ppm	EH	14-MAR-01	180	6010
			MG	98.	ppm	EH	14-MAR-01	180	6010
			NA	761.	ppm	EH	14-MAR-01	180	6010
			NO2/NO3	11.	ppm	JN	07-MAR-01	28	353.2
			PB	<0.003	ppm	MF	20-MAR-01	180	6020
			PH	7.5	pH	DC	16-FEB-01	150.1	
			SE	0.029	ppm	MF	20-MAR-01	180	6020
			SO4=	1543.	ppm	JN	08-MAR-01	28	9036
			TDS	3363.	ppm	DC	19-FEB-01	7	160.1
			TSS	7.1	ppm	DC	19-FEB-01	160.2	
			ZN	0.048	ppm	EH	14-MAR-01	180	6010
			AS	0.014	ppm	MF	20-MAR-01	180	6020
			CA	107.	ppm	EH	14-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	485.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1	
			COND.	4600.	umhos/cm2	DC	20-FEB-01	28	120.1
L010224-010	14-FEB-01	EPRI-0102-160	CR	<0.010	ppm	EH	14-MAR-01	180	6010
			CU	<0.025	ppm	EH	14-MAR-01	6010	
			F-	1.1	ppm	EH	20-FEB-01	28	340.2
			FE	1.3	ppm	EH	14-MAR-01	180	6010
			HCO3	408.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	11.	ppm	EH	14-MAR-01	180	6010
			MG	77.	ppm	EH	14-MAR-01	180	6010
			NA	694.	ppm	EH	14-MAR-01	180	6010
			NO2/NO3	13.	ppm	JN	07-MAR-01	28	353.2
			PB	<0.003	ppm	MF	20-MAR-01	180	6020
			PH	7.6	pH	DC	16-FEB-01	150.1	
			SE	0.025	ppm	MF	20-MAR-01	180	6020
			SO4=	1497.	ppm	JN	08-MAR-01	28	9036
			TDS	3200.	ppm	DC	19-FEB-01	7	160.1
			TSS	103.	ppm	DC	19-FEB-01	160.2	
			ZN	0.095	ppm	EH	14-MAR-01	180	6010
L010224-011	14-FEB-01	EPRI-0102-157	AS	0.015	ppm	MF	20-MAR-01	180	6020
			CA	82.	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	457.	ppm	JN	01-MAR-01	28	325.2

ASRICO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD DAYS	METHOD
L010224-011	14-FEB-01	EPRI-0102-157	CO3	<1.0	ppm CaCO3	DC	16-FEB-01	28	310.1
			COND.	4680.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01	28	6010
			F-	1.7	ppm	EH	20-FEB-01	28	340.2
			FE	3.9	ppm	EH	14-MAR-01	180	6010
			HCO3	544.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	8.7	ppm	EH	15-MAR-01	180	6010
			MG	63.	ppm	EH	15-MAR-01	180	6010
			NA	823.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	7.3	ppm	JN	07-MAR-01	28	353.2
			PB	0.005	ppm	MF	20-MAR-01	180	6020
			PH	7.8	pH	DC	16-FEB-01	180	150.1
			SE	0.041	ppm	MF	20-MAR-01	180	6020
			SO4=	1397.	ppm	JN	08-MAR-01	28	9036
			TDS	3222.	ppm	DC	19-FEB-01	7	160.1
			TSS	216.	ppm	DC	19-FEB-01	160.2	
			ZN	0.072	ppm	EH	14-MAR-01	180	6010
L010224-012	14-FEB-01	EPRI-0102-150	AS	0.025	ppm	MF	21-MAR-01	180	6020
			CA	189.	ppm	EH	15-MAR-01	180	6010
			CD	0.005	ppm	MF	21-MAR-01	180	6020
			CL-	199.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1	
			COND.	3000.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01	180	6010
			F-	0.67	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	EH	14-MAR-01	180	6010
			HCO3	260.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	7.0	ppm	EH	15-MAR-01	180	6010
			MG	92.	ppm	EH	15-MAR-01	180	6010
			NA	318.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	10.	ppm	JN	07-MAR-01	28	353.2
			PB	0.029	ppm	MF	21-MAR-01	180	6020
			PH	7.6	pH	DC	16-FEB-01	150.1	
			SE	0.016	ppm	MF	21-MAR-01	180	6020
			SO4=	981.	ppm	JN	09-MAR-01	28	9036
			TDS	2192.	ppm	DC	19-FEB-01	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010224-012	14-FEB-01	EPRI-0102-150	TSS	3.8	ppm	DC	19-FEB-01	180	160.2
			ZN	0.059	ppm	EH	14-MAR-01	180	6010
L010224-013	14-FEB-01	EPRI-0102-161	AS	0.12	ppm	MF	21-MAR-01	180	6020
			CA	149.	ppm	EH	15-MAR-01	180	6010
			CD	0.012	ppm	MF	21-MAR-01	180	6020
			CL-	513.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm	CaCO3	16-FEB-01	310.1	
			COND.	5260.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	0.22	ppm	EH	15-MAR-01	6010	
			F-	1.3	ppm	EH	20-FEB-01	28	340.2
			FE	4.3	ppm	EH	14-MAR-01	180	6010
			HCO3	570.	ppm	CaCO3	16-FEB-01	14	310.1
			K	7.1	ppm	EH	15-MAR-01	180	6010
			MG	104.	ppm	EH	15-MAR-01	180	6010
			NA	807.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	0.44	ppm	JN	07-MAR-01	28	353.2
			PB	0.18	ppm	MF	21-MAR-01	180	6020
			PH	7.8	pH	DC	16-FEB-01	150.1	
			SE	0.006	ppm	MF	21-MAR-01	180	6020
			SO4=	1560.	ppm	JN	08-MAR-01	28	9036
			TDS	3786.	ppm	DC	19-FEB-01	7	160.1
L010224-014	14-FEB-01	EPRI-0102-162	TSS	188.	ppm	DC	19-FEB-01	160.2	
			ZN	0.21	ppm	EH	14-MAR-01	180	6010
			AS	0.022	ppm	MF	21-MAR-01	180	6020
			CA	72.	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	21-MAR-01	180	6020
			CL-	488.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm	CaCO3	16-FEB-01	310.1	
			COND.	6230.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01	6010	
			F-	2.7	ppm	EH	20-FEB-01	28	340.2
			FE	0.29	ppm	EH	14-MAR-01	180	6010
			HCO3	360.	ppm	CaCO3	16-FEB-01	14	310.1
			K	87.	ppm	EH	15-MAR-01	180	6010
			MG	66.	ppm	EH	15-MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	QA/QC
L010224-014	14-FEB-01	EPRI-0102-162	NA	1057.	ppm	EH	15-MAR-01	180 6010
			NO2/NO3	14.	ppm	JN	07-MAR-01	28 353.2
			PB	0.006	ppm	MF	21-MAR-01	180 6020
			PH	8.0	pH	DC	16-FEB-01	150.1
			SE	0.47	ppm	MF	21-MAR-01	180 6020
			SO4=	2063.	ppm	JN	08-MAR-01	28 9036
			TDS	4547.	ppm	DC	19-FEB-01	7 160.1
			TSS	12.	ppm	DC	19-FEB-01	160.2
			ZN	0.070	ppm	EH	14-MAR-01	180 6010
L010224-015	14-FEB-01	EPRI-0102-149	AS	0.005	ppm	MF	21-MAR-01	180 6020
			CA	57.	ppm	EH	15-MAR-01	180 6010
			CD	<0.005	ppm	MF	21-MAR-01	180 6020
			CL-	322.	ppm	JN	01-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1
			COND.	3800.	umhos/cm2	DC	20-FEB-01	28 120.1
			CR	<0.010	ppm	EH	15-MAR-01	180 6010
			CU	<0.025	ppm	EH	15-MAR-01	6010
			F-	3.0	ppm	EH	20-FEB-01	28 340.2
			FE	<0.10	ppm	EH	14-MAR-01	180 6010
			HCO3	315.	ppm CaCO3	DC	16-FEB-01	14 310.1
			K	7.8	ppm	EH	15-MAR-01	180 6010
			MG	50.	ppm	EH	15-MAR-01	180 6010
			NA	592.	ppm	EH	15-MAR-01	180 6010
			NO2/NO3	9.3	ppm	JN	07-MAR-01	28 353.2
			PB	<0.003	ppm	MF	21-MAR-01	180 6020
			PH	7.8	pH	DC	16-FEB-01	150.1
			SE	0.039	ppm	MF	21-MAR-01	180 6020
			SO4=	1233.	ppm	JN	08-MAR-01	28 9036
			TDS	2564.	ppm	DC	19-FEB-01	7 160.1
			TSS	4.4	ppm	DC	19-FEB-01	160.2
			ZN	0.053	ppm	EH	14-MAR-01	180 6010
L010224-016	14-FEB-01	EPRI-0102-229	AS	<0.005	ppm	MF	21-MAR-01	180 6020
			CA	<1.0	ppm	EH	15-MAR-01	180 6010
			CD	<0.005	ppm	MF	21-MAR-01	180 6020
			CL-	<1.0	ppm	JN	01-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1
			COND.	<5.0	umhos/cm2	DC	20-FEB-01	28 120.1

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El Paso

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Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010224-016	14-FEB-01	EPRI-0102-229	CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01	180	6010
			F-	<0.050	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	EH	14-MAR-01	180	6010
			HCO3	<1.0	ppm	DC	16-FEB-01	14	310.1
			K	<2.0	ppm	EH	15-MAR-01	180	6010
			MG	<1.0	ppm	EH	15-MAR-01	180	6010
			NA	<2.0	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	07-MAR-01	28	353.2
			PB	<0.003	ppm	MF	21-MAR-01	180	6020
			PH	5.5	pH	DC	16-FEB-01	150.1	
			SE	<0.005	ppm	MF	21-MAR-01	180	6020
			SO4=	<2.0	ppm	JN	09-MAR-01	28	9036
			TDS	14.	ppm	DC	19-FEB-01	7	160.1
			TSS	<1.0	ppm	DC	19-FEB-01	160.2	
			ZN	<0.020	ppm	EH	14-MAR-01	180	6010
			AS	<0.005	ppm	MF	20-MAR-01	180	6020
			CA	<1.0	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	<1.0	ppm	JN	01-MAR-01	28	325.2
L010224-017	15-FEB-01	EPRI-0102-230	CO3	<1.0	ppm	DC	16-FEB-01	310.1	
			COND.	<5.0	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01	180	6010
			F-	<0.050	ppm	EH	20-FEB-01	28	340.2
			FE	<0.10	ppm	EH	14-MAR-01	180	6010
			HCO3	6.0	ppm	DC	16-FEB-01	14	310.1
			K	<2.0	ppm	EH	15-MAR-01	180	6010
			MG	<1.0	ppm	EH	15-MAR-01	180	6010
			NA	<2.0	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	07-MAR-01	28	353.2
			PB	<0.003	ppm	MF	20-MAR-01	180	6020
			PH	6.1	pH	DC	16-FEB-01	150.1	
			SE	<0.005	ppm	MF	20-MAR-01	180	6020
			SO4=	<2.0	ppm	JN	09-MAR-01	28	9036
			TDS	<10.	ppm	DC	19-FEB-01	7	160.1
			TSS	<1.0	ppm	DC	19-FEB-01	160.2	
			ZN	<0.020	ppm	EH	14-MAR-01	180	6010

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El Paso

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Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010224-018	14-FEB-01	EPRI-0102-169	AS	0.84	ppm	MF	20-MAR-01	180	6020
			CA	139.	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	375.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	28	310.1
			COND.	3840.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01	6010	
			F-	2.7	ppm	EH	20-FEB-01	28	340.2
			FE	0.30	ppm	EH	14-MAR-01	180	6010
			HCO3	256.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	16.	ppm	EH	15-MAR-01	180	6010
			MG	60.	ppm	EH	15-MAR-01	180	6010
			NA	548.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	5.3	ppm	JN	07-MAR-01	28	353.2
			PB	0.008	ppm	MF	20-MAR-01	180	6020
			PH	7.7	ppm	DC	16-FEB-01	150.1	
			SE	0.054	ppm	MF	20-MAR-01	180	6020
			SO4=	1441.	ppm	JN	08-MAR-01	28	9036
			TDS	2842.	ppm	DC	19-FEB-01	7	160.1
			TSS	5.6	ppm	DC	19-FEB-01	160.2	
			ZN	0.078	ppm	EH	14-MAR-01	180	6010
L010224-019	15-FEB-01	EPRI-0102-172	AS	1.1	ppm	EH	15-MAR-01	180	6010
			CA	43.	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	288.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	28	310.1
			COND.	3370.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01	6010	
			F-	2.4	ppm	EH	20-FEB-01	28	340.2
			FE	0.51	ppm	EH	14-MAR-01	180	6010
			HCO3	343.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	5.3	ppm	EH	15-MAR-01	180	6010
			MG	41.	ppm	EH	15-MAR-01	180	6010
			NA	564.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	7.1	ppm	JN	07 MAR 01	28	353.2
			PB	0.004	ppm	MF	20 MAR 01	180	6020

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El Paso

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Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		FOLD
							ANALYZED	DAYS	
L010224-019	15-FEB-01	EPRI-0102-172	PH	7.9	PH	DC	16-FEB-01	180	150.1
			SE	0.049	ppm	MF	20-MAR-01	180	6020
			SO4=	1041.	ppm	JN	08-MAR-01	28	9036
			TDS	2257.	ppm	DC	19-FEB-01	7	160.1
			TSS	22.	ppm	DC	19-FEB-01		160.2
			ZN	0.034	ppm	EH	14-MAR-01	180	6010
			AS	0.009	ppm	MF	20-MAR-01	180	6020
			CA	34.	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	256.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01		310.1
			COND.	2610.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01		6010
L010224-020	15-FEB-01	EPRI-0102-152	F-	2.6	ppm	EH	20-FEB-01	28	340.2
			FE	0.21	ppm	EH	14-MAR-01	180	6010
			HCO3	284.	ppm CaCO3	DC	16-FEB-01	14	310.1
			K	7.2	ppm	EH	15-MAR-01	180	6010
			MG	25.	ppm	EH	15-MAR-01	180	6010
			NA	408.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	6.7	ppm	JN	07-MAR-01	28	353.2
			PB	<0.003	ppm	MF	20-MAR-01	180	6020
			PH	7.9	PH	DC	16-FEB-01		150.1
			SE	0.029	ppm	MF	20-MAR-01	180	6020
			SO4=	665.	ppm	JN	08-MAR-01	28	9036
			TDS	1658.	ppm	DC	19-FEB-01	7	160.1
			TSS	15.	ppm	DC	19-FEB-01		160.2
			ZN	0.027	ppm	EH	14-MAR-01	180	6010
L010224-021	15-FEB-01	EPRI-0102-231	AS	0.010	ppm	MF	20-MAR-01	180	6020
			CA	37.	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	260.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01		310.1
			COND.	2530.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01		6010
			F-	2.6	ppm	EH	20-FEB-01	28	340.2

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	RECEIVED		
L010224-021	15-FEB-01	EPRI-0102-231	FE	0.23	ppm	EH	14-MAR-01	180	6010	
			HCO3	288.	ppm CaCO3	DC	16-FEB-01	14	310.1	
			K	8.0	ppm	EH	15-MAR-01	180	6010	
			MG	28.	ppm	EH	15-MAR-01	180	6010	
			NA	460.	ppm	EH	15-MAR-01	180	6010	
			NO2/NO3	6.8	ppm	JN	07-MAR-01	28	353.2	
			PB	<0.003	ppm	ME	20-MAR-01	180	6020	
			PH	7.8	pH	DC	16-FEB-01	180	150.1	
			SE	0.029	ppm	MF	20-MAR-01	180	6020	
			SO4=	672.	ppm	JN	08-MAR-01	28	9036	
			TDS	1670.	ppm	DC	19-FEB-01	7	160.1	
			TSS	6.4	ppm	DC	19-FEB-01	160.2		
			ZN	0.047	ppm	EH	14-MAR-01	180	6010	
			AS	0.010	ppm	MF	20-MAR-01	180	6020	
			CA	40.	ppm	EH	15-MAR-01	180	6010	
			CD	<0.005	ppm	MF	20-MAR-01	180	6020	
			CL-	378.	ppm	JN	01-MAR-01	28	325.2	
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	28	310.1	
			COND.	4400.	unhos/cm2	DC	20-FEB-01	28	120.1	
			CR	<0.010	ppm	EH	15-MAR-01	180	6010	
L010224-022	15-FEB-01	EPRI-0102-145	CU	<0.025	ppm	EH	15-MAR-01	180	6010	
			F-	4.8	ppm	EH	20-FEB-01	28	340.2	
			FE	<0.10	ppm	EH	14-MAR-01	180	6010	
			HCO3	376.	ppm	DC	16-FEB-01	14	310.1	
			K	7.1	ppm	EH	15-MAR-01	180	6010	
			MG	48.	ppm	EH	15-MAR-01	180	6010	
			NA	790.	ppm	EH	15-MAR-01	180	6010	
			NO2/NO3	11.	ppm	JN	07-MAR-01	28	353.2	
			PB	<0.003	ppm	MF	20-MAR-01	180	6020	
			PH	7.8	pH	DC	16-FEB-01	180	150.1	
			SE	0.11	ppm	MF	20-MAR-01	180	6020	
			SO4=	1412.	ppm	JN	08-MAR-01	28	9036	
			TDS	3051.	ppm	DC	19-FEB-01	7	160.1	
			TSS	2.0	ppm	DC	19-FEB-01	160.2		
			ZN	0.042	ppm	EH	14-MAR-01	180	6010	
			AS	3.7	ppm	EH	15-MAR-01	180	6010	
			CA	72.	ppm	EH	15-MAR-01	180	6010	
L010224-023	15-FEB-01	EPRI-0102-144								

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAVS	
L010224-023	15-FEB-01	EPRI-0102-144	CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	287.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	16-FEB-01		310.1
			COND.	3340.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01		6010
			F-	3.4	ppm	EH	20-FEB-01	28	340.2
			FE	0.11	ppm	EH	14-MAR-01	180	6010
			HCO3	340.	ppm	DC	16-FEB-01	14	310.1
			K	48.	ppm	EH	15-MAR-01	180	6010
			MG	34.	ppm	EH	15-MAR-01	180	6010
			NA	499.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	8.6	ppm	JN	07-MAR-01	28	353.2
			PB	<0.003	ppm	MF	20-MAR-01	180	6020
			PH	7.0	PH	DC	16-FEB-01		150.1
			SE	0.21	ppm	MF	20-MAR-01	180	6020
			SO4=	1015.	ppm	JN	08-MAR-01	28	9036
			TDS	2196.	ppm	DC	19-FEB-01	7	160.1
			TSS	2.4	ppm	DC	19-FEB-01		160.2
			ZN	0.048	ppm	EH	14-MAR-01	180	6010
L010224-024	15-FEB-01	EPRI-0102-173	AS	0.014	ppm	MF	20-MAR-01	180	6020
			CA	86.	ppm	EH	15-MAR-01	180	6010
			CD	<0.005	ppm	MF	20-MAR-01	180	6020
			CL-	360.	ppm	JN	01-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	16-FEB-01		310.1
			COND.	3840.	umhos/cm2	DC	20-FEB-01	28	120.1
			CR	<0.010	ppm	EH	15-MAR-01	180	6010
			CU	<0.025	ppm	EH	15-MAR-01		6010
			F-	2.3	ppm	EH	20-FEB-01	28	340.2
			FE	0.89	ppm	EH	14-MAR-01	180	6010
			HCO3	328.	ppm	DC	16-FEB-01	14	310.1
			K	15.	ppm	EH	15-MAR-01	180	6010
			MG	65.	ppm	EH	15-MAR-01	180	6010
			NA	629.	ppm	EH	15-MAR-01	180	6010
			NO2/NO3	8.0	ppm	JN	07-MAR-01	28	353.2
			PB	0.005	ppm	MF	20-MAR-01	180	6020
			PH	7.7	PH	DC	16-FEB-01		150.1
			SE	0.078	ppm	MF	20-MAR-01	180	6020

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El Paso

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Batch No: L010224

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L010224-024	15-FEB-01	EPRI-0102-173	SO4=	1273.	ppm	JN	08-MAR-01	28 9036
			TDS	2716.	ppm	DC	19-FEB-01	7 160.1
			TSS	26.	ppm	DC	19-FEB-01	160.2
			ZN	0.069	ppm	EH	14-MAR-01	180 6010
			AS	0.010	ppm	MF	20-MAR-01	180 6020
			CA	143.	ppm	EH	15-MAR-01	180 6010
			CD	<0.005	ppm	MF	20-MAR-01	180 6020
			CL-	396.	ppm	JN	01-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1
			COND.	3800.	umhos/cm2	DC	20-FEB-01	28 120.1
L010224-025	15-FEB-01	EPRI-0102-148	CR	<0.010	ppm	EH	15-MAR-01	180 6010
			CU	<0.025	ppm	EH	15-MAR-01	6010
			F-	2.2	ppm	EH	20-FEB-01	28 340.2
			FE	0.10	ppm	EH	14-MAR-01	180 6010
			HCO3	336.	ppm	DC	16-FEB-01	14 310.1
			K	23.	ppm CaCO3	EH	15-MAR-01	180 6010
			MG	82.	ppm	EH	15-MAR-01	180 6010
			NA	569.	ppm	EH	15-MAR-01	180 6010
			NO2/NO3	6.9	ppm	JN	07-MAR-01	28 353.2
			PB	<0.003	ppm	MF	20-MAR-01	180 6020
			PH	7.4	pH	DC	16-FEB-01	150.1
			SE	0.12	ppm	MF	20-MAR-01	180 6020
			SO4=	1176.	ppm	JN	08-MAR-01	28 9036
			TDS	2697.	ppm	DC	19-FEB-01	7 160.1
			TSS	4.7	ppm	DC	19-FEB-01	160.2
			ZN	0.030	ppm	EH	14-MAR-01	180 6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT



El Paso

Water and Solid Waste (Project 3220)

Batch No: L010224

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.

Approved

 Reviewer


ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010206

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010206-1		Matrix Spike	AS	96	%Recovery	MF	20-MAR-01	6020	
			CD	88	%Recovery	MF	20-MAR-01	6020	
			CL-	107	%Recovery	JN	01-MAR-01	325.2	
			CR	88	%Recovery	EH	14-MAR-01	6010	
			CU	90	%Recovery	EH	14-MAR-01	6010	
			F-	102	%Recovery	EH	20-FEB-01	340.2	
			FE	88	%Recovery	EH	14-MAR-01	6010	
			NO2/NO3	120	%Recovery	JN	07-MAR-01	353.2	
			PB	92	%Recovery	MF	20-MAR-01	6020	
			SE	97	%Recovery	MF	20-MAR-01	6020	
			SO4=	104	%Recovery	JN	08-MAR-01	9036	
			ZN	84	%Recovery	EH	14-MAR-01	6010	
			AS	<0.005	ppm	MF	20-MAR-01	6020	
			CA	<1.0	ppm	EH	14-MAR-01	6010	
			CD	<0.005	ppm	MF	20-MAR-01	6020	
			CL-	<1.0	ppm	JN	01-MAR-01	325.2	
			CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1	
WG010206-2		Prep Blank	COND.	<5.0	umhos/cm2	DC	20-FEB-01	120.1	
			CR	<0.010	ppm	EH	14-MAR-01	6010	
			CU	<0.025	ppm	EH	14-MAR-01	6010	
			F-	<0.050	ppm	EH	20-FEB-01	340.2	
			FE	<0.10	ppm	EH	14-MAR-01	6010	
			HCO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1	
			K	<2.0	ppm	EH	14-MAR-01	6010	
			MG	<1.0	ppm	EH	14-MAR-01	6010	
			NA	<2.0	ppm	EH	14-MAR-01	6010	
			NO2/NO3	<0.10	ppm	JN	07-MAR-01	353.2	
			PB	<0.003	ppm	MF	20-MAR-01	6020	
			SE	<0.005	ppm	MF	20-MAR-01	6020	
			SO4=	<2.0	ppm	JN	08-MAR-01	9036	
			TDS	<10.	ppm	DC	19 FEB 01	160.1	
			TSS	<1.0	ppm	DC	19-FEB-01	160.2	
			ZN	<0.020	ppm	EH	14-MAR-01	6010	
WG010206-3		Lab Control Sample	AS	100	%Recovery	MF	20-MAR-01	6020	
			CA	95	%Recovery	EH	14-MAR-01	6010	
			CD	99	%Recovery	MF	20-MAR-01	6020	
			CL-	101	%Recovery	JN	01-MAR-01	325.2	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010206

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS
							ANALYZED	METHOD	
WG010206-3		Lab Control Sample	COND.	99	%Recovery	DC	20-FEB-01	120.1	
			CR	97	%Recovery	EH	14-MAR-01	6010	
			CU	97	%Recovery	EH	14-MAR-01	6010	
			F-	91	%Recovery	EH	20-FEB-01	340.2	
			FE	98	%Recovery	EH	14-MAR-01	6010	
			HCO3	99	%Recovery	DC	16-FEB-01	310.1	
			K	98	%Recovery	EH	14-MAR-01	6010	
			MG	98	%Recovery	EH	14-MAR-01	6010	
			NA	101	%Recovery	EH	14-MAR-01	6010	
			NO2/NO3	99	%Recovery	JN	07-MAR-01	353.2	
			PB	105	%Recovery	MF	20-MAR-01	6020	
			SE	103	%Recovery	MF	20-MAR-01	6020	
			SO4=	102	%Recovery	JN	08-MAR-01	9036	
			TDS	102	%Recovery	DC	19-FEB-01	160.1	
			TSS	100	%Recovery	DC	19-FEB-01	160.2	
			ZN	93	%Recovery	EH	14-MAR-01	6010	
WG010206-4		Duplicate	CL-	<1	% RPD	JN	01-MAR-01	325.2	
			CO3	<1	% RPD	DC	16-FEB-01	310.1	
			COND.	<1	% RPD	DC	20-FEB-01	120.1	
			F-	4.4	% RPD	EH	20-FEB-01	340.2	
			HCO3	<1	% RPD	DC	16-FEB-01	310.1	
			NO2/NO3	4.5	% RPD	JN	07-MAR-01	353.2	
			SO4=	1.1	% RPD	JN	08-MAR-01	9036	
			TDS	<1	% RPD	DC	19-FEB-01	160.1	
			TSS	<1	% RPD	DC	19-FEB-01	160.2	
			AS	<1	% RPD	MF	20-MAR-01	6020	
			CA	2.0	% RPD	EH	14-MAR-01	6010	
			CD	<1	% RPD	MF	20-MAR-01	6020	
			CR	2.9	% RPD	EH	14-MAR-01	6010	
			CU	<1	% RPD	EH	14-MAR-01	6010	
			FE	<1	% RPD	EH	14-MAR-01	6010	
			K	2.2	% RPD	EH	14-MAR-01	6010	
			MG	<1	% RPD	EH	14-MAR-01	6010	
			NA	<1	% RPD	EH	14-MAR-01	6010	
			PB	<1	% RPD	MF	20-MAR-01	6020	
WG010206-5		Matrix Spike Duplicate	SE	<1	% RPD	MF	20-MAR-01	6020	
			ZN	3.0	% RPD	EH	14-MAR-01	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010206

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010206-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	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				6010
			CU	0.025	ppm				6010
			F-	0.050	ppm				340.2
			FE	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	0.10	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6010
WG010206-7		Matrix Spike	AS	88	%Recovery	EH	14-MAR-01		6010
			CD	89	%Recovery	MF	20-MAR-01		6020
			CL-	102	%Recovery	JN	01-MAR-01		325.2
			CR	90	%Recovery	EH	15-MAR-01		6010
			CU	93	%Recovery	EH	15-MAR-01		6010
			F-	102	%Recovery	EH	20-FEB-01		340.2
			FE	90	%Recovery	EH	14-MAR-01		6010
			NO2/NO3	94	%Recovery	JN	07-MAR-01		353.2
			PB	93	%Recovery	MF	20-MAR-01		6020
			SE	100	%Recovery	MF	20-MAR-01		6020
			SO4=	103	%Recovery	JN	08-MAR-01		9036
			ZN	87	%Recovery	EH	14-MAR-01		6010
WG010206-8		Prep Blank	AS	<0.020	ppm	EH	14-MAR-01		6010
			CA	<1.0	ppm	EH	15-MAR-01		6010
			CD	<0.005	ppm	MF	20-MAR-01		6020
			CL-	<1.0	ppm	JN	01-MAR-01		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010206

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010206-8		Prep Blank	CO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1	
			COND.	<5.0	umhos/cm2	DC	20-FEB-01	120.1	
			CR	<0.010	ppm	EH	15-MAR-01	6010	
			CU	<0.025	ppm	EH	15-MAR-01	6010	
			F-	<0.050	ppm	EH	20-FEB-01	340.2	
			FE	<0.10	ppm	EH	14-MAR-01	6010	
			HCO3	<1.0	ppm CaCO3	DC	16-FEB-01	310.1	
			K	<2.0	ppm	EH	15-MAR-01	6010	
			MG	<1.0	ppm	EH	15-MAR-01	6010	
			NA	<2.0	ppm	EH	15-MAR-01	6010	
			NO2/NO3	<0.10	ppm	JN	07-MAR-01	353.2	
			PB	<0.003	ppm	MF	20-MAR-01	6020	
			SE	<0.005	ppm	MF	20-MAR-01	6020	
			SO4=	<2.0	ppm	JN	08-MAR-01	9036	
			TDS	<10	ppm	DC	19-FEB-01	160.1	
			TSS	<1.0	ppm	DC	19-FEB-01	160.2	
			ZN	<0.020	ppm	EH	14-MAR-01	6010	
			AS	95	%Recovery	EH	14-MAR-01	6010	
			CA	90	%Recovery	EH	15-MAR-01	6010	
			CD	99	%Recovery	MF	21-MAR-01	6020	
			CL-	96	%Recovery	JN	01-MAR-01	325.2	
			COND.	99	%Recovery	DC	20-FEB-01	120.1	
			CR	93	%Recovery	EH	15-MAR-01	6010	
			CU	94	%Recovery	EH	15-MAR-01	6010	
			F-	92	%Recovery	EH	20-FEB-01	340.2	
			FE	93	%Recovery	EH	14-MAR-01	6010	
			HCO3	97	%Recovery	DC	16-FEB-01	310.1	
			K	95	%Recovery	EH	15-MAR-01	6010	
			MG	90	%Recovery	EH	15-MAR-01	6010	
			NA	93	%Recovery	EH	15-MAR-01	6010	
			NO2/NO3	104	%Recovery	JN	07-MAR-01	353.2	
			PB	96	%Recovery	MF	21-MAR-01	6020	
			SE	90	%Recovery	MF	21-MAR-01	6020	
			SO4=	99	%Recovery	JN	08-MAR-01	9036	
			TDS	104	%Recovery	DC	19-FEB-01	160.1	
			TSS	98	%Recovery	DC	19-FEB-01	160.2	
			ZN	88	%Recovery	EH	14-MAR-01	6010	
WG010206-9		Lab Control Sample	AS	95	%Recovery	EH	14-MAR-01	6010	
			CA	90	%Recovery	EH	15-MAR-01	6010	
			CD	99	%Recovery	MF	21-MAR-01	6020	
			CL-	96	%Recovery	JN	01-MAR-01	325.2	
			COND.	99	%Recovery	DC	20-FEB-01	120.1	
			CR	93	%Recovery	EH	15-MAR-01	6010	
			CU	94	%Recovery	EH	15-MAR-01	6010	
			F-	92	%Recovery	EH	20-FEB-01	340.2	
			FE	93	%Recovery	EH	14-MAR-01	6010	
			HCO3	97	%Recovery	DC	16-FEB-01	310.1	
			K	95	%Recovery	EH	15-MAR-01	6010	
			MG	90	%Recovery	EH	15-MAR-01	6010	
			NA	93	%Recovery	EH	15-MAR-01	6010	
			NO2/NO3	104	%Recovery	JN	07-MAR-01	353.2	
			PB	96	%Recovery	MF	21-MAR-01	6020	
			SE	90	%Recovery	MF	21-MAR-01	6020	
			SO4=	99	%Recovery	JN	08-MAR-01	9036	
			TDS	104	%Recovery	DC	19-FEB-01	160.1	
			TSS	98	%Recovery	DC	19-FEB-01	160.2	
			ZN	88	%Recovery	EH	14-MAR-01	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010206

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010206-10		Duplicate	CL-	12	% RPD	JN	01-MAR-01		325.2
			CO3	<1	% RPD	DC	16-FEB-01		310.1
			COND.	<1	% RPD	DC	20-FEB-01		120.1
			F-	4.1	% RPD	EH	20-FEB-01		340.2
			HCO3	<1	% RPD	DC	16-FEB-01		310.1
			NO2/NO3	<1	% RPD	JN	07-MAR-01		353.2
			SO4=	5.7	% RPD	JN	08-MAR-01		9036
			TDS	1.8	% RPD	DC	19-FEB-01		160.1
			TSS	4.3	% RPD	DC	19-FEB-01		160.2
WG010206-11		Matrix Spike Duplicate	AS	2.9	% RPD	EH	14-MAR-01		6010
			CA	4.7	% RPD	EH	15-MAR-01		6010
			CD	<1	% RPD	MF	20-MAR-01		6020
			CR	5.7	% RPD	EH	15-MAR-01		6010
			CU	5.6	% RPD	EH	15-MAR-01		6010
			FE	5.7	% RPD	EH	14-MAR-01		6010
			K	2.4	% RPD	EH	15-MAR-01		6010
			MG	5.9	% RPD	EH	15-MAR-01		6010
			NA	6.1	% RPD	EH	15-MAR-01		6010
			PB	3.9	% RPD	MF	20-MAR-01		6020
			SE	1.6	% RPD	MF	20-MAR-01		6020
			ZN	2.9	% RPD	EH	14-MAR-01		6010

Approved

Reviewer

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85710
 P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		SAMPLE NUMBER		REMARKS			
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
2-14-01	1630			X	X			X			
2-15-01	1215			X	X			X			
2-14-01	730			X	X			X			
2-15-01	1340			X	X			X			
	1400			X	X			X			
	1410			X	X			X			
	1440			X	X			X			
	1500			X	X			X			
	1520			X	X			X			
	1530			X	X			X			
<div> <div>Relinquished (Signature)</div> <div>2-15-01 1600</div> <div>Date/Time</div> </div> <div> <div>Relinquished (Signature)</div> <div></div> <div>Date/Time</div> </div> <div> <div>Relinquished (Signature)</div> <div></div> <div>Date/Time</div> </div>											

Received by: (Signature) <i>[Signature]</i>	Date/Time 2-15-01 1600	Remarks 12-502-01
Received by: (Signature)	Date/Time	Remarks

Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time 2-16-01 0930	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
---------------------------------------------------------------	---------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Split Samples: <input type="checkbox"/> Accepted <input checked="" type="checkbox"/> 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	
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
1246 v2	8:00				3	X	X		X				
	8:25				3	X	X		X				
	8:30				3	X	X		X				
	8:50				3	X	X		X				
	9:15				3	X	X		X				
	10:10				3	X	X		X				
	10:30				3	X	X		X				
	13:00				3	X	X		X				
	13:20				3	X	X		X				
	13:40				3	X	X		X				
	14:20				3	X	X		X				
	14:50				3	X	X		X				
	15:10				3	X	X		X				
	15:30				3	X	X		X				
	15:50				3	X	X		X				

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	2/15/01 16:00	<i>[Signature]</i>	TSC		Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	
							ANALYZED	HOLD
L010236-001	16-FEB-01	EPRI-0102-119	AS	0.37	ppm	CH	12-MAR-01	180
			CA	655.	ppm	EH	10-MAR-01	180
			CD	0.034	ppm	CH	12-MAR-01	180
			CL-	2970.	ppm	JN	13-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	11900.	umhos/cm2	BD	22-FEB-01	28
			CR	1.6	ppm	EH	10-MAR-01	180
			CU	0.24	ppm	EH	10-MAR-01	180
			F-	0.80	ppm	EH	13-MAR-01	28
			FE	9.8	ppm	EH	10-MAR-01	180
			HCO3	180.	ppm CaCO3	DC	01-MAR-01	14
			K	43.	ppm	EH	10-MAR-01	180
			MG	470.	ppm	EH	10-MAR-01	180
			NA	1263.	ppm	EH	10-MAR-01	180
			NO2/NO3	167.	ppm	JN	19-MAR-01	28
			PB	0.015	ppm	CH	12-MAR-01	180
			PH	7.5	pH	DC	01-MAR-01	150.1
			SE	0.22	ppm	CH	12-MAR-01	180
			SO4=	2108.	ppm	JN	12-MAR-01	28
			TDS	8433.	ppm	BD	23-FEB-01	7
			TSS	38.	ppm	BD	23-FEB-01	160.2
			ZN	0.69	ppm	EH	10-MAR-01	180
								6020
L010236-002	16-FEB-01	EPRI-0102-151	AS	2.3	ppm	CH	12-MAR-01	180
			CA	85.	ppm	EH	10-MAR-01	180
			CD	<0.005	ppm	CH	12-MAR-01	180
			CL-	191.	ppm	JN	13-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	2760.	umhos/cm2	BD	22-FEB-01	28
			CR	<0.010	ppm	EH	10-MAR-01	180
			CU	<0.025	ppm	EH	10-MAR-01	180
			F-	3.3	ppm	EH	13-MAR-01	28
			FE	<0.10	ppm	EH	10-MAR-01	180
			HCO3	292.	ppm CaCO3	DC	01-MAR-01	14
			K	26.	ppm	EH	10-MAR-01	180
			MG	41.	ppm	EH	10-MAR-01	180
			NA	411.	ppm	EH	10-MAR-01	180
			NO2/NO3	7.5	ppm	JN	15-MAR-01	28
			PB	<0.003	ppm	CH	12-MAR-01	180
								6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010236-002	16-FEB-01	EPRI-0102-151	PH	8.0	pH	DC	01-MAR-01	180	150.1
			SE	0.15	ppm	CH	12-MAR-01	180	6020
			SO4=	849.	ppm	JN	12-MAR-01	28	9036
			TDS	1926.	ppm	BD	23-FEB-01	7	160.1
			TSS	3.0	ppm	BD	23-FEB-01		160.2
			ZN	0.039	ppm	EH	10-MAR-01	180	6010
			AS	2.3	ppm	CH	12-MAR-01	180	6020
			CA	80.	ppm	EH	10-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	199.	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	2760.	umhos/cm2	BD	22-FEB-01	28	120.1
L010236-003	16-FEB-01	EPRI-0102-232	CR	<0.010	ppm	EH	10-MAR-01	180	6010
			CU	<0.025	ppm	EH	10-MAR-01		6010
			F-	3.3	ppm	EH	13-MAR-01	28	340.2
			FE	0.11	ppm	EH	10-MAR-01	180	6010
			HCO3	282.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	24.	ppm	EH	10-MAR-01	180	6010
			MG	38.	ppm	EH	10-MAR-01	180	6010
			NA	386.	ppm	EH	10-MAR-01	180	6010
			NO2/NO3	7.6	ppm	JN	15-MAR-01	28	353.2
			PB	0.004	ppm	CH	12-MAR-01	180	6020
			PH	8.2	pH	DC	01-MAR-01		150.1
			SE	0.16	ppm	CH	12-MAR-01	180	6020
			SO4=	850.	ppm	JN	12-MAR-01	28	9036
			TDS	1928.	ppm	BD	23-FEB-01	7	160.1
			TSS	4.4	ppm	BD	23-FEB-01		160.2
			ZN	0.051	ppm	EH	10-MAR-01	180	6010
			AS	0.53	ppm	CH	12-MAR-01	180	6020
			CA	147.	ppm	EH	10-MAR-01	180	6010
			CD	0.006	ppm	CH	12-MAR-01	180	6020
L010236-004	16-FEB-01	EPRI-0102-147	CL-	107.	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	2780.	umhos/cm2	BD	22-FEB-01	28	120.1
			CR	<0.010	ppm	EH	10-MAR-01	180	6010
			CU	<0.025	ppm	EH	10-MAR-01		6010
			F-	1.7	ppm	EH	13-MAR-01	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ADJUST	ANALYZED	DATE HOLD
L010236-004	16-FEB-01	EPRI-0102-147	FE	0.58	ppm	EH	10-MAR-01	180 6010
			HCO3	392.	ppm	DC	01-MAR-01	14 310.1
			K	16.	ppm	EH	10-MAR-01	180 6010
			MG	71.	ppm	EH	10-MAR-01	180 6010
			NA	318.	ppm	EH	10-MAR-01	180 6010
			NO2/NO3	10.	ppm	JN	15-MAR-01	28 353.2
			PB	<0.003	ppm	CH	12-MAR-01	180 6020
			PH	8.0	pH	DC	01-MAR-01	150.1
			SE	0.29	ppm	CH	12-MAR-01	180 6020
			SO4=	1026.	ppm	JN	12-MAR-01	28 9036
			TDS	2111.	ppm	BD	23-FEB-01	7 160.1
			TSS	17.	ppm	BD	23-FEB-01	160.2
			ZN	0.11	ppm	EH	10-MAR-01	180 6010
			AS	0.025	ppm	CH	12-MAR-01	180 6020
			CA	194.	ppm	EH	10-MAR-01	180 6010
			CD	<0.005	ppm	CH	12-MAR-01	180 6020
			CL-	387.	ppm	JN	13-MAR-01	28 325.2
			CO3	<1.0	ppm	DC	01-MAR-01	310.1
			COND.	5300.	umhos/cm2	BD	22-FEB-01	28 120.1
L010236-005	16-FEB-01	EPRI-0102-146	CR	<0.010	ppm	EH	10-MAR-01	180 6010
			CU	<0.025	ppm	EH	10-MAR-01	6010
			F-	1.2	ppm	EH	13-MAR-01	28 340.2
			FE	0.47	ppm	EH	10-MAR-01	180 6010
			HCO3	420.	ppm	DC	01-MAR-01	14 310.1
			K	15.	ppm	EH	10-MAR-01	180 6010
			MG	83.	ppm	EH	10-MAR-01	180 6010
			NA	877.	ppm	EH	10-MAR-01	180 6010
			NO2/NO3	1.2	ppm	JN	15-MAR-01	28 353.2
			PB	<0.003	ppm	CH	12-MAR-01	180 6020
			PH	8.1	pH	DC	01-MAR-01	150.1
			SE	0.015	ppm	CH	12-MAR-01	180 6020
			SO4=	2251.	ppm	JN	12-MAR-01	28 9036
			TDS	3970.	ppm	BD	23-FEB-01	7 160.1
			TSS	18.	ppm	BD	23-FEB-01	160.2
			ZN	0.082	ppm	EH	10-MAR-01	180 6010
			AS	0.030	ppm	CH	12-MAR-01	180 6020
			CA	212.	ppm	EH	10-MAR-01	180 6010
L010236-006	16-FEB-01	EPRI-0102-140						

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010236-006	16-FEB-01	EPRI-0102-140	CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	375.	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	6180.	umhos/cm2	BD	22-FEB-01	28	120.1
			CR	<0.010	ppm	EH	10-MAR-01	180	6010
			CU	<0.025	ppm	EH	10-MAR-01		6010
			F-	2.6	ppm	EH	13-MAR-01	28	340.2
			FE	0.46	ppm	EH	10-MAR-01	180	6010
			HCO3	230.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	263.	ppm	EH	10-MAR-01	180	6010
			MG	95.	ppm	EH	10-MAR-01	180	6010
			NA	803.	ppm	EH	10-MAR-01	180	6010
			NO2/NO3	21.	ppm	JN	15-MAR-01	28	353.2
			PB	0.003	ppm	CH	12-MAR-01	180	6020
			PH	7.9	pH	DC	01-MAR-01		150.1
			SE	1.0	ppm	CH	12-MAR-01	180	6020
			SO4=	2905.	ppm	JN	12-MAR-01	28	9036
			TDS	4845.	ppm	BD	23-FEB-01	7	160.1
			TSS	11.	ppm	BD	23-FEB-01		160.2
			ZN	0.060	ppm	EH	10-MAR-01	180	6010
L010236-007	16-FEB-01	EPRI-0102-233	AS	<0.005	ppm	CH	12-MAR-01	180	6020
			CA	<1.0	ppm	EH	10-MAR-01	180	6010
			CD	<0.005	ppm	CH	12-MAR-01	180	6020
			CL-	<1.0	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	<5.0	umhos/cm2	BD	22-FEB-01	28	120.1
			CR	<0.010	ppm	EH	10-MAR-01	180	6010
			CU	<0.025	ppm	EH	10-MAR-01		6010
			F-	<0.10	ppm	EH	13-MAR-01	28	340.2
			FE	<0.10	ppm	EH	10-MAR-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	<2.0	ppm	EH	10-MAR-01	180	6010
			MG	<1.0	ppm	EH	10-MAR-01	180	6010
			NA	<2.0	ppm	EH	10-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	15-MAR-01	28	353.2
			PB	<0.003	ppm	CH	12-MAR-01	180	6020
			PH	5.3	pH	DC	01-MAR-01		150.1
			SE	<0.005	ppm	CH	12-MAR-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010236-007	16-FEB-01	EPRI-0102-233	SO4=	<2.0	ppm	JN	12-MAR-01	28	9036
			TDS	<10.	ppm	BD	23-FEB-01	7	160.1
			TSS	<1.0	ppm	BD	23-FEB-01		160.2
			ZN	0.026	ppm	EH	10-MAR-01	180	6010
			AS	0.016	ppm	CH	12-MAR-01	180	6020
			CA	605.	ppm	EH	10-MAR-01	180	6010
			CD	0.019	ppm	CH	12-MAR-01	180	6020
			CL-	1707.	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	10660.	umhos/cm2	BD	22-FEB-01	28	120.1
			CR	<0.010	ppm	EH	10-MAR-01	180	6010
			CU	0.025	ppm	EH	10-MAR-01		6010
			F-	0.90	ppm	EH	13-MAR-01	28	340.2
			FE	1.9	ppm	EH	10-MAR-01	180	6010
L010236-008	20-FEB-01	EPRI-0102-164	HCO3	266.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	27.	ppm	EH	10-MAR-01	180	6010
			MG	320.	ppm	EH	10-MAR-01	180	6010
			NA	1131.	ppm	EH	10-MAR-01	180	6010
			NO2/NO3	272.	ppm	JN	19-MAR-01	28	353.2
			PE	0.004	ppm	CH	12-MAR-01	180	6020
			PH	7.7	pH	DC	01-MAR-01		150.1
			SE	0.58	ppm	CH	12-MAR-01	180	6020
			SO4=	2885.	ppm	JN	12-MAR-01	28	9036
			TDS	8533.	ppm	BD	23-FEB-01	7	160.1
			TSS	76.	ppm	BD	23-FEB-01		160.2
			ZN	0.22	ppm	EH	10-MAR-01	180	6010
			AS	1.5	ppm	CH	12-MAR-01	180	6020
			CA	429.	ppm	EH	10-MAR-01	180	6010
L010236-009	20-FEB-01	EPRI-0102-120	CD	0.36	ppm	CH	12-MAR-01	180	6020
			CL-	1080.	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	12090.	umhos/cm2	BD	22-FEB-01	28	120.1
			CR	0.18	ppm	EH	10-MAR-01	180	6010
			CU	0.59	ppm	EH	10-MAR-01		6010
			F-	5.8	ppm	EH	13-MAR-01	28	340.2
			FE	5.9	ppm	EH	10-MAR-01	180	6010
			HCO3	546.	ppm CaCO3	DC	01-MAR-01	14	310.1
			AS	1.5	ppm	CH	12-MAR-01	180	6020
			CA	429.	ppm	EH	10-MAR-01	180	6010
			CD	0.36	ppm	CH	12-MAR-01	180	6020
			CL-	1080.	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	12090.	umhos/cm2	BD	22-FEB-01	28	120.1

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD DAYS METHOD
L010236-009	20-FEB-01	EPRI-0102-120	K	15.	ppm	EH	10-MAR-01	180 6010
			MG	251.	ppm	EH	10-MAR-01	180 6010
			NA	1943.	ppm	EH	10-MAR-01	180 6010
			NO2/NO3	109.	ppm	JN	15-MAR-01	28 353.2
			PB	1.4	ppm	CH	12-MAR-01	180 6020
			PH	7.6	pH	DC	01-MAR-01	150.1
			SE.	0.20	ppm	CH	12-MAR-01	180 6020
			SO4=	4393.	ppm	JN	12-MAR-01	28 9036
			TDS	10271.	ppm	BD	23-FEB-01	7 160.1
			TSS	37.	ppm	BD	23-FEB-01	160.2
			ZN	2.2	ppm	EH	10-MAR-01	180 6010
			AS	<0.005	ppm	CH	12-MAR-01	180 6020
			CA	<1.0	ppm	EH	10-MAR-01	180 6010
			CD	<0.005	ppm	CH	12-MAR-01	180 6020
			CL-	<1.0	ppm	JN	13-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	<5.0	umhos/cm2	BD	22-FEB-01	28 120.1
			CR	<0.010	ppm	EH	10-MAR-01	180 6010
			CU	<0.025	ppm	EH	10-MAR-01	6010
			F-	<0.10	ppm	EH	13-MAR-01	28 340.2
L010236-010	20-FEB-01	EPRI-0102-234	FE	<0.10	ppm	EH	10-MAR-01	180 6010
			HCO3	<1.0	ppm CaCO3	DC	01-MAR-01	14 310.1
			K	<2.0	ppm	EH	10-MAR-01	180 6010
			MG	<1.0	ppm	EH	10-MAR-01	180 6010
			NA	<2.0	ppm	EH	10-MAR-01	180 6010
			NO2/NO3	<0.10	ppm	JN	15-MAR-01	28 353.2
			PB	<0.003	ppm	CH	12-MAR-01	180 6020
			PH	5.2	pH	DC	01-MAR-01	150.1
			SE	<0.005	ppm	CH	12-MAR-01	180 6020
			SO4=	<2.0	ppm	JN	12-MAR-01	28 9036
			TDS	<10.	ppm	BD	23-FEB-01	7 160.1
			TSS	<1.0	ppm	BD	23-FEB-01	160.2
			ZN	0.021	ppm	EH	10-MAR-01	180 6010
			AS	25.	ppm	EH	10-MAR-01	180 6010
			CA	454.	ppm	EH	10-MAR-01	180 6010
			CD	0.034	ppm	CH	12-MAR-01	180 6020
			CL-	600.	ppm	JN	13-MAR-01	28 325.2
L010236-011	20-FEB-01	EPRI-0102-118	AS	25.	ppm	EH	10-MAR-01	180 6010
			CA	454.	ppm	EH	10-MAR-01	180 6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010236-011	20-FEB-01	EPRI-0102-118	CO3	<1.0	ppm	DC	01-MAR-01	310.1	
			COND.	9900.	umhos/cm2	BD	22-FEB-01	28	120.1
			CR	0.014	ppm	EH	10-MAR-01	180	6010
			CU	<0.025	ppm	EH	10-MAR-01	180	6010
			F-	6.7	ppm	EH	13-MAR-01	28	340.2
			FE	9.5	ppm	EH	10-MAR-01	180	6010
			HCO3	588.	ppm	DC	01-MAR-01	14	310.1
			K	217.	ppm	EH	10-MAR-01	180	6010
			MG	125.	ppm	EH	10-MAR-01	180	6010
			NA	1343.	ppm	EH	10-MAR-01	180	6010
			NO2/NO3	22.	ppm	EH	10-MAR-01	180	6010
			PB	0.006	ppm	EH	10-MAR-01	180	6010
			PH	7.7	pH	DC	01-MAR-01	180	6020
			SE	0.11	ppm	CH	12-MAR-01	180	6020
			SO4=	4451.	ppm	JN	15-MAR-01	28	353.2
			TDS	7694.	ppm	CH	12-MAR-01	180	6020
			TSS	89.	ppm	DC	01-MAR-01	180	150.1
			ZN	19.	ppm	CH	12-MAR-01	180	6020
					ppm	JN	12-MAR-01	28	9036
					ppm	BD	23-FEB-01	7	160.1
					ppm	EH	10-MAR-01	180	6010
L010236-012	20-FEB-01	EPRI-0102-235	AS	26.	ppm	EH	10-MAR-01	180	6010
			CA	439.	ppm	EH	10-MAR-01	180	6010
			CD	0.033	ppm	CH	12-MAR-01	180	6020
			CL-	628.	ppm	JN	13-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	01-MAR-01	180	310.1
			COND.	9880.	umhos/cm2	BD	22-FEB-01	28	120.1
			CR	0.011	ppm	EH	10-MAR-01	180	6010
			CU	<0.025	ppm	EH	10-MAR-01	180	6010
			F-	6.6	ppm	EH	13-MAR-01	28	340.2
			FE	9.4	ppm	EH	10-MAR-01	180	6010
			HCO3	588.	ppm	DC	01-MAR-01	14	310.1
			K	212.	ppm	EH	10-MAR-01	180	6010
			MG	122.	ppm	EH	10-MAR-01	180	6010
			NA	1333.	ppm	EH	10-MAR-01	180	6010
			NO2/NO3	20.	ppm	JN	15-MAR-01	28	353.2
			PB	0.006	ppm	CH	12-MAR-01	180	6020
			PH	7.6	pH	DC	01-MAR-01	180	150.1
			SE	0.12	ppm	CH	12-MAR-01	180	6020
			SO4=	4463.	ppm	JN	12-MAR-01	28	9036
			TDS	7746.	ppm	BD	23-FEB-01	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYSIS METHOD
L010236-012	20-FEB-01	EPRI-0102-235	TSS	277.	ppm	BD	23-FEB-01	160.2
			ZN	19.	ppm	EH	10-MAR-01	6010
			AS	25.	ppm	EH	10-MAR-01	6010
			CA	385.	ppm	EH	10-MAR-01	6010
			CD	0.45	ppm	CH	12-MAR-01	180
			CL-	723.	ppm	JN	13-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	10000.	umhos/cm2	BD	22-FEB-01	28
			CR	<0.010	ppm	EH	10-MAR-01	180
			CU	0.22	ppm	EH	10-MAR-01	6010
			F-	9.1	ppm	EH	13-MAR-01	28
			FE	2.8	ppm	EH	10-MAR-01	180
			HCO3	910.	ppm CaCO3	DC	01-MAR-01	14
			K	222.	ppm	EH	10-MAR-01	180
			MG	181.	ppm	EH	10-MAR-01	6010
			NA	1316.	ppm	JN	15-MAR-01	23
			NO2/NO3	10.	ppm	CH	12-MAR-01	180
			PB	0.008	ppm	DC	01-MAR-01	150.1
L010236-014	20-FEB-01	EPRI-0102-114	PH	7.6	ppm	CH	12-MAR-01	180
			SE	0.12	ppm	CH	12-MAR-01	6020
			SO4=	4108.	ppm	JN	12-MAR-01	28
			TDS	7735.	ppm	BD	23-FEB-01	7
			TSS	16.	ppm	BD	23-FEB-01	160.1
			ZN	9.8	ppm	EH	10-MAR-01	180
			AS	0.26	ppm	CH	12-MAR-01	180
			CA	200.	ppm	EH	10-MAR-01	180
			CD	0.21	ppm	CH	12-MAR-01	180
			CL-	467.	ppm	JN	13-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	4740.	umhos/cm2	BD	22-FEB-01	28
			CR	<0.010	ppm	EH	10-MAR-01	180
			CU	<0.025	ppm	EH	10-MAR-01	6010
			F-	1.8	ppm	EH	13-MAR-01	28
			FE	0.57	ppm	EH	10-MAR-01	180
			HCO3	242.	ppm CaCO3	DC	01-MAR-01	14
			K	43.	ppm	EH	10-MAR-01	180
			MG	63.	ppm	EH	10-MAR-01	180

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


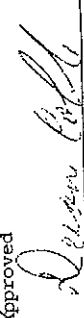
El Paso

Water and Solid Waste (Project 3220)

Batch No: L010236

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010236-014	20-FEB-01	EPRI-0102-114	NA	755.	ppm	EH	10-MAR-01	180	6010
			NO2/NO3	16.	ppm	JN	15-MAR-01	28	353.2
			PB	0.006	ppm	CH	12-MAR-01	180	6020
			PH	7.8	pH	DC	01-MAR-01	180	150.1
			SE	1.1	ppm	CH	12-MAR-01	180	6020
			SO4=	1913.	ppm	JN	12-MAR-01	28	9036
			TDS	3520.	ppm	BD	23-FEB-01	7	160.1
			TSS	18.	ppm	BD	23-FEB-01	160.2	
			ZN	0.74	ppm	EH	10-MAR-01	130	6010

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: WG010196

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010196-1		Matrix Spike	AS	99	%Recovery	CH	12-MAR-01		6020
			CD	91	%Recovery	CH	12-MAR-01		6020
			CL-	97	%Recovery	JN	13-MAR-01		325.2
			CR	88	%Recovery	EH	10-MAR-01		6010
			CU	95	%Recovery	EH	10-MAR-01		6010
			F-	102	%Recovery	EH	13-MAR-01		340.2
			FE	90	%Recovery	EH	10-MAR-01		6010
			NO2/NO3	99	%Recovery	JN	15-MAR-01		353.2
			PB	93	%Recovery	CH	12-MAR-01		6020
			SE	95	%Recovery	CH	12-MAR-01		6020
			SO4=	96	%Recovery	JN	12-MAR-01		9036
			ZN	83	%Recovery	EH	10-MAR-01		6010
			AS	<0.005	ppm	CH	12-MAR-01		6020
			CA	<1.0	ppm	EH	10-MAR-01		6010
			CD	<0.005	ppm	CH	12-MAR-01		6020
			CL-	<1.0	ppm	JN	13-MAR-01		325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	<5.0	umhos/cm2	BD	22-FEB-01		120.1
			CR	<0.010	ppm	EH	10-MAR-01		6010
			CU	<0.025	ppm	EH	10-MAR-01		6010
WG010196-2		Prep Blank	F-	<0.10	ppm	EH	13-MAR-01		340.2
			FE	<0.10	ppm	EH	10-MAR-01		6010
			HCO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			K	<2.0	ppm	EH	10-MAR-01		6010
			MG	<1.0	ppm	EH	10-MAR-01		6010
			NA	<2.0	ppm	EH	10-MAR-01		6010
			NO2/NO3	<0.10	ppm	JN	15-MAR-01		353.2
			PB	<0.003	ppm	CH	12-MAR-01		6020
			SE	<0.005	ppm	CH	12-MAR-01		6020
			SO4=	<2.0	ppm	JN	12-MAR-01		9036
			TDS	<10.	ppm	BD	23-FEB-01		160.1
			TSS	<1.0	ppm	BD	23-FEB-01		160.2
			ZN	<0.020	ppm	EH	10-MAR-01		6010
			AS	104	%Recovery	CH	12-MAR-01		6020
			CA	95	%Recovery	EH	10-MAR-01		6010
			CD	98	%Recovery	CH	12-MAR-01		6020
			CL-	99	%Recovery	JN	13-MAR-01		325.2
			AS		%Recovery	CH	12-MAR-01		6020
			CA		%Recovery	EH	10-MAR-01		6010
			CD		%Recovery	CH	12-MAR-01		6020
			CL-		%Recovery	JN	13-MAR-01		325.2

Lab Control Sample

WG010196-3

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010196

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010196-3		Lab Control Sample	COND.	101	% Recovery	BD	22-FEB-01	120.1	
			CR	95	% Recovery	EH	10-MAR-01	6010	
			CU	100	% Recovery	EH	10-MAR-01	6010	
			F-	93	% Recovery	EH	13-MAR-01	340.2	
			FE	95	% Recovery	EH	10-MAR-01	6010	
			HCO3	98	% Recovery	DC	01-MAR-01	310.1	
			K	88	% Recovery	EH	10-MAR-01	6010	
			MG	96	% Recovery	EH	10-MAR-01	6010	
			NA	90	% Recovery	EH	10-MAR-01	6010	
			NO2/NO3	106	% Recovery	JN	15-MAR-01	353.2	
			PE	101	% Recovery	CH	12-MAR-01	6020	
			SE	110	% Recovery	CH	12-MAR-01	6020	
			SO4=	92	% Recovery	JN	12-MAR-01	9036	
			TDS	101	% Recovery	BD	23-FEB-01	160.1	
			TSS	107	% Recovery	BD	23-FEB-01	160.2	
			ZN	89	% Recovery	EH	10-MAR-01	6010	
			CL-	<1	% RPD	JN	13-MAR-01	325.2	
			CO3	<1	% RPD	DC	01-MAR-01	310.1	
			COND.	<1	% RPD	BD	22-FEB-01	120.1	
WG010196-4		Duplicate	F-	1.8	% RPD	EH	13-MAR-01	340.2	
			HCO3	<1	% RPD	DC	01-MAR-01	310.1	
			NO2/NO3	6.0	% RPD	JN	15-MAR-01	353.2	
			SO4=	16	% RPD	JN	12-MAR-01	9036	
			TDS	1.4	% RPD	BD	23-FEB-01	160.1	
			TSS	2.6	% RPD	BD	23-FEB-01	160.2	
			AS	<1	% RPD	CH	12-MAR-01	6020	
			CA	2.3	% RPD	EH	10-MAR-01	6010	
			CD	1.4	% RPD	CH	12-MAR-01	6020	
			CR	5.9	% RPD	CH	10-MAR-01	6010	
			CU	5.4	% RPD	EH	10-MAR-01	6010	
			FE	5.7	% RPD	EH	10-MAR-01	6010	
			K	3.4	% RPD	EH	10-MAR-01	6010	
			MG	2.3	% RPD	EH	10-MAR-01	6010	
			NA	<1	% RPD	EH	10-MAR-01	6010	
			PB	<1	% RPD	CH	12-MAR-01	6020	
			SE	3.5	% RPD	CH	12-MAR-01	6020	
			ZN	3.1	% RPD	EH	10-MAR-01	6010	
WG010196-5		Matrix Spike Duplicate	COND.	<1	% RPD	JN	13-MAR-01	325.2	
			CL-	<1	% RPD	DC	01-MAR-01	310.1	
			CO3	<1	% RPD	BD	22-FEB-01	120.1	
			F-	1.8	% RPD	EH	13-MAR-01	340.2	
			HCO3	<1	% RPD	DC	01-MAR-01	310.1	
			NO2/NO3	6.0	% RPD	JN	15-MAR-01	353.2	
			SO4=	16	% RPD	JN	12-MAR-01	9036	
			TDS	1.4	% RPD	BD	23-FEB-01	160.1	
			TSS	2.6	% RPD	BD	23-FEB-01	160.2	
			AS	<1	% RPD	CH	12-MAR-01	6020	
			CA	2.3	% RPD	EH	10-MAR-01	6010	
			CD	1.4	% RPD	CH	12-MAR-01	6020	
			CR	5.9	% RPD	CH	10-MAR-01	6010	
			CU	5.4	% RPD	EH	10-MAR-01	6010	
			FE	5.7	% RPD	EH	10-MAR-01	6010	
			K	3.4	% RPD	EH	10-MAR-01	6010	
			MG	2.3	% RPD	EH	10-MAR-01	6010	
			NA	<1	% RPD	EH	10-MAR-01	6010	
			PB	<1	% RPD	CH	12-MAR-01	6020	
			SE	3.5	% RPD	CH	12-MAR-01	6020	
			ZN	3.1	% RPD	EH	10-MAR-01	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010196

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DAYS ANALYZED	HOLD DAYS METHOD
WG010196-6		Reporting Limit	AS	0.005	ppm		12-MAR-01	6020
			CA	1.0	ppm			6010
			CD	0.005	ppm			6020
			CL-	1.0	ppm			325.2
			CO3	1.0	ppm			310.1
			COND.	5.0	umhos/cm2			120.1
			CR	0.010	ppm			6010
			CU	0.025	ppm			6010
			F-	0.10	ppm			340.2
			FE	0.10	ppm			6010
			HCO3	1.0	ppm			310.1
			K	2.0	ppm			6010
			MG	1.0	ppm			6010
			NA	2.0	ppm			353.2
			NO2/NO3	0.10	ppm			6020
			PB	0.003	ppm			6020
			SE	0.005	ppm			9036
			SO4=	2.0	ppm			160.1
			TDS	10.	ppm			160.2
			TSS	1.0	ppm			6010
			ZN	0.020	ppm			
			AS	87	% Recovery	EH	10-MAR-01	6010
WG010196-7		Matrix Spike	AS	<0.005	ppm	EH	10-MAR-01	6010
WG010196-8		Prep Blank	AS	95	% Recovery	EH	10-MAR-01	6010
WG010196-9		Lab Control Sample	AS	1.8	% RPD	EH	10-MAR-01	6010
WG010196-10		Duplicate						

Approved

Reviewer

Hydromeritics

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	
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	REMARKS		
2-16-01	815			EPR1-0102-119	X	X			X						
2-16-01	910			EPR1-0102-151	X	X			X						
2-16-01	915			EPR1-0102-232	X	X			X						
2-16-01	940			EPR1-0102-147	X	X			X						
2-16-01	1015			EPR1-0102-146	X	X			X						
2-16-01	1045			EPR1-0102-140	X	X			X						
2-16-01	1115			EPR1-0102-233	X	X			X						
2-16-01	1030			EPR1-0102-164	X	X			X						
2-16-01	1100			EPR1-0102-120	X	X			X						
2-16-01	1330			EPR1-0102-234	X	X			X						
2-16-01	1420			EPR1-0102-118	X	X			X						
2-16-01	1425			EPR1-0102-235	X	X			X						
2-16-01	1500			EPR1-0102-122	X	X			X						
2-16-01	1545			EPR1-0102-114	X	X			X						
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex UPS		Other		Air Bill #	
[Signature]		2/20/01 1600		[Signature]		TSC - SLE, UT									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
[Signature]				[Signature]											
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time									
[Signature]				[Signature]											

Split Samples:
If Analyzed If Declined

Electronic copy to:

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD ANALYZED	METHOD
L010244-001	21-FEB-01	EPRI-0102-127	AS	2.5	ppm	EH	23-MAR-01 180	6010
			CA	194.	ppm	EH	23-MAR-01 180	6010
			CD	0.005	ppm	BD	27-MAR-01 180	6020
			CL-	671.	ppm	JN	21-MAR-01 28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1
			COND.	5660.	umhos/cm2	BD	27-FEB-01 28	120.1
			CR	0.018	ppm	EH	23-MAR-01 180	6010
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	4.8	ppm	EH	14-MAR-01 28	340.2
			FE	0.14	ppm	EH	27-MAR-01 180	6010
			HCO3	440.	ppm	DC	26-FEB-01 14	310.1
			K	194.	ppm CaCO3	EH	23-MAR-01 180	6010
			MG	101.	ppm	EH	23-MAR-01 180	6010
			NA	900.	ppm	EH	23-MAR-01 180	6010
			NO2/NO3	5.1	ppm	JN	15-MAR-01 28	353.2
			PB	<0.003	ppm	BD	27-MAR-01 180	6020
			PH	7.5	ph	DC	26-FEB-01	150.1
			SE	0.31	ppm	BD	27-MAR-01 180	6020
			SO4=	2060.	ppm	JN	12-MAR-01 28	9036
			TDS	4282.	ppm	BD	27-FEB-01 7	160.1
			TSS	7.2	ppm	BD	26-FEB-01	160.2
			ZN	0.11	ppm	BD	27-MAR-01 180	6020
			AS	2.2	ppm	EH	23-MAR-01 180	6010
			CA	177.	ppm	EH	23-MAR-01 180	6010
			CD	0.005	ppm	BD	27-MAR-01 180	6020
			CL-	566.	ppm	JN	21-MAR-01 28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1
L010244-002	21-FEB-01	EPRI-0102-236	COND.	5650.	umhos/cm2	BD	27-FEB-01 28	120.1
			CR	0.010	ppm	EH	23-MAR-01 180	6010
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	4.8	ppm	EH	14-MAR-01 28	340.2
			FE	0.16	ppm	EH	27-MAR-01 180	6010
			HCO3	430.	ppm	DC	26-FEB-01 14	310.1
			K	82.	ppm CaCO3	EH	23-MAR-01 180	6010
			MG	91.	ppm	EH	23-MAR-01 180	6010
			NA	793.	ppm	EH	23-MAR-01 180	6010
			NO2/NO3	4.4	ppm	JN	15-MAR-01 28	353.2
			PB	<0.003	ppm	BD	27-MAR-01 180	6020
			AS	2.2	ppm	EH	23-MAR-01 180	6010
			CA	177.	ppm	EH	23-MAR-01 180	6010
			CD	0.005	ppm	BD	27-MAR-01 180	6020
			CL-	566.	ppm	JN	21-MAR-01 28	325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010244-002	21-FEB-01	EPRI-0102-236	PH	7.5	pH	DC	26-FEB-01	150.1	
			SE	0.29	ppm	BD	27-MAR-01	180	6020
			SO4=	2012.	ppm	JN	12-MAR-01	28	9036
			TDS	4272.	ppm	BD	27-FEB-01	7	160.1
			TSS	5.9	ppm	BD	26-FEB-01		160.2
			ZN	0.10	ppm	BD	27-MAR-01	180	6020
			AS	0.096	ppm	BD	27-MAR-01	180	6020
			CA	287.	ppm	EH	23-MAR-01	180	6010
			CD	0.009	ppm	BD	27-MAR-01	180	6020
			CL-	707.	ppm	JN	21-MAR-01	28	325.2
L010244-003	21-FEB-01	EPRI-0102-132	CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1	
			COND.	8610.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	0.019	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	28	340.2
			F-	1.6	ppm	EH	14-MAR-01	28	6010
			FE	1.5	ppm	EH	27-MAR-01	180	6010
			HCO3	159.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	15.	ppm	EH	23-MAR-01	180	6010
			MG	95.	ppm	EH	23-MAR-01	180	6010
			NA	1390.	ppm	JN	15-MAR-01	28	353.2
			NO2/NO3	86.	ppm	BD	27-MAR-01	180	6020
			PB	0.004	ppm	BD	26-FEB-01	150.1	
			PH	8.1	pH	DC	27-MAR-01	180	6020
			SE	0.49	ppm	BD	27-MAR-01	180	6020
			SO4=	4220.	ppm	JN	12-MAR-01	28	9036
			TDS	7016.	ppm	BD	27-FEB-01	7	160.1
			TSS	35.	ppm	BD	26-FEB-01		160.2
			ZN	0.088	ppm	BD	27-MAR-01	180	6020
			AS	1.1	ppm	EH	23-MAR-01	180	6010
			CA	147.	ppm	EH	23-MAR-01	180	6010
L010244-004	21-FEB-01	EPRI-0102-130	CD	0.010	ppm	BD	27-MAR-01	180	6020
			CL-	396.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1	
			COND.	4060.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	2.7	ppm	EH	14-MAR-01	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PAVS METHOD	
L010244-004	21-FEB-01	EPRI-0102-130	FE	0.31	ppm	EH	27-MAR-01	180	6010
			HCO3	320.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	39.	ppm	EH	23-MAR-01	180	6010
			MG	59.	ppm	EH	23-MAR-01	180	6010
			NA	598.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	5.1	ppm	JN	19-MAR-01	28	353.2
			PB	<0.003	ppm	BD	27-MAR-01	180	6020
			PH	7.7	pH	DC	26-FEB-01	150.1	
			SE	0.31	ppm	BD	27-MAR-01	180	6020
			SO4=	1537.	ppm	JN	12-MAR-01	28	9036
			TDS	2970.	ppm	BD	27-FEB-01	7	160.1
			TSS	6.0	ppm	BD	26-FEB-01	160.2	
			ZN	0.11	ppm	BD	27-MAR-01	180	6020
			AS	0.041	ppm	BD	27-MAR-01	180	6020
			CA	186.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	818.	ppm CaCO3	JN	21-MAR-01	28	325.2
L010244-005	21-FEB-01	EPRI-0102-131	CO3	<1.0	ppm	DC	26-FEB-01	28	310.1
			COND.	7140.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	0.057	ppm	EH	23-MAR-01	180	6010
			CU	0.031	ppm	EH	23-MAR-01	180	6010
			F-	2.0	ppm	EH	14-MAR-01	28	340.2
			FE	2.6	ppm	EH	27-MAR-01	180	6010
			HCO3	539.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	26.	ppm	EH	23-MAR-01	180	6010
			MG	111.	ppm	EH	23-MAR-01	180	6010
			NA	1041.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.56	ppm	JN	19-MAR-01	28	353.2
			PB	0.027	ppm	BD	27-MAR-01	180	6020
			PH	7.5	pH	DC	26-FEB-01	150.1	
			SE	0.077	ppm	BD	27-MAR-01	180	6020
			SO4=	2922.	ppm	JN	12-MAR-01	28	9036
			TDS	5319.	ppm	BD	27-FEB-01	7	160.1
			TSS	50.	ppm	BD	26-FEB-01	160.2	
L010244-006	21-FEB-01	EPRI-0102-128	ZN	0.15	ppm	BD	27-MAR-01	180	6020
			AS	0.021	ppm	BD	27-MAR-01	180	6020
			CA	490.	ppm	EH	23-MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	
							ANALYZED	HOLD
L010244-006	21-FEB-01	EPRI-0102-128	CD	<0.005	ppm	BD	27-MAR-01	180
			CL-	1013.	ppm	JN	21-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	325.2
			COND.	8090.	umhos/cm2	BD	27-FEB-01	310.1
			CR	0.29	ppm	EH	23-MAR-01	180
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	1.5	ppm	EH	14-MAR-01	28
			FE	1.8	ppm	EH	27-MAR-01	180
			HCO3	282.	ppm CaCO3	DC	26-FEB-01	14
			K	12.	ppm	EH	23-MAR-01	180
			MG	178.	ppm	EH	23-MAR-01	180
			NA	1092.	ppm	EH	23-MAR-01	180
			NO2/NO3	44.	ppm	JN	19-MAR-01	28
			PB	<0.003	ppm	BD	27-MAR-01	180
			PH	7.5	pH	DC	26-FEB-01	150.1
			SE	0.21	ppm	BD	27-MAR-01	180
			SO4=	3529.	ppm	JN	12-MAR-01	28
			TDS	6773.	ppm	BD	27-FEB-01	7
			TSS	12.	ppm	BD	26-FEB-01	160.1
			ZN	0.083	ppm	BD	27-MAR-01	180
								6020
			AS	7.5	ppm	EH	23-MAR-01	180
			CA	407.	ppm	EH	23-MAR-01	180
			CD	0.011	ppm	BD	23-MAR-01	180
			CL-	536.	ppm	JN	21-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1
			COND.	6650.	umhos/cm2	BD	27-FEB-01	28
			CR	<0.010	ppm	EH	23-MAR-01	180
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	2.6	ppm	EH	14-MAR-01	28
			FE	0.49	ppm	EH	27-MAR-01	180
			HCO3	360.	ppm CaCO3	DC	26-FEB-01	14
			K	31.	ppm	EH	23-MAR-01	180
			MG	91.	ppm	EH	23-MAR-01	180
			NA	881.	ppm	EH	23-MAR-01	180
			NO2/NO3	31.	ppm	JN	19-MAR-01	28
			PB	0.003	ppm	BD	27-MAR-01	180
			PH	7.7	pH	DC	26-FEB-01	150.1
			SE	0.26	ppm	BD	27-MAR-01	180

L010244-007 21-FEB-01 EPRI-0102-134

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010244-007	21-FEB-01	EPRI-0102-134	SO4=	3128.	ppm	JN	12-MAR-01	28	9036
			TDS	5559.	ppm	BD	27-FEB-01	7	160.1
			TSS	11.	ppm	BD	26-FEB-01		160.2
			ZN	0.093	ppm	BD	27-MAR-01	180	6020
			AS	0.98	ppm	EH	23-MAR-01	180	6010
			CA	205.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	645.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	26-FEB-01		310.1
			COND.	5630.	umhos/cm2	BD	27-FEB-01	28	120.1
L010244-008	21-FEB-01	EPRI-0102-175	CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	2.6	ppm	EH	14-MAR-01	28	340.2
			FE	1.6	ppm	EH	27-MAR-01	130	6010
			HCO3	347.	ppm	DC	26-FEB-01	14	310.1
			K	55.	ppm	EH	23-MAR-01	180	6010
			MG	61.	ppm	EH	23-MAR-01	180	6010
			NA	772.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	19-MAR-01	28	353.2
			PB	<0.003	ppm	BD	27-MAR-01	180	6020
			PH	7.6	pH	DC	26-FEB-01		150.1
			SE	0.014	ppm	BD	27-MAR-01	180	6020
			SO4=	2304.	ppm	JN	12-MAR-01	28	9036
			TDS	4229.	ppm	BD	27-FEB-01	7	160.1
			TSS	7.4	ppm	BD	26-FEB-01		160.2
			ZN	0.047	ppm	BD	27-MAR-01	180	6020
			AS	0.027	ppm	BD	27-MAR-01	180	6020
			CA	226.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	615.	ppm	JN	21-MAR-01	28	325.2
L010244-009	21-FEB-01	EPRI-0102-176	CO3	<1.0	ppm	DC	26-FEB-01		310.1
			COND.	7300.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	1.7	ppm	EH	14-MAR-01	28	340.2
			FE	0.22	ppm	EH	27-MAR-01	180	6010
			HCO3	582.	ppm	DC	26-FEB-01	14	310.1
					ppm	CaCO3			
					ppm				
					ppm				

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	
							ANALYZED	HOLD DAYS
L010244-009	21-FEB-01	EPRI-0102-176	K	89.	ppm	EH	23-MAR-01	180
			MG	116.	ppm	EH	23-MAR-01	180
			NA	914.	ppm	EH	23-MAR-01	180
			NO2/NO3	0.10	ppm	JN	19-MAR-01	28
			PB	<0.003	ppm	BD	27-MAR-01	180
			PH	7.7	pH	DC	26-FEB-01	150.1
			SE	0.022	ppm	BD	27-MAR-01	180
			SO4=	2761.	ppm	JN	12-MAR-01	28
			TDS	5102.	ppm	BD	27-FEB-01	7
			TSS	2.8	ppm	BD	26-FEB-01	160.1
			ZN	0.046	ppm	BD	27-MAR-01	180
			AS	0.016	ppm	BD	27-MAR-01	180
			CA	93.	ppm	EH	23-MAR-01	180
			CD	<0.005	ppm	BD	27-MAR-01	180
			CL-	318.	ppm	JN	21-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1
			COND.	3480.	umhos/cm2	BD	27-FEB-01	28
L010244-010	21-FEB-01	EPRI-0102-177	CR	<0.010	ppm	EH	23-MAR-01	180
			CU	<0.025	ppm	EH	23-MAR-01	180
			F-	3.1	ppm	EH	14-MAR-01	28
			FE	0.51	ppm	EH	27-MAR-01	180
			HCO3	344.	ppm	DC	26-FEB-01	14
			K	32.	ppm	EH	23-MAR-01	180
			MG	40.	ppm	EH	23-MAR-01	180
			NA	467.	ppm	EH	23-MAR-01	180
			NO2/NO3	0.10	ppm	JN	19-MAR-01	28
			PB	<0.003	ppm	BD	27-MAR-01	180
			PH	7.9	pH	DC	26-FEB-01	150.1
			SE	0.007	ppm	BD	27-MAR-01	180
			SO4=	1220.	ppm	JN	12-MAR-01	28
			TDS	2393.	ppm	BD	27-FEB-01	7
			TSS	2.7	ppm	BD	26-FEB-01	160.1
			ZN	0.045	ppm	BD	27-MAR-01	180
			AS	37.	ppm	EH	23-MAR-01	180
L010244-011	21-FEB-01	EPRI-0102-121	CA	330.	ppm	EH	23-MAR-01	180
			CD	1.0	ppm	BD	27-MAR-01	180
			CL-	518.	ppm	JN	21-MAR-01	28
								325.2

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010244-011	21-FEB-01	EPRI-0102-121	CO3	<1.0	ppm CaCO3	DC	26-FEB-01	28	310.1
			COND.	7430.	umhos/cm2	BD	27-FEB-01	180	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	180	6010
			F-	5.9	ppm	EH	14-MAR-01	28	340.2
			FE	3.8	ppm	EH	27-MAR-01	180	6010
			HCO3	330.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	64.	ppm	EH	23-MAR-01	180	6010
			MG	80.	ppm	EH	23-MAR-01	180	6010
			NA	1037.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	58.	ppm	JN	19-MAR-01	28	353.2
			PE	<0.003	ppm	BD	27-MAR-01	180	6020
			PH	7.6	pH	DC	26-FEB-01	180	150.1
			SE	1.1	ppm	BD	27-MAR-01	180	6020
			SO4=	3093.	ppm	JN	12-MAR-01	28	9036
			TDS	5938.	ppm	BD	27-FEB-01	7	160.1
			TSS	298.	ppm	BD	26-FEB-01	180	160.2
			ZN	3.6	ppm	BD	27-MAR-01	180	6020
L010244-012	21-FEB-01	EPRI-0102-111	AS	8.6	ppm	EH	23-MAR-01	180	6010
			CA	68.	ppm	EH	23-MAR-01	180	6010
			CD	0.016	ppm	BD	27-MAR-01	180	6020
			CL-	481.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	180	310.1
			COND.	5020.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	0.45	ppm	EH	23-MAR-01	180	6010
			F-	3.0	ppm	EH	14-MAR-01	28	340.2
			FE	1.4	ppm	EH	27-MAR-01	180	6010
			HCO3	499.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	39.	ppm	EH	23-MAR-01	180	6010
			MG	41.	ppm	EH	23-MAR-01	180	6010
			NA	649.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.55	ppm	JN	19-MAR-01	28	353.2
			PB	0.16	ppm	BD	27-MAR-01	180	6020
			PH	8.0	pH	DC	26-FEB-01	180	150.1
			SE	0.013	ppm	BD	27-MAR-01	180	6020
			SO4=	2788.	ppm	JN	12-MAR-01	28	9036
			TDS	2964.	ppm	BD	27-FEB-01	7	160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010244-014	22-FEB-01	EPRI-0102-163	NA	646.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	64.	ppm	JN	19-MAR-01	28	353.2
			PB	0.30	ppm	BD	27-MAR-01	180	6020
			PH	7.9	pH	DC	26-FEB-01		150.1
			SE	1.1	ppm	BD	27-MAR-01	180	6020
			SO4=	2232.	ppm	JN	12-MAR-01	28	9036
			TDS	4192.	ppm	BD	27-FEB-01	7	160.1
			TSS	365.	ppm	BD	26-FEB-01		160.2
			ZN	0.73	ppm	BD	27 MAR 01	180	6020
			AS	6.0	ppm	EH	23-MAR-01	180	6010
			CA	408.	ppm	EH	23-MAR-01	180	6010
			CD	1.6	ppm	BD	28-MAR-01	180	6020
			CL-	470.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01		310.1
			COND.	6230.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	0.069	ppm	EH	23-MAR-01	180	6010
			CU	38.	ppm	EH	23-MAR-01		6010
L010244-015	22-FEB-01	EPRI-0102-180	F-	4.5	ppm	EH	14-MAR-01	28	340.2
			FE	77.	ppm	EH	27-MAR-01	180	6010
			HCO3	860.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	67.	ppm	EH	23-MAR-01	180	6010
			MG	106.	ppm	EH	23-MAR-01	180	6010
			NA	941.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	17.	ppm	EH	19-MAR-01	28	353.2
			PB	4.2	ppm	BD	28-MAR-01	180	6020
			PH	7.3	pH	DC	26-FEB-01		150.1
			SE	0.37	ppm	BD	28-MAR-01	180	6020
			SO4=	2114.	ppm	JN	12-MAR-01	28	9036
			TDS	4455.	ppm	BD	27-FEB-01	7	160.1
			TSS	2965.	ppm	BD	26-FEB-01		160.2
			ZN	7.4	ppm	EH	23-MAR-01	180	6010
			AS	6.4	ppm	EH	23-MAR-01	180	6010
			CA	476.	ppm	EH	23-MAR-01	180	6010
			CD	1.2	ppm	BD	28-MAR-01	180	6020
L010244-016	22-FEB-01	EPRI-0102-181	CL-	379.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01		310.1
			COND.	3920.	umhos/cm2	BD	27-FEB-01	28	120.1
			AS	6.4	ppm	EH	23-MAR-01	180	6010
			CA	476.	ppm	EH	23-MAR-01	180	6010

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Batch No: L010244

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L010244-016	22-FEB-01	EPRI-0102-181	CR	0.064	ppm	EH	23-MAR-01	180	6010
			CU	0.77	ppm	EH	23-MAR-01	180	6010
			F-	3.7	ppm	EH	14-MAR-01	28	340.2
			FE	78.	ppm	EH	27-MAR-01	180	6010
			HCO3	873.	ppm	DC	26-FEB-01	14	310.1
			K	100.	ppm	EH	23-MAR-01	180	6010
			MG	71.	ppm	EH	23-MAR-01	180	6010
			NA	447.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	11.	ppm	JN	19-MAR-01	28	353.2
			PB	4.1	ppm	BD	28-MAR-01	180	6020
			PH	7.8	pH	DC	26-FEB-01	150.1	
			SE	1.3	ppm	BD	28-MAR-01	180	6020
			SO4=	1431.	ppm	JN	12-MAR-01	28	9036
			TDS	2971.	ppm	BD	27-FEB-01	7	160.1
			TSS	5918.	ppm	BD	26-FEB-01	160.2	
			ZN	1.6	ppm	EH	23-MAR-01	180	6010
L010244-017	22-FEB-01	EPRI-0102-182	AS	1.4	ppm	EH	23-MAR-01	180	6010
			CA	586.	ppm	EH	23-MAR-01	180	6010
			CD	0.061	ppm	BD	28-MAR-01	180	6020
			CL-	370.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	26-FEB-01	310.1	
			COND.	3380.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	0.27	ppm	EH	23-MAR-01	180	6010
			CU	1.2	ppm	EH	23-MAR-01	180	6010
			F-	1.6	ppm	EH	14-MAR-01	28	340.2
			FE	784.	ppm	EH	27-MAR-01	180	6010
			HCO3	1710.	ppm	DC	26-FEB-01	14	310.1
			K	123.	ppm	EH	23-MAR-01	180	6010
			MG	301.	ppm	EH	23-MAR-01	180	6010
			NA	535.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	17.	ppm	JN	19-MAR-01	28	353.2
			PB	1.4	ppm	BD	28-MAR-01	180	6020
			PH	8.0	pH	DC	26-FEB-01	150.1	
			SE	0.39	ppm	BD	28-MAR-01	180	6020
			SO4=	1112.	ppm	JN	12-MAR-01	28	9036
			TDS	2433.	ppm	BD	27-FEB-01	7	160.1
			TSS	3309.	ppm	BD	26-FEB-01	160.2	
			ZN	2.3	ppm	EH	23-MAR-01	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010244-018	22-FEB-01	EPRI-0102-108	AS	0.98	ppm	BD	28-MAR-01	180	6020
			CA	403.	ppm	EH	23-MAR-01	180	6010
			CD	0.093	ppm	BD	28-MAR-01	180	6020
			CL-	524.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1	310.1
			COND.	8570.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	6010	6010
			F-	1.8	ppm	EH	14-MAR-01	28	340.2
			FE	3.4	ppm	EH	27-MAR-01	180	6010
			HCO3	277.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	43.	ppm	EH	23-MAR-01	180	6010
			MG	199.	ppm	EH	23-MAR-01	180	6010
			NA	1188.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	77.	ppm	JN	19-MAR-01	28	353.2
			PB	0.006	ppm	BD	28-MAR-01	180	6020
			PH	7.5	pH	DC	26-FEB-01	150.1	150.1
			SE	0.32	ppm	BD	28-MAR-01	180	6020
			SO4=	3919.	ppm	JN	12-MAR-01	28	9036
			TDS	7297.	ppm	BD	27-FEB-01	7	160.1
			TSS	185.	ppm	BD	26-FEB-01	160.2	160.2
			ZN	0.065	ppm	BD	28-MAR-01	180	6020
L010244-019	22-FEB-01	EPRI-0102-116	AS	0.65	ppm	BD	28-MAR-01	180	6020
			CA	354.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	28-MAR-01	180	6020
			CL-	523.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1	310.1
			COND.	6480.	umhos/cm2	BD	27-FEB-01	28	120.1
			CR	0.034	ppm	EH	23-MAR-01	180	6010
			CU	0.033	ppm	EH	23-MAR-01	6010	6010
			F-	1.0	ppm	EH	14-MAR-01	28	340.2
			FE	6.8	ppm	EH	27-MAR-01	180	6010
			HCO3	620.	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	16.	ppm	EH	23-MAR-01	180	6010
			MG	122.	ppm	EH	23-MAR-01	180	6010
			NA	843.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	43.	ppm	JN	19-MAR-01	28	353.2
			PB	0.028	ppm	BD	28-MAR-01	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L010244-019	22-FEB-01	EPRI-0102-116	PH	7.4	pH	DC	26-FEB-01	150.1
			SE	0.86	ppm	BD	28-MAR-01	180
			SO4=	2565.	ppm	JN	12-MAR-01	28
			TDS	5283.	ppm	BD	27-FEB-01	7
			TSS	937.	ppm	BD	26-FEB-01	160.1
			ZN	0.053	ppm	BD	28-MAR-01	180
								6020
			AS	0.32	ppm	BD	28-MAR-01	180
			CA	87.	ppm	EH	23-MAR-01	180
			CD	<0.005	ppm	BD	28-MAR-01	180
			CL-	306.	ppm	JN	21-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	325.2
			COND.	3250.	umhos/cm2	BD	27-FEB-01	310.1
			CR	0.089	ppm	EH	23-MAR-01	28
			CU	<0.025	ppm	EH	23-MAR-01	180
			F-	2.8	ppm	EH	14-MAR-01	6010
L010244-020	22-FEB-01	EPRI-0102-115	FE	28.	ppm	EH	23-MAR-01	28
			HCO3	490.	ppm	EH	27-MAR-01	340.2
			K	24.	ppm CaCO3	DC	26-FEB-01	6010
			MG	26.	ppm	EH	23-MAR-01	14
			NA	615.	ppm	EH	23-MAR-01	180
			NO2/NO3	7.2	ppm	JN	23-MAR-01	6010
			PB	0.018	ppm	BD	19-MAR-01	353.2
			PH	7.8	ppm	BD	28-MAR-01	180
			SE	0.17	pH	DC	26-FEB-01	150.1
			SO4=	956.	ppm	BD	28-MAR-01	180
			TDS	2211.	ppm	JN	12-MAR-01	6020
			TSS	2144.	ppm	BD	27-FEB-01	28
			ZN	0.051	ppm	BD	26-FEB-01	7
								160.1
								160.2
								6020
L010244-021	22-FEB-01	EPRI-0102-195	AS	<0.005	ppm	BD	28-MAR-01	180
			CA	169.	ppm	EH	23-MAR-01	6020
			CD	<0.005	ppm	BD	28-MAR-01	180
			CL-	656.	ppm	JN	21-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	325.2
			COND.	5560.	umhos/cm2	BD	27-FEB-01	310.1
			CR	<0.010	ppm	EH	23-MAR-01	28
			CU	<0.025	ppm	EH	23-MAR-01	180
			F-	0.81	ppm	EH	14-MAR-01	6010
								6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010244-021	22-FEB-01	EPRI-0102-195	FE	0.37	ppm	EH	27-MAR-01	180	6010
			HCO3	194.	ppm	DC	26-FEB-01	14	310.1
			K	23.	ppm	EH	23-MAR-01	180	6010
			MG	96.	ppm	EH	23-MAR-01	180	6010
			NA	730.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	19-MAR-01	28	353.2
			PB	<0.003	ppm	BD	28-MAR-01	180	6020
			PH	7.8	pH	DC	26-FEB-01	180	150.1
			SE	<0.005	ppm	BD	28-MAR-01	180	6020
			SO4=	1918.	ppm	JN	12-MAR-01	28	9036
			TDS	4028.	ppm	BD	27-FEB-01	7	160.1
			TSS	2.4	ppm	BD	26-FEB-01	160.2	
			ZN	<0.020	ppm	BD	28-MAR-01	180	6020
			AS	<0.005	ppm	BD	28-MAR-01	180	6020
			CA	183.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	28-MAR-01	180	6020
			CL-	667.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	26-FEB-01	310.1	
			COND.	5560.	umhos/cm2	BD	27-FEB-01	28	120.1
L010244-022	22-FEB-01	EPRI-0102-239	CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	180	6010
			F-	0.78	ppm	EH	14-MAR-01	28	340.2
			FE	0.48	ppm	EH	27-MAR-01	180	6010
			HCO3	190.	ppm	DC	26-FEB-01	14	310.1
			K	24.	ppm	EH	23-MAR-01	180	6010
			MG	105.	ppm	EH	23-MAR-01	180	6010
			NA	752.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.13	ppm	JN	19-MAR-01	28	353.2
			PB	<0.003	ppm	BD	28-MAR-01	180	6020
			PH	7.9	pH	DC	26-FEB-01	150.1	
			SE	<0.005	ppm	BD	28-MAR-01	180	6020
			SO4=	1749.	ppm	JN	12-MAR-01	28	9036
			TDS	4095.	ppm	BD	27-FEB-01	7	160.1
			TSS	9.9	ppm	BD	26-FEB-01	160.2	
			ZN	0.023	ppm	BD	28-MAR-01	180	6020
L010244-023	22-FEB-01	EPRI-0102-124	AS	2.1	ppm	EH	23-MAR-01	180	6010
			CA	329.	ppm	EH	23-MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	METHOD
L010244-023	22-FEB-01	EPRI-0102-124	CD	<0.005	ppm	BD	28-MAR-01	180 6020
			CL-	338.	ppm	JN	21-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1
			COND.	3890.	umhos/cm2	BD	27-FEB-01	28 120.1
			CR	0.064	ppm	EH	23-MAR-01	180 6010
			CU	0.071	ppm	EH	23-MAR-01	6010
			F-	2.9	ppm	EH	14-MAR-01	28 340.2
			FE	73.	ppm	EH	27-MAR-01	180 6010
			HCO3	910.	ppm CaCO3	DC	26-FEB-01	14 310.1
			K	31.	ppm	EH	23-MAR-01	180 6010
			MG	50.	ppm	EH	23-MAR-01	180 6010
			NA	636.	ppm	EH	23-MAR-01	180 6010
			NO2/NO3	0.62	ppm	JN	19-MAR-01	28 353.2
			PB	0.035	ppm	BD	28-MAR-01	180 6020
			PH	7.8	pH	DC	26-FEB-01	150.1
			SE	0.029	ppm	BD	28-MAR-01	180 6020
			SO4=	1206.	ppm	JN	12-MAR-01	28 9036
			TDS	2735.	ppm	BD	27-FEB-01	7 160.1
			TSS	3528.	ppm	BD	26-FEB-01	160.2
			ZN	0.23	ppm	EH	23-MAR-01	180 6010
L010244-024	22-FEB-01	EPRI-0102-123	AS	60.	ppm	EH	23-MAR-01	180 6010
			CA	507.	ppm	EH	23-MAR-01	180 6010
			CD	0.84	ppm	BD	28-MAR-01	180 6020
			CL-	602.	ppm	JN	21-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01	310.1
			COND.	9110.	umhos/cm2	BD	27-FEB-01	28 120.1
			CR	0.019	ppm	EH	23-MAR-01	180 6010
			CU	0.18	ppm	EH	23-MAR-01	6010
			F-	14.	ppm	EH	14-MAR-01	28 340.2
			FE	50.	ppm	EH	27-MAR-01	180 6010
			HCO3	920.	ppm CaCO3	DC	26-FEB-01	14 310.1
			K	132.	ppm	EH	23-MAR-01	180 6010
			MG	238.	ppm	EH	23-MAR-01	180 6010
			NA	994.	ppm	EH	23-MAR-01	180 6010
			NO2/NO3	0.13	ppm	JN	19-MAR-01	28 353.2
			PB	0.29	ppm	BD	28-MAR-01	180 6020
			PH	6.9	pH	DC	26-FEB-01	150.1
			SE	0.20	ppm	BD	28-MAR-01	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010244-024	22-FEB-01	EPRI-0102-123	SO4=	3638.	ppm	JN	12-MAR-01	28	9036
			TDS	7272.	ppm	BD	27-FEB-01	7	160.1
			TSS	2125.	ppm	BD	26-FEB-01		160.2
			ZN	77.	ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	28-MAR-01	180	6020
			CA	<1.0	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	28-MAR-01	180	6020
			CL-	<1.0	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01		310.1
			COND.	<5.0	umhos/cm2	BD	27-FEB-01	28	120.1
L010244-025	22-FEB-01	EPRI-0102-239	CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	<0.050	ppm	EH	14-MAR-01	28	340.2
			FE	<0.10	ppm	EH	27-MAR-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	26-FEB-01	14	310.1
			K	<2.0	ppm	EH	23-MAR-01	180	6010
			MG	<1.0	ppm	EH	23-MAR-01	180	6010
			NA	<2.0	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	19-MAR-01	28	353.2
			PB	<0.003	ppm	BD	28-MAR-01	180	6020
			PH	5.5	pH	DC	26-FEB-01		150.1
			SE	<0.005	ppm	BD	28-MAR-01	180	6020
			SO4=	<2.0	ppm	JN	12-MAR-01	28	9036
			TDS	<10.	ppm	BD	27-FEB-01	7	160.1
			TSS	<1.0	ppm	BD	26-FEB-01		160.2
			ZN	<0.020	ppm	BD	28-MAR-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


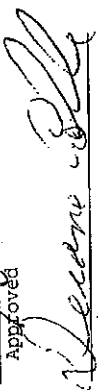
El Paso

Water and Solid Waste (Project 3220)

Batch No: L010244

LAP 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.


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	METHOD
WG010226-1		Matrix Spike	AS	104	%Recovery	BD	27-MAR-01		6020
			CD	87	%Recovery	BD	27-MAR-01		6020
			CL-	91	%Recovery	JN	21-MAR-01		325.2
			CR	83	%Recovery	EH	23-MAR-01		6010
			CU	97	%Recovery	EH	23-MAR-01		6010
			F-	101	%Recovery	EH	14-MAR-01		340.2
			FE	83	%Recovery	EH	27-MAR-01		6010
			NO2/NO3	98	%Recovery	JN	15-MAR-01		353.2
			PB	86	%Recovery	BD	27-MAR-01		6020
			SE	101	%Recovery	BD	27-MAR-01		6020
			SO4=	105	%Recovery	JN	12-MAR-01		9036
			ZN	94	%Recovery	BD	27-MAR-01		6020
			AS	<0.005	ppm	BD	27-MAR-01		6020
			CA	<1.0	ppm	EH	23-MAR-01		6010
			CD	<0.005	ppm	BD	27-MAR-01		6020
			CL-	<1.0	ppm	JN	21-MAR-01		325.2
			CO3	<1.0	ppm CaCO3	DC	26-FEB-01		310.1
WG010226-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	27-FEB-01		120.1
			CR	<0.010	ppm	EH	23-MAR-01		6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	<0.050	ppm	EH	14-MAR-01		340.2
			FE	<0.10	ppm	EH	27-MAR-01		6010
			HCO3	<1.0	ppm CaCO3	DC	26-FEB-01		310.1
			K	<2.0	ppm	EH	23-MAR-01		6010
			MG	<1.0	ppm	EH	23-MAR-01		6010
			NA	<2.0	ppm	EH	23-MAR-01		6010
			NO2/NO3	<0.10	ppm	JN	15-MAR-01		353.2
			PB	<0.003	ppm	BD	27-MAR-01		6020
			SE	<0.005	ppm	BD	27-MAR-01		6020
			SO4=	<2.0	ppm	JN	12-MAR-01		9036
			TDS	<10.	ppm	BD	27-FEB-01		160.1
			TSS	<1.0	ppm	BD	26-FEB-01		160.2
			ZN	<0.020	ppm	BD	27-MAR-01		6020
WG010226-3		Lab Control Sample	AS	105	%Recovery	BD	27-MAR-01		6020
			CA	85	%Recovery	EH	23-MAR-01		6010
			CD	96	%Recovery	BD	27-MAR-01		6020
			CL-	107	%Recovery	JN	21-MAR-01		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010226-3		Lab Control Sample	COND.	100	% Recovery	BD	27-FEB-01	120.1	
			CR	85	% Recovery	EH	23-MAR-01	6010	
			CU	85	% Recovery	EH	23-MAR-01	6010	
			F-	93	% Recovery	EH	14-MAR-01	340.2	
			FE	85	% Recovery	EH	27-MAR-01	6010	
			HCO3	98	% Recovery	DC	26-FEB-01	310.1	
			K	88	% Recovery	EH	23-MAR-01	6010	
			MG	85	% Recovery	EH	23-MAR-01	6010	
			NA	88	% Recovery	EH	23-MAR-01	6010	
			NO2/NO3	106	% Recovery	JN	15-MAR-01	353.2	
			PB	90	% Recovery	BD	27-MAR-01	6020	
			SE	105	% Recovery	BD	27-MAR-01	6020	
			SO4=	101	% Recovery	JN	12-MAR-01	9036	
			TDS	95	% Recovery	BD	27-FEB-01	160.1	
			TSS	109	% Recovery	BD	26-FEB-01	160.2	
			ZN	108	% Recovery	BD	27-MAR-01	6020	
			CL-	<1	% RPD	JN	21-MAR-01	325.2	
			CO3	<1	% RPD	DC	26-FEB-01	310.1	
			COND.	<1	% RPD	BD	27-FEB-01	120.1	
			F-	<1	% RPD	EH	14-MAR-01	340.2	
WG010226-4		Duplicate	HCO3	1.3	% RPD	DC	26-FEB-01	310.1	
			NO2/NO3	+/-prdl	% RPD	JN	15-MAR-01	353.2	
			SO4=	<1	% RPD	JN	12-MAR-01	9036	
			TDS	2.2	% RPD	BD	27-FEB-01	160.1	
			TSS	7.9	% RPD	BD	26-FEB-01	160.2	
			AS	1.7	% RPD	BD	27-MAR-01	6020	
			CA	2.3	% RPD	EH	23-MAR-01	6010	
			CD	<1	% RPD	BD	27-MAR-01	6020	
			CR	<1	% RPD	EH	23-MAR-01	6010	
			CU	<1	% RPD	EH	23-MAR-01	6010	
			FE	<1	% RPD	EH	27-MAR-01	6010	
			K	1.7	% RPD	EH	23-MAR-01	6010	
			MG	1.1	% RPD	EH	23-MAR-01	6010	
			NA	1.8	% RPD	EH	23-MAR-01	6010	
			PB	1.5	% RPD	BD	27-MAR-01	6020	
			SE	1.3	% RPD	BD	27-MAR-01	6020	
			ZN	1.7	% RPD	BD	27-MAR-01	6020	
WG010226-5		Matrix Spike Duplicate	COND.	100	% Recovery	BD	27-FEB-01	120.1	
			CR	85	% Recovery	EH	23-MAR-01	6010	
			CU	85	% Recovery	EH	23-MAR-01	6010	
			F-	93	% Recovery	EH	14-MAR-01	340.2	
			FE	85	% Recovery	EH	27-MAR-01	6010	
			HCO3	98	% Recovery	DC	26-FEB-01	310.1	
			K	88	% Recovery	EH	23-MAR-01	6010	
			MG	85	% Recovery	EH	23-MAR-01	6010	
			NA	88	% Recovery	EH	23-MAR-01	6010	
			NO2/NO3	106	% Recovery	JN	15-MAR-01	353.2	
			PB	90	% Recovery	BD	27-MAR-01	6020	
			SE	105	% Recovery	BD	27-MAR-01	6020	
			SO4=	101	% Recovery	JN	12-MAR-01	9036	
			TDS	95	% Recovery	BD	27-FEB-01	160.1	
			TSS	109	% Recovery	BD	26-FEB-01	160.2	
			ZN	108	% Recovery	BD	27-MAR-01	6020	
			CL-	<1	% RPD	JN	21-MAR-01	325.2	
			CO3	<1	% RPD	DC	26-FEB-01	310.1	
			COND.	<1	% RPD	BD	27-FEB-01	120.1	
			F-	<1	% RPD	EH	14-MAR-01	340.2	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010226-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2	BD	27-FEB-01		120.1
			CR	0.010	ppm				6010
			CU	0.025	ppm				6010
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			HCO3	1.0	ppm CaCO3				6010
			K	2.0	ppm				310.1
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	0.10	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				9036
			SO4=	2.0	ppm				160.1
			TDS	1.0	ppm				160.2
			TSS	1.0	ppm				6020
			ZN	0.020	ppm				6010
WG010226-7		Matrix Spike	AS	86	%Recovery	EH	23-MAR-01		6010
			CD	88	%Recovery	BD	28-MAR-01		6020
			CL-	108	%Recovery	JN	21-MAR-01		325.2
			CR	86	%Recovery	EH	23-MAR-01		6010
			CU	92	%Recovery	EH	23-MAR-01		6010
			F-	101	%Recovery	EH	14-MAR-01		340.2
			FE	84	%Recovery	EH	27-MAR-01		6010
			NO2/NO3	92	%Recovery	JN	19-MAR-01		353.2
			PB	87	%Recovery	BD	28-MAR-01		6020
			SE	95	%Recovery	BD	28-MAR-01		6020
			SO4=	102	%Recovery	JN	12-MAR-01		9036
			ZN	83	%Recovery	EH	23-MAR-01		6010
WG010226-8		Prep Blank	AS	<0.020	ppm	EH	23-MAR-01		6010
			CA	<1.0	ppm	EH	23-MAR-01		6010
			CD	<0.005	ppm	BD	28-MAR-01		6020
			CL-	<1.0	ppm	JN	21-MAR-01		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010226-8		Prep Blank	CO3	<1.0	ppm CaCO3	DC	26-FEB-01		310.1
			COND.	<5.0	umhos/cm2	BD	27-FEB-01		120.1
			CR	<0.010	ppm	EH	23-MAR-01		6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	<0.050	ppm	EH	14-MAR-01		340.2
			FE	<0.10	ppm	EH	27-MAR-01		6010
			HCO3	<1.0	ppm CaCO3	DC	26-FEB-01		310.1
			K	<2.0	ppm	EH	23-MAR-01		6010
			MG	<1.0	ppm	EH	23-MAR-01		6010
			NA	<2.0	ppm	EH	23-MAR-01		6010
			NO2/NO3	<0.10	ppm	JN	19-MAR-01		353.2
			PB	<0.003	ppm	BD	28-MAR-01		6020
			SE	<0.005	ppm	BD	28-MAR-01		9036
			SO4=	<2.0	ppm	JN	12-MAR-01		160.1
			TDS	<10.	ppm	BD	26-FEB-01		160.2
			TSS	<1.0	ppm	BD	26-FEB-01		160.2
			ZN	<0.020	ppm	EH	23-MAR-01		6010
WG010226-9		Lab Control Sample	AS	83	%Recovery	EH	23-MAR-01		6010
			CA	88	%Recovery	EH	23-MAR-01		6010
			CD	99	%Recovery	BD	28-MAR-01		6020
			CL-	100	%Recovery	JN	21-MAR-01		325.2
			COND.	100	%Recovery	BD	27-FEB-01		120.1
			CR	90	%Recovery	EH	23-MAR-01		6010
			CU	93	%Recovery	EH	23-MAR-01		6010
			F-	97	%Recovery	EH	14-MAR-01		340.2
			FE	90	%Recovery	EH	27-MAR-01		6010
			HCO3	100	%Recovery	DC	26-FEB-01		310.1
			K	90	%Recovery	EH	23-MAR-01		6010
			MG	88	%Recovery	EH	23-MAR-01		6010
			NA	90	%Recovery	EH	23-MAR-01		6010
			NO2/NO3	94	%Recovery	JN	19-MAR-01		353.2
			PB	95	%Recovery	BD	28-MAR-01		6020
			SE	98	%Recovery	BD	28-MAR-01		9036
			SO4=	96	%Recovery	JN	12-MAR-01		160.1
			TDS	94	%Recovery	BD	27-FEB-01		160.1
			TSS	107	%Recovery	BD	26-FEB-01		160.2
			ZN	86	%Recovery	EH	23-MAR-01		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010226-10		Duplicate	CL-	8.2	% RPD	JN	21-MAR-01		325.2
			CO3	<1	% RPD	DC	26-FEB-01		310.1
			COND.	<1	% RPD	BD	27-FEB-01		120.1
			F-	1.4	% RPD	EH	14-MAR-01		340.2
			HCO3	<1	% RPD	DC	26-FEB-01		310.1
			NO2/NO3	5.9	% RPD	JN	19-MAR-01		353.2
			SO4=	2.1	% RPD	JN	12-MAR-01		9036
			TDS	<1	% RPD	BD	27-FEB-01		160.1
			TSS	13.	% RPD	BD	26-FEB-01		160.2
			AS	<1	% RPD	EH	23-MAR-01		6010
			CA	1.6	% RPD	EH	23-MAR-01		6010
			CD	<1	% RPD	BD	28-MAR-01		6020
			CR	2.9	% RPD	EH	23-MAR-01		6010
WG010226-11		Matrix Spike Duplicate	CU	5.6	% RPD	EH	23-MAR-01		6010
			FE	<1	% RPD	EH	27-MAR-01		6010
			K	3.3	% RPD	EH	23-MAR-01		6010
			MG	1.0	% RPD	EH	23-MAR-01		6010
			NA	1.4	% RPD	EH	23-MAR-01		6010
			PB	<1	% RPD	BD	28-MAR-01		6020
			SE	<1	% RPD	BD	28-MAR-01		6020
			ZN	3.0	% RPD	EH	23-MAR-01		6010

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	
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			
2-21-01	8:40			EPR1-0102-127	X	X			X						
	8:45			EPR1-0102-236	X	X			X						
	9:00			EPR1-0102-132	X	X			X						
	9:30			EPR1-0102-130	X	X			X						
	9:55			EPR1-0102-131	X	X			X						
	10:15			EPR1-0102-128	X	X			X						
	10:40			EPR1-0102-134	X	X			X						
	13:30			EPR1-0102-175	X	X			X						
	13:50			EPR1-0102-176	X	X			X						
	14:10			EPR1-0102-177	X	X			X						
	14:45			EPR1-0102-121	X	X			X						
	15:40			EPR1-0102-111	X	X			X						
	16:00			EPR1-0102-237	X	X			X						
2-22	8:00			EPR1-0102-163	X	X			X						
↓	9:00			EPR1-0102-180	X	X			X						
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, FedEx, UPS							
Date/Time		Date/Time		TSC-SLC, UT				Other							
2/22/01 16:00								Air Bill #							
Relinquished (Signature)		Received by: (Signature)		Remarks											
Date/Time		Date/Time													
2/23/01 10:00															
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time											
Date/Time		Date/Time													
2/23/01 10:00															
Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions		Cover letter											
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined															

Return results & electronic copy to:

HFORM-1

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741
 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	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
124612	ASARCO EIP, TX			3	930	930	930	930	930	930	930	930	930	
				3	1000	1000	1000	1000	1000	1000	1000	1000	1000	
				3	1305	1305	1305	1305	1305	1305	1305	1305	1305	
				3	1330	1330	1330	1330	1330	1330	1330	1330	1330	
				3	1400	1400	1400	1400	1400	1400	1400	1400	1400	
				3	1415	1415	1415	1415	1415	1415	1415	1415	1415	
				3	1450	1450	1450	1450	1450	1450	1450	1450	1450	
				3	1510	1510	1510	1510	1510	1510	1510	1510	1510	
				3	1540	1540	1540	1540	1540	1540	1540	1540	1540	
				3	1600	1600	1600	1600	1600	1600	1600	1600	1600	
Received by: (Signature)					Date/Time	Lab								Shipped via: Bus, (Fed Ex) UPS
Relinquished (Signature)					Date/Time	P.O. #								Other Air Bill #
Received for Laboratory by: (Signature)					Date/Time	Remarks								Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits
Relinquished (Signature)					Date/Time	Date/Time								<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
L010253-001	23-FEB-01	EPRI-0102-126	AS	3.2	ppm	EH	23-MAR-01	180 6010
			CA	433.	ppm	EH	23-MAR-01	180 6010
			CD	<0.005	ppm	BD	26-MAR-01	180 6020
			CL-	852.	ppm	JN	21-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	11300.	umhos/cm2	BD	13-MAR-01	28 120.1
			CR	<0.010	ppm	EH	23-MAR-01	180 6010
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	5.0	ppm	EH	14-MAR-01	28 340.2
			FE	1.2	ppm	EH	23-MAR-01	180 6010
			HCO3	1044.	ppm CaCO3	DC	01-MAR-01	14 310.1
			K	193.	ppm	EH	23-MAR-01	180 6010
			MG	196.	ppm	EH	23-MAR-01	180 6010
			NA	1483.	ppm	EH	23-MAR-01	180 6010
			NO2/NO3	<0.10	ppm	JN	20-MAR-01	28 353.2
			PB	<0.003	ppm	BD	26-MAR-01	180 6020
			PH	7.7	pH	DC	01-MAR-01	180 150.1
			SE	0.053	ppm	BD	26-MAR-01	180 6020
			SO4=	5454.	ppm	EH	23-MAR-01	28 9036
			TDS	8828.	ppm	BD	28-FEB-01	7 160.1
			TSS	6.2	ppm	BD	27-FEB-01	160.2
			ZN	0.033	ppm	EH	23-MAR-01	180 6010
L010253-002	23-FEB-01	EPRI-0102-240	AS	3.5	ppm	EH	23-MAR-01	180 6010
			CA	450.	ppm	EH	23-MAR-01	180 6010
			CD	<0.005	ppm	BD	26-MAR-01	180 6020
			CL-	874.	ppm	JN	21-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	11300.	umhos/cm2	BD	13-MAR-01	28 120.1
			CR	<0.010	ppm	EH	23-MAR-01	180 6010
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	5.0	ppm	EH	14-MAR-01	28 340.2
			FE	0.97	ppm	EH	23-MAR-01	180 6010
			HCO3	1040.	ppm CaCO3	DC	01-MAR-01	14 310.1
			K	197.	ppm	EH	23-MAR-01	180 6010
			MG	205.	ppm	EH	23-MAR-01	180 6010
			NA	1550.	ppm	EH	23-MAR-01	180 6010
			NO2/NO3	<0.10	ppm	JN	20-MAR-01	28 353.2
			PB	<0.003	ppm	BD	26-MAR-01	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L010253-002	23-FEB-01	EPRI-0102-240	PH	8.0	PH	DC	01-MAR-01	150.1
			SE	0.053	ppm	BD	26-MAR-01	180
			SO4=	4884.	ppm	EH	23-MAR-01	28
			TDS	8851.	ppm	BD	28-FEB-01	7
			TSS	19.	ppm	BD	27-FEB-01	160.1
			ZN	0.038	ppm	EH	23-MAR-01	180
								6010
			AS	0.011	ppm	BD	26-MAR-01	180
			CA	319.	ppm	EH	23-MAR-01	180
			CD	<0.005	ppm	BD	26-MAR-01	180
L010253-003	23-FEB-01	EPRI-0102-129	CL-	727.	ppm	JN	21-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	8150.	umhos/cm2	BD	13-MAR-01	28
			CR	<0.010	ppm	EH	23-MAR-01	180
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	1.6	ppm	EH	14-MAR-01	28
			FE	0.38	ppm	EH	23-MAR-01	180
			HCO3	383.	ppm CaCO3	DC	01-MAR-01	14
			K	14.	ppm	EH	23-MAR-01	180
			MG	139.	ppm	EH	23-MAR-01	180
			NA	1182.	ppm	EH	23-MAR-01	180
			NO2/NO3	120.	ppm	JN	20-MAR-01	28
			PB	<0.003	ppm	BD	26-MAR-01	180
			PH	7.7	PH	DC	01-MAR-01	150.1
			SE	0.29	ppm	BD	26-MAR-01	180
			SO4=	3821.	ppm	EH	23-MAR-01	28
			TDS	6710.	ppm	BD	28-FEB-01	7
			TSS	59.	ppm	BD	27-FEB-01	160.1
			ZN	0.036	ppm	EH	23-MAR-01	180
L010253-004	23-FEB-01	EPRI-0102-133	AS	0.006	ppm	BD	26-MAR-01	180
			CA	256.	ppm	EH	23-MAR-01	180
			CD	<0.005	ppm	BD	26-MAR-01	180
			CL-	501.	ppm	JN	22-MAR-01	28
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1
			COND.	6430.	umhos/cm2	BD	13-MAR-01	28
			CR	<0.010	ppm	EH	23-MAR-01	180
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	2.0	ppm	EH	14-MAR-01	28
								340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L010253-004	23-FEB-01	EPRI-0102-133	FE	0.21	ppm	EH	23-MAR-01	180	6010
			HCO3	506.	ppm	DC	01-MAR-01	14	310.1
			K	17.	ppm	EH	23-MAR-01	180	6010
			MG	106.	ppm	EH	23-MAR-01	180	6010
			NA	959.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	26.	ppm	JN	20-MAR-01	28	353.2
			PB	<0.003	ppm	BD	26-MAR-01	180	6020
			PH	7.8	pH	DC	01-MAR-01	180	150.1
			SE	0.21	ppm	BD	26-MAR-01	180	6020
			SO4=	3007.	ppm	EH	23-MAR-01	28	9036
			TDS	5079.	ppm	BD	28-FEB-01	7	160.1
			TSS	14.	ppm	BD	27-FEB-01	160.2	
			ZN	0.038	ppm	EH	23-MAR-01	180	6010
			AS	0.41	ppm	EH	27-MAR-01	180	6010
			CA	185.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL	401.	ppm	JN	21-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	01-MAR-01	310.1	
			COND.	4860.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
L010253-005	23-FEB-01	EPRI-0102-125	CU	<0.025	ppm	EH	23-MAR-01	28	340.2
			F-	0.87	ppm	EH	23-MAR-01	180	6010
			FE	2.8	ppm	EH	23-MAR-01	180	6010
			HCO3	1520.	ppm	DC	01-MAR-01	14	310.1
			K	17.	ppm	EH	23-MAR-01	180	6010
			MG	127.	ppm	EH	23-MAR-01	180	6010
			NA	705.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.14	ppm	JN	20-MAR-01	28	353.2
			PB	0.003	ppm	BD	26-MAR-01	180	6020
			PH	7.8	pH	DC	01-MAR-01	180	150.1
			SE	<0.005	ppm	BD	26-MAR-01	180	6020
			SO4=	965.	ppm	EH	23-MAR-01	28	9036
			TDS	3503.	ppm	BD	28-FEB-01	7	160.1
			TSS	52.	ppm	BD	27-FEB-01	160.2	
			ZN	0.034	ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	26 MAR 01	180	6020
			CA	66.	ppm	EH	23 MAR-01	180	6010
L010253-006	23-FEB-01	EPRI-0102-183	AS	<0.005	ppm	BD	26 MAR 01	180	6020
			CA	66.	ppm	EH	23 MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010253-006	23-FEB-01	EPRI-0102-183	CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	143.	ppm	JN	22-MAR-01	28	325.2
			CO3	8.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	1299.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.75	ppm	EH	14-MAR-01	28	340.2
			FE	1.6	ppm	EH	23-MAR-01	180	6010
			HCO3	200.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	7.2	ppm	EH	23-MAR-01	180	6010
			MG	15.	ppm	EH	23-MAR-01	180	6010
			NA	128.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.80	ppm	JN	20-MAR-01	28	353.2
			PB	<0.003	ppm	BD	26-MAR-01	180	6020
			PH	8.4	pH	DC	01-MAR-01		150.1
			SE	<0.005	ppm	BD	26-MAR-01	180	6020
			SO4=	199.	ppm	EH	23-MAR-01	28	9036
			TDS	805.	ppm	BD	28-FEB-01	7	160.1
			TSS	86.	ppm	BD	27-FEB-01		160.2
			ZN	0.033	ppm	EH	23-MAR-01	180	6010
L010253-007	23-FEB-01	EPRI-0102-188	AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	74.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	163.	ppm	JN	22-MAR-01	28	325.2
			CO3	8.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	1338.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.77	ppm	EH	14-MAR-01	28	340.2
			FE	1.9	ppm	EH	23-MAR-01	180	6010
			HCO3	194.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	8.5	ppm	EH	23-MAR-01	180	6010
			MG	17.	ppm	EH	23-MAR-01	180	6010
			NA	161.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	1.2	ppm	JN	20-MAR-01	28	353.2
			PB	0.004	ppm	BD	26-MAR-01	180	6020
			PH	8.4	pH	DC	01-MAR-01		150.1
			SE	<0.005	ppm	BD	26-MAR-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DATA METHOD
L010253-007	23-FEB-01	EPRI-0102-188	SO4=	225.	ppm	EH	23-MAR-01	28	9036
			TDS	835.	ppm	BD	28-FEB-01	7	160.1
			TSS	88.	ppm	BD	27-FEB-01		160.2
			ZN	0.037	ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	73.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	168.	ppm	JN	22-MAR-01	28	325.2
			CO3	12.	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	1339.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.74	ppm	EH	14-MAR-01	28	340.2
			FE	1.8	ppm	EH	23-MAR-01	180	6010
L010253-008	23-FEB-01	EPRI-0102-185	HCO3	184.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	8.6	ppm	EH	23-MAR-01	180	6010
			MG	16.	ppm	EH	23-MAR-01	180	6010
			NA	158.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	1.2	ppm	JN	20-MAR-01	28	353.2
			PB	0.003	ppm	BD	26-MAR-01	180	6020
			PH	8.5	pH	DC	01-MAR-01		150.1
			SE	<0.005	ppm	BD	26-MAR-01	180	6020
			SO4=	245.	ppm	EH	23-MAR-01	28	9036
			TDS	830.	ppm	BD	28-FEB-01	7	160.1
			TSS	98.	ppm	BD	27-FEB-01		160.2
			ZN	0.028	ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	72.	ppm	EH	23-MAR-01	180	6010
L010253-009	23-FEB-01	EPRI-0102-187	CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	158.	ppm	JN	22-MAR-01	28	325.2
			CO3	8.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	1338.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	BD	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.74	ppm	EH	14-MAR-01	28	340.2
			FE	1.7	ppm	EH	23-MAR-01	180	6010
			HCO3	192.	ppm CaCO3	DC	01-MAR-01	14	310.1
			AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	72.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	158.	ppm	JN	22-MAR-01	28	325.2
			CO3	8.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	1338.	umhos/cm2	BD	13-MAR-01	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010253-009	23-FEB-01	EPRI-0102-187	K	8.4	ppm	EH	23-MAR-01	180	6010
			MG	16.	ppm	EH	23-MAR-01	180	6010
			NA	155.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	1.2	ppm	JN	20-MAR-01	28	353.2
			PB	<0.003	ppm	BD	26-MAR-01	180	6020
			PH	8.4	pH	DC	01-MAR-01	180	150.1
			SE	<0.005	ppm	BD	26-MAR-01	180	6020
			SO4=	236.	ppm	EH	23-MAR-01	28	9036
			TDS	824.	ppm	BD	28-FEB-01	7	160.1
			TSS	93.	ppm	BD	27-FEB-01	160.2	
			ZN	0.041	ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	73.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	160.	ppm	JN	22-MAR-01	28	325.2
			CO3	4.0	ppm	CaCO3	01-MAR-01	310.1	
			COND.	1333.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	180	6010
			F-	0.72	ppm	EH	14-MAR-01	28	340.2
L010253-010	23-FEB-01	EPRI-0102-241	FE	1.9	ppm	EH	23-MAR-01	180	6010
			HCO3	192.	ppm	DC	01-MAR-01	14	310.1
			K	8.4	ppm	CaCO3	23-MAR-01	180	6010
			MG	16.	ppm	EH	23-MAR-01	180	6010
			NA	155.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	1.2	ppm	JN	20-MAR-01	28	353.2
			PB	0.003	ppm	BD	26-MAR-01	180	6020
			PH	8.4	pH	DC	01-MAR-01	180	150.1
			SE	<0.005	ppm	BD	26-MAR-01	180	6020
			SO4=	245.	ppm	EH	23-MAR-01	28	9036
			TDS	837.	ppm	BD	28-FEB-01	7	160.1
			TSS	94.	ppm	BD	27-FEB-01	160.2	
			ZN	0.035	ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	<1.0	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	<1.0	ppm	JN	22-MAR-01	28	325.2
L010253-011	23-FEB-01	EPRI-0102-242	AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	<1.0	ppm	EH	23-MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010253-011	23-FEB-01	EPRI-0102-242	CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1	
			COND.	<5.0	umhos/cm2	BD	13-MAR-01	180	6010
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	28	340.2
			F-	<0.050	ppm	EH	15-MAR-01	180	6010
			FE	<0.10	ppm	EH	23-MAR-01	14	310.1
			HCO3	<1.0	ppm CaCO3	DC	01-MAR-01	180	6010
			K	<2.0	ppm	EH	23-MAR-01	180	6010
			MG	<1.0	ppm	EH	23-MAR-01	180	6010
			NA	<2.0	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	20-MAR-01	28	353.2
			PH	5.5	ppm	BD	26-MAR-01	180	6020
			SE	<0.005	ppm	DC	01-MAR-01	150.1	
			SO4=	<2.0	ppm	BD	26-MAR-01	180	6020
			TDS	<10.	ppm	EH	23-MAR-01	28	9036
			TSS	<1.0	ppm	BD	28-FEB-01	7	160.1
			ZN	0.038	ppm	EH	27-FEB-01	160.2	
					ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	26-MAR-01	180	6020
			CA	110.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	26-MAR-01	180	6020
			CL-	806.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1	
			COND.	4300.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	6010	
			F-	2.6	ppm	EH	15-MAR-01	28	340.2
			FE	0.11	ppm	EH	23-MAR-01	180	6010
			HCO3	1180.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	23.	ppm	EH	23-MAR-01	180	6010
			MG	29.	ppm	EH	23-MAR-01	180	6010
			NA	756.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.36	ppm	JN	20-MAR-01	28	353.2
			PH	0.010	ppm	BD	26-MAR-01	180	6020
			SE	7.9	ppm	DC	01-MAR-01	150.1	
			SO4=	<0.005	ppm	BD	26-MAR-01	180	6020
			TDS	268.	ppm	EH	23-MAR-01	28	9036
				2740.	ppm	BD	28-FEB-01	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L010253-012	26-FEB-01	EPRI-0102-112	TSS	42.	ppm	BD	27-FEB-01	160.2
			ZN	<0.020	ppm	EH	23-MAR-01	6010
			AS	4.8	ppm	EH	23-MAR-01	180
			CA	80.	ppm	EH	23-MAR-01	180
			CD	<0.005	ppm	BD	23-MAR-01	180
			CL-	961.	ppm	JN	27-MAR-01	6020
			CO3	<1.0	ppm	DC	22-MAR-01	28
			COND.	5680.	ppm CaCO3	DC	01-MAR-01	310.1
			CR	<0.010	unthos/cm2	BD	13-MAR-01	28
			CU	<0.025	ppm	EH	23-MAR-01	180
			F-	1.9	ppm	EH	23-MAR-01	6010
			FE	1.1	ppm	EH	15-MAR-01	28
			HCO3	1470.	ppm	EH	23-MAR-01	340.2
			K	154.	ppm CaCO3	DC	23-MAR-01	180
			MG	22.	ppm	EH	01-MAR-01	14
			NA	895.	ppm	EH	23-MAR-01	310.1
			NO2/NO3	0.13	ppm	EH	23-MAR-01	180
			PB	0.009	ppm	JN	23-MAR-01	6010
			PH	7.7	ppm	BD	20-MAR-01	28
			SE	0.088	ppm	DC	27-MAR-01	353.2
			SO4=	144.	ppm	BD	01-MAR-01	180
			TDS	3395.	ppm	EH	27-MAR-01	6020
			TSS	727.	ppm	BD	01-MAR-01	150.1
			ZN	0.064	ppm	BD	23-MAR-01	6010
					ppm	EH	28-FEB-01	7
					ppm	BD	23-MAR-01	160.1
					ppm	EH	23-MAR-01	160.2
					ppm	EH	23-MAR-01	6010
			AS	0.92	ppm	EH	23-MAR-01	180
			CA	204.	ppm	EH	23-MAR-01	6010
			CD	<0.005	ppm	BD	23-MAR-01	180
			CL-	552.	ppm	BD	27-MAR-01	6020
			CO3	<1.0	ppm	JN	22-MAR-01	28
			COND.	5380.	ppm CaCO3	DC	01-MAR-01	325.2
			CR	<0.010	unthos/cm2	BD	13-MAR-01	310.1
			CU	<0.025	ppm	BD	23-MAR-01	120.1
			F-	0.88	ppm	EH	23-MAR-01	6010
			FE	0.92	ppm	EH	15-MAR-01	28
			HCO3	1000.	ppm	EH	23-MAR-01	340.2
			K	12.	ppm CaCO3	DC	23-MAR-01	180
			MG	90.	ppm	DC	01-MAR-01	6010
					ppm	EH	23-MAR-01	14
					ppm	EH	23-MAR-01	310.1
					ppm	EH	23-MAR-01	6010
					ppm	EH	23-MAR-01	180
					ppm	EH	23-MAR-01	6010
L010253-014	26-FEB-01	EPRI-0102-104						

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L010253-014	26-FEB-01	EPRI-0102-104	NA	838.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	9.1	ppm	JN	20-MAR-01	28	353.2
			PB	0.015	ppm	BD	27-MAR-01	180	6020
			PH	7.8	PH	DC	01-MAR-01	180	150.1
			SE	0.10	ppm	BD	27-MAR-01	180	6020
			SO4=	1574.	ppm	EH	23-MAR-01	28	9036
			TDS	4054.	ppm	BD	28-FEB-01	7	160.1
			TSS	55.	ppm	BD	27-FEB-01	160.2	
			ZN	0.032	ppm	EH	23-MAR-01	180	6010
			AS	0.62	ppm	EH	23-MAR-01	180	6010
			CA	224.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	1647.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1	
			COND.	7780.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01	28	340.2
L010253-015	26-FEB-01	EPRI-0102-117	F-	2.1	ppm	EH	15-MAR-01	28	6010
			FE	0.40	ppm	EH	23-MAR-01	180	6010
			HCO3	620.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	34.	ppm	EH	23-MAR-01	180	6010
			MG	94.	ppm	EH	23-MAR-01	180	6010
			NA	1108.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.13	ppm	JN	23-MAR-01	28	353.2
			PB	0.004	ppm	BD	20-MAR-01	28	6020
			PH	7.5	PH	DC	01-MAR-01	180	150.1
			SE	0.028	ppm	BD	27-MAR-01	180	6020
			SO4=	1265.	ppm	EH	23-MAR-01	28	9036
			TDS	5116.	ppm	BD	28-FEB-01	7	160.1
			TSS	31.	ppm	BD	27-FEB-01	160.2	
			ZN	0.032	ppm	EH	23-MAR-01	180	6010
			AS	0.067	ppm	BD	27-MAR-01	180	6020
			CA	34.	ppm	EH	23-MAR-01	180	6010
L010253-016	26-FEB-01	EPRI-0102-109	CD	0.011	ppm	BD	27-MAR-01	180	6020
			CL-	605.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1	
			COND.	5080.	umhos/cm2	BD	13-MAR-01	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010253-016	26-FEB-01	EPRI-0102-109	CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	0.076	ppm	EH	23-MAR-01		6010
			F-	6.4	ppm	EH	15-MAR-01	28	340.2
			FE	4.9	ppm	EH	23-MAR-01	180	6010
			HCO3	1490.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	248.	ppm	EH	23-MAR-01	180	6010
			MG	32.	ppm	EH	23-MAR-01	180	6010
			NA	739.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.39	ppm	JN	20-MAR-01	28	353.2
			PB	0.029	ppm	BD	27-MAR-01	180	6020
			PH	7.7	pH	DC	01-MAR-01		150.1
			SE	0.012	ppm	BD	27-MAR-01	180	6020
			SO4=	231.	ppm	EH	23-MAR-01	28	9036
			TDS	2874.	ppm	BD	28-FEB-01	7	160.1
			TSS	348.	ppm	BD	27-FEB-01		160.2
			ZN	0.91	ppm	EH	23-MAR-01	180	6010
L010253-017	26-FEB-01	EPRI-0102-243	AS	0.061	ppm	BD	27-MAR-01	180	6020
			CA	33.	ppm	EH	23-MAR-01	180	6010
			CD	0.009	ppm	BD	27-MAR-01	180	6020
			CL-	759.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01		310.1
			COND.	5020.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	0.067	ppm	EH	23-MAR-01		6010
			F-	6.5	ppm	EH	15-MAR-01	28	340.2
			FE	4.5	ppm	EH	23-MAR-01	180	6010
			HCO3	1494.	ppm CaCO3	DC	01-MAR-01	14	310.1
			K	248.	ppm	EH	23-MAR-01	180	6010
			MG	32.	ppm	EH	23-MAR-01	180	6010
			NA	756.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.93	ppm	JN	20-MAR-01	28	353.2
			PB	0.023	ppm	BD	27-MAR-01	180	6020
			PH	7.7	pH	DC	01-MAR-01		150.1
			SE	0.012	ppm	BD	27-MAR-01	180	6020
			SO4=	269.	ppm	EH	23-MAR-01	28	9036
			TDS	2958.	ppm	BD	28-FEB-01	7	160.1
			TSS	378.	ppm	BD	27-FEB-01		160.2
			ZN	0.79	ppm	EH	23-MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010253

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L010253-018	26-FEB-01	EPRI-0102-244	AS	<0.005	ppm	BD	27-MAR-01	180
			CA	<1.0	ppm	EH	23-MAR-01	180
			CD	<0.005	ppm	BD	27-MAR-01	180
			CL-	<1.0	ppm	JN	22-MAR-01	28
			CO3	<1.0	ppm	DC	01-MAR-01	310.1
			COND.	<5.0	umhos/cm2	BD	13-MAR-01	28
			CR	<0.010	ppm	EH	23-MAR-01	180
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	<0.050	ppm	EH	15-MAR-01	28
			FE	<0.10	ppm	EH	23-MAR-01	180
			HCO3	<1.0	ppm	DC	01-MAR-01	14
			K	<2.0	ppm	EH	23-MAR-01	180
			MG	<1.0	ppm	EH	23-MAR-01	180
			NA	<2.0	ppm	EH	23-MAR-01	180
			NO2/NO3	<0.10	ppm	JN	20-MAR-01	28
			PB	<0.003	ppm	BD	27-MAR-01	180
			PH	5.3	pH	DC	01-MAR-01	150.1
			SE	<0.005	ppm	BD	27-MAR-01	180
			SO4=	<2.0	ppm	EH	23-MAR-01	28
			TDS	<10.	ppm	BD	28-FEB-01	7
			TSS	<1.0	ppm	BD	27-FEB-01	160.1
			ZN	0.032	ppm	EH	23-MAR-01	180

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Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010227

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010227-1		Matrix Spike	AS	SR>4XSA	%Recovery	BD	26-MAR-01	6020	
			CD	B3	%Recovery	BD	26-MAR-01	6020	
			CL-	106	%Recovery	JN	21-MAR-01	325.2	
			CR	90	%Recovery	EH	23-MAR-01	6010	
			CU	98	%Recovery	EH	23-MAR-01	6010	
			F-	101	%Recovery	EH	14-MAR-01	340.2	
			FE	88	%Recovery	EH	23-MAR-01	6010	
			NO2/NO3	101	%Recovery	JN	20-MAR-01	353.2	
			PB	86	%Recovery	BD	26-MAR-01	6020	
			SE	103	%Recovery	BD	26-MAR-01	6020	
			SO4=	92	%Recovery	EH	23-MAR-01	9036	
			ZN	87	%Recovery	EH	23-MAR-01	6010	
			AS	<0.005	ppm	BD	26-MAR-01	6020	
			CA	<1.0	ppm	EH	23-MAR-01	6010	
			CD	<0.005	ppm	BD	26-MAR-01	6020	
			CL-	<1.0	ppm	JN	21-MAR-01	325.2	
			CO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1	
			COND.	<5.0	umhos/cm2	BD	13-MAR-01	120.1	
			CR	<0.010	ppm	EH	23-MAR-01	6010	
			CU	<0.025	ppm	EH	23-MAR-01	6010	
WG010227-2		Prep Blank	F-	<0.050	ppm	EH	14-MAR-01	340.2	
			FE	<0.10	ppm	EH	23-MAR-01	6010	
			HCO3	<1.0	ppm CaCO3	DC	01-MAR-01	310.1	
			K	<2.0	ppm	EH	23-MAR-01	6010	
			MG	<1.0	ppm	EH	23-MAR-01	6010	
			NA	<2.0	ppm	EH	23-MAR-01	6010	
			NO2/NO3	<0.10	ppm	JN	20-MAR-01	353.2	
			PB	<0.003	ppm	BD	26-MAR-01	6020	
			SE	<0.005	ppm	BD	26-MAR-01	6020	
			SO4=	<2.0	ppm	EH	23-MAR-01	9036	
			TDS	<10.	ppm	BD	28-FEB-01	160.1	
			TSS	<1.0	ppm	BD	27-FEB-01	160.2	
			ZN	<0.020	ppm	EH	23-MAR-01	6010	
			AS	106	%Recovery	BD	26-MAR-01	6020	
			CA	85	%Recovery	EH	23-MAR-01	6010	
			CD	103	%Recovery	BD	26-MAR-01	6020	
			CL-	106	%Recovery	JN	21-MAR-01	325.2	
			AS						
			CA						
			CD						
			CL-						
WG010227-3		Lab Control Sample	AS						
			CA						
			CD						
			CL-						

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010227

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								DAYS	METHOD
WG010227-3		Lab Control Sample	COND.	98	% Recovery	BD	13-MAR-01	120.1	
			CR	87	% Recovery	EH	23-MAR-01	6010	
			CU	91	% Recovery	EH	23-MAR-01	6010	
			F-	97	% Recovery	EH	14-MAR-01	340.2	
			FE	87	% Recovery	EH	23-MAR-01	6010	
			HCO3	98	% Recovery	DC	01-MAR-01	310.1	
			K	90	% Recovery	EH	23-MAR-01	6010	
			MG	85	% Recovery	EH	23-MAR-01	6010	
			NA	92	% Recovery	EH	23-MAR-01	6010	
			NO2/NO3	103	% Recovery	JN	20-MAR-01	353.2	
			PB	104	% Recovery	BD	26-MAR-01	6020	
			SE	109	% Recovery	BD	26-MAR-01	6020	
			SO4=	104	% Recovery	EH	23-MAR-01	9036	
			TDS	101	% Recovery	BD	28-FEB-01	160.1	
			TSS	97	% Recovery	BD	27-FEB-01	160.2	
			ZN	83	% Recovery	EH	23-MAR-01	6010	
			CL-	<1	% RPD	JN	21-MAR-01	325.2	
			CO3	<1	% RPD	DC	01-MAR-01	310.1	
			F-	1.4	% RPD	EH	14-MAR-01	340.2	
			HCO3	<1	% RPD	DC	01-MAR-01	310.1	
WG010227-4		Duplicate	NO2/NO3	<1	% RPD	JN	20-MAR-01	353.2	
			SO4=	9.1	% RPD	EH	23-MAR-01	9036	
			TDS	<1	% RPD	BD	28-FEB-01	160.1	
			TSS	2.4	% RPD	BD	27-FEB-01	160.2	
			AS	3.8	% RPD	BD	26-MAR-01	6020	
			CA	13	% RPD	EH	23-MAR-01	6010	
			CD	3.1	% RPD	BD	26-MAR-01	6020	
			COND.	<1	% RPD	BD	13-MAR-01	120.1	
			CR	15	% RPD	EH	23-MAR-01	6010	
			CU	14	% RPD	EH	23-MAR-01	6010	
			FE	14	% RPD	EH	23-MAR-01	6010	
			K	17	% RPD	EH	23-MAR-01	6010	
			MG	13	% RPD	EH	23-MAR-01	6010	
			NA	7.7	% RPD	EH	23-MAR-01	6010	
			PB	4.4	% RPD	BD	26-MAR-01	6020	
			SE	4.5	% RPD	BD	26-MAR-01	6020	
			ZN	12	% RPD	EH	23-MAR-01	6010	
WG010227-5		Matrix Spike Duplicate							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010227

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOUND
WG010227-6		Reporting Limit	AS	0.005	ppm			6020
			CA	1.0	ppm			6010
			CD	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			6010
			CU	0.025	ppm			6010
			F-	0.050	ppm			340.2
			FE	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	0.10	ppm			353.2
			PB	0.003	ppm			6020
			SE	0.005	ppm			6020
			SO4=	2.0	ppm			9036
			TDS	10.	ppm			160.1
			TSS	1.0	ppm			160.2
			ZN	0.020	ppm			6010
WG010227-7		Matrix Spike	AS	93	%Recovery	EH	23-MAR-01	6010
WG010227-8		Prep Blank	AS	<0.020	ppm	EH	23-MAR-01	6010
WG010227-9		Lab Control Sample	AS	85	%Recovery	EH	23-MAR-01	6010
WG010227-11		Matrix Spike Duplicate	AS	13	% RPD	EH	23-MAR-01	6010

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				
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
2/26/02	910				EPRI-0102-126	X	X			X				
2/26/02	915				EPRI-0102-127	X	X			X				
2/26/02	1015				EPRI-0102-128	X	X			X				
2/26/02	1030				EPRI-0102-129	X	X			X				
2/26/02	1045				EPRI-0102-130	X	X			X				
2/26/02	1100				EPRI-0102-131	X	X			X				
2/26/02	1140				EPRI-0102-132	X	X			X				
2/26/02	1130				EPRI-0102-133	X	X			X				
2/26/02	1145				EPRI-0102-134	X	X			X				
2/26/02	1155				EPRI-0102-135	X	X			X				
2/26/02	1230				EPRI-0102-136	X	X			X				
2/26/02	1330				EPRI-0102-137	X	X			X				
2/26/02	1400				EPRI-0102-138	X	X			X				
2/26/02	1420				EPRI-0102-139	X	X			X				
2/26/02	1450				EPRI-0102-140	X	X			X				
2/26/02	1500				EPRI-0102-141	X	X			X				
Relinquished (Signature)			Date/Time		Received by: (Signature)	Date/Time		Lab		P.O. #		Shipped via: Bus Fed Ex, UPS		
Relinquished (Signature)			Date/Time		Received by: (Signature)	Date/Time		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 checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other						
					Split Samples:		<input type="checkbox"/> Accepted <input type="checkbox"/> Declined							

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Age Group	Percentage
18-24	10%
25-34	20%
35-44	25%
45-54	20%
55-64	15%
65-74	10%
75-84	5%
85+	5%

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS					
DATE	TIME	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
2/26/01	1045		APR 1-0102-109	X				X			
2/26/01	1050		APR 1-0102-243	X				X			
2/26/01	1545		APR 1-0102-244	X				X			
/											
PROJ. NO. 124662 PROJECT NAME ASARCO - EL PASO, TX SAMPLERS: (Signature) <i>Douglas M. J...</i>				RECEIVED BY: (Signature) _____ DATE/TIME 1/26/01 1600		LAB TSC, SEC, UT REMARKS		P.O. # _____ SHIPPED VIA: Bus, Fed Ex, UPS Other _____ AIR BILL # _____		REMARKS	
RECEIVED FOR LABORATORY BY: (Signature) _____ DATE/TIME _____				RECEIVED 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 <input type="checkbox"/> Other _____		SPLIT SAMPLES: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		RETURN RESULTS & ELECTRONIC COPY TO:	

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010267

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE'S METHOD
L010267-002	28-FEB-01	EPRI-0102-189	AS	0.006	ppm	BD	27-MAR-01	180 6020
			CA	72.	ppm	EH	23-MAR-01	180 6010
			CD	<0.005	ppm	BD	27-MAR-01	180 6020
			CL-	173.	ppm	JN	22-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01	310.1
			COND.	1375.	umhos/cm2	BD	13-MAR-01	28 120.1
			CR	<0.010	ppm	EH	23-MAR-01	180 6010
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	0.75	ppm	EH	16-MAR-01	28 340.2
			FE	3.0	ppm	EH	23-MAR-01	180 6010
			HCO3	170.	ppm CaCO3	DC	09-MAR-01	14 310.1
			K	9.4	ppm	EH	23-MAR-01	180 6010
			MG	16.	ppm	EH	23-MAR-01	180 6010
			NA	195.	ppm	EH	23-MAR-01	180 6010
			NO2/NO3	3.4	ppm	JN	20-MAR-01	28 353.2
			PB	<0.003	ppm	BD	27-MAR-01	180 6020
			PH	7.9	PH	DC	09-MAR-01	150.1
			SE	<0.005	ppm	BD	27-MAR-01	180 6020
			SO4=	276.	ppm	JN	26-MAR-01	28 9036
			TDS	882.	ppm	BD	05-MAR-01	7 160.1
			TSS	152.	ppm	BD	05-MAR-01	160.2
			ZN	0.029	ppm	EH	23-MAR-01	180 6010
L010267-003	28-FEB-01	EPRI-0102-186	AS	0.008	ppm	BD	27-MAR-01	180 6020
			CA	63.	ppm	EH	23-MAR-01	180 6010
			CD	<0.005	ppm	BD	27-MAR-01	180 6020
			CL-	141.	ppm	JN	22-MAR-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01	310.1
			COND.	1226.	umhos/cm2	BD	13-MAR-01	28 120.1
			CR	<0.010	ppm	EH	23-MAR-01	180 6010
			CU	<0.025	ppm	EH	23-MAR-01	6010
			F-	0.76	ppm	EH	16-MAR-01	28 340.2
			FE	2.2	ppm	EH	23-MAR-01	180 6010
			HCO3	180.	ppm CaCO3	DC	09-MAR-01	14 310.1
			K	7.3	ppm	EH	23-MAR-01	180 6010
			MG	16.	ppm	EH	23-MAR-01	180 6010
			NA	132.	ppm	EH	23-MAR-01	180 6010
			NO2/NO3	0.67	ppm	JN	20-MAR-01	28 353.2
			PB	<0.003	ppm	BD	27-MAR-01	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010267

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010267-003	28-FEB-01	EPRI-0102-186	PH	7.9	PH	DC	09-MAR-01	180	150.1
			SE	<0.005	ppm	BD	27-MAR-01	180	6020
			SO4=	243.	ppm	JN	26-MAR-01	28	9036
			TDS	777.	ppm	BD	05-MAR-01	7	160.1
			TSS	95.	ppm	BD	05-MAR-01		160.2
			ZN	<0.020	ppm	EH	23-MAR-01	180	6010
			AS	0.008	ppm	BD	27-MAR-01	180	6020
			CA	62.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	140.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01		310.1
			COND.	1201.	umhos/cm2	BD	13-MAR-01	28	120.1
L010267-004	28-FEB-01	EPRI-0102-193	CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.75	ppm	EH	16-MAR-01	28	340.2
			FE	2.0	ppm	EH	23-MAR-01	180	6010
			HCO3	170.	ppm CaCO3	DC	09-MAR-01	14	310.1
			K	7.4	ppm	EH	23-MAR-01	180	6010
			MG	15.	ppm	EH	23-MAR-01	180	6010
			NA	129.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.53	ppm	JN	20-MAR-01	28	353.2
			PH	<0.003	ppm	BD	27-MAR-01	180	6020
			SE	8.0	PH	DC	09-MAR-01		150.1
			SO4=	<0.005	ppm	BD	27-MAR-01	180	6020
L010267-005	28-FEB-01	EPRI-0102-247	TDS	256.	ppm	JN	26-MAR-01	28	9036
			TSS	753.	ppm	BD	05-MAR-01	7	160.1
			ZN	90.	ppm	BD	05-MAR-01		160.2
				<0.020	ppm	EH	23-MAR-01	180	6010
			AS	0.008	ppm	BD	27-MAR-01	180	6020
			CA	63.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	142.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01		310.1
			COND.	1201.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.71	ppm	EH	16-MAR-01	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010267

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010267-005	28-FEB-01	EPRI-0102-247	FE	2.0	ppm	EH	23-MAR-01	180	6010
			HCO3	181.	ppm	DC	09-MAR-01	14	310.1
			K	7.4	ppm	EH	23-MAR-01	180	6010
			MG	15.	ppm	EH	23-MAR-01	180	6010
			NA	125.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.69	ppm	JN	20-MAR-01	28	353.2
			PB	<0.003	ppm	BD	27-MAR-01	180	6020
			PH	8.0	pH	DC	09-MAR-01	180	150.1
			SE	<0.005	ppm	BD	27-MAR-01	180	6020
			SO4=	217.	ppm	JN	26-MAR-01	28	9036
			TDS	735.	ppm	BD	05-MAR-01	7	160.1
			TSS	90.	ppm	BD	05-MAR-01	160.2	
			ZN	<0.020	ppm	EH	23-MAR-01	180	6010
			AS	0.007	ppm	BD	27-MAR-01	180	6020
			CA	67.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	127.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm	DC	09-MAR-01	28	310.1
			COND.	1180.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
L010267-006	28-FEB-01	EPRI-0102-192	CU	<0.025	ppm	EH	23-MAR-01	180	6010
			F-	0.74	ppm	EH	16-MAR-01	28	340.2
			FE	2.5	ppm	EH	23-MAR-01	180	6010
			HCO3	180.	ppm	DC	09-MAR-01	14	310.1
			K	8.1	ppm	EH	23-MAR-01	180	6010
			MG	16.	ppm	EH	23-MAR-01	180	6010
			NA	134.	ppm	JN	23-MAR-01	180	6010
			NO2/NO3	0.57	ppm	JN	20-MAR-01	28	353.2
			PB	0.003	ppm	BD	27-MAR-01	180	6020
			PH	8.1	pH	DC	09-MAR-01	180	150.1
			SE	<0.005	ppm	BD	27-MAR-01	180	6020
			SO4=	237.	ppm	JN	26-MAR-01	28	9036
			TDS	744.	ppm	BD	05-MAR-01	7	160.1
			TSS	95.	ppm	BD	05-MAR-01	160.2	
			ZN	<0.020	ppm	EH	23-MAR-01	180	6010
			AS	0.007	ppm	BD	27-MAR-01	180	6020
			CA	72.	ppm	EH	23-MAR-01	180	6010
L010267-007	28-FEB-01	EPRI-0102-184	AS	0.007	ppm	BD	27-MAR-01	180	6020
			CA	72.	ppm	EH	23-MAR-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010267

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010267-007	28-FEB-01	EPRI-0102-184	CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	136.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01		310.1
			COND.	1179.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.72	ppm	EH	16-MAR-01	28	340.2
			FE	2.8	ppm	EH	23-MAR-01	180	6010
			HCO3	190.	ppm CaCO3	DC	09-MAR-01	14	310.1
			K	8.5	ppm	EH	23-MAR-01	180	6010
			MG	17.	ppm	EH	23-MAR-01	180	6010
			NA	142.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.59	ppm	EH	23-MAR-01	180	6010
			PB	0.003	ppm	JN	20-MAR-01	28	353.2
			PH	8.0	pH	BD	27-MAR-01	180	6020
			SE	<0.005	ppm	DC	09-MAR-01		150.1
			SO4=	244.	ppm	BD	27-MAR-01	180	6020
			TDS	739.	ppm	JN	26-MAR-01	28	9036
			TSS	116.	ppm	BD	05-MAR-01	7	160.1
			ZN	0.023	ppm	BD	05-MAR-01		160.2
					ppm	EH	23-MAR-01	180	6010
			AS	0.005	ppm	BD	27-MAR-01	180	6020
			CA	70.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL-	130.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01		310.1
			COND.	1141.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.72	ppm	EH	16-MAR-01	28	340.2
			FE	2.9	ppm	EH	23-MAR-01	180	6010
L010267-008	28-FEB-01	EPRI-0102-191	HCO3	193.	ppm CaCO3	DC	09-MAR-01	14	310.1
			X	8.2	ppm	EH	23-MAR-01	180	6010
			MG	16.	ppm	EH	23-MAR-01	180	6010
			NA	129.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.56	ppm	JN	23-MAR-01	180	6010
			PB	0.004	ppm	JN	20-MAR-01	28	353.2
			PH	8.1	pH	BD	27-MAR-01	180	6020
			SE	<0.005	ppm	DC	09-MAR-01		150.1
					ppm	BD	27-MAR-01	180	6020
					ppm	BD	27-MAR-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010267

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010267-008	28-FEB-01	EPRI-0102-191	SO4=	230.	ppm	JN	26-MAR-01	28	9036
			TDS	739.	ppm	BD	05-MAR-01	7	160.1
			TSS	131.	ppm	BD	05-MAR-01		160.2
			ZN	0.023	ppm	EH	23-MAR-01	180	6010
			AS	0.005	ppm	BD	27-MAR-01	180	6020
			CA	64.	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL	117.	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01		310.1
			COND.	1074.	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	0.71	ppm	EH	16-MAR-01	28	340.2
			FE	2.9	ppm	EH	23-MAR-01	180	6010
			HCO3	191.	ppm CaCO3	DC	09-MAR-01	14	310.1
			K	7.3	ppm	EH	23-MAR-01	180	6010
			MG	14.	ppm	EH	23-MAR-01	180	6010
			NA	107.	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	0.49	ppm	JN	20-MAR-01	28	353.2
L010267-009	28-FEB-01	EPRI-0102-190	PH	0.003	ppm	BD	27-MAR-01	180	6020
			PH	8.2	PH	DC	09-MAR-01		150.1
			SE	<0.005	ppm	BD	27-MAR-01	180	6020
			SO4=	201.	ppm	JN	26-MAR-01	28	9036
			TDS	675.	ppm	BD	05-MAR-01	7	160.1
			TSS	154.	ppm	BD	05-MAR-01		160.2
			ZN	0.023	ppm	EH	23-MAR-01	180	6010
			AS	<0.005	ppm	BD	27-MAR-01	180	6020
			CA	<1.0	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL	<1.0	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01		310.1
			COND.	<5.0	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	<0.050	ppm	EH	16-MAR-01	28	340.2
			FE	<0.10	ppm	EH	23-MAR-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	09-MAR-01	14	310.1
L010267-010	28-FEB-01	EPRI-0102-248	AS	<0.005	ppm	BD	27-MAR-01	180	6020
			CA	<1.0	ppm	EH	23-MAR-01	180	6010
			CD	<0.005	ppm	BD	27-MAR-01	180	6020
			CL	<1.0	ppm	JN	22-MAR-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01		310.1
			COND.	<5.0	umhos/cm2	BD	13-MAR-01	28	120.1
			CR	<0.010	ppm	EH	23-MAR-01	180	6010
			CU	<0.025	ppm	EH	23-MAR-01		6010
			F-	<0.050	ppm	EH	16-MAR-01	28	340.2
			FE	<0.10	ppm	EH	23-MAR-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	09-MAR-01	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

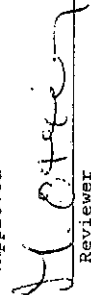
Water and Solid Waste (Project 3220)

Batch No: L010267

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010267-010	28-FEB-01	EPRI-0102-248	K	<2.0	ppm	EH	23-MAR-01	180	6010
			MG	<1.0	ppm	EH	23-MAR-01	180	6010
			NA	<2.0	ppm	EH	23-MAR-01	180	6010
			NO2/NO3	<0.10	ppm	JN	20-MAR-01	28	353.2
			PB	<0.003	ppm	BD	27-MAR-01	180	6020
			PH	5.3	pH	DC	09-MAR-01	150.1	
			SE	<0.005	ppm	BD	27-MAR-01	180	6020
			SO4=	<2.0	ppm	JN	26-MAR-01	28	9036
			TDS	<10.	ppm	BD	05-MAR-01	7	160.1
			TSS	<1.0	ppm	BD	05-MAR-01		160.2
			ZN	<0.020	ppm	EH	23-MAR-01	180	6010

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: WG010228

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
WG010228-1		Matrix Spike	AS	99	%Recovery	BD	27-MAR-01	6020
			CD	94	%Recovery	BD	27-MAR-01	6020
			CL-	105	%Recovery	JN	22-MAR-01	325.2
			CR	90	%Recovery	EH	23-MAR-01	6010
			CU	97	%Recovery	EH	23-MAR-01	6010
			F-	102	%Recovery	EH	16-MAR-01	340.2
			FE	95	%Recovery	EH	23-MAR-01	6010
			NO2/NO3	77	%Recovery	JN	20-MAR-01	353.2
			PB	105	%Recovery	BD	27-MAR-01	6020
			SE	94	%Recovery	BD	27-MAR-01	6020
			SO4=	101	%Recovery	JN	26-MAR-01	9036
			ZN	85	%Recovery	EH	23-MAR-01	6010
			AS	<0.005	ppm	BD	27-MAR-01	6020
			CA	<1.0	ppm	EH	23-MAR-01	6010
			CD	<0.005	ppm	BD	27-MAR-01	6020
			CL-	<1.0	ppm	JN	22-MAR-01	325.2
			CO3	<1.0	ppm CaCO3	DC	09-MAR-01	310.1
			COND.	<5.0	umhos/cm2	BD	13-MAR-01	120.1
			CR	<0.010	ppm	EH	23-MAR-01	6010
			CU	<0.025	ppm	EH	23-MAR-01	6010
WG010228-2		Prep Blank	F-	<0.050	ppm	EH	16-MAR-01	340.2
			FE	<0.10	ppm	EH	23-MAR-01	6010
			HCO3	<1.0	ppm CaCO3	DC	09-MAR-01	310.1
			K	<2.0	ppm	EH	23-MAR-01	6010
			MG	<1.0	ppm	EH	23-MAR-01	6010
			NA	<2.0	ppm	EH	23-MAR-01	6010
			NO2/NO3	<0.10	ppm	JN	20-MAR-01	353.2
			PB	<0.003	ppm	BD	27-MAR-01	6020
			SE	<0.005	ppm	BD	27-MAR-01	6020
			SO4=	<2.0	ppm	JN	26-MAR-01	9036
			TDS	<10	ppm	BD	05-MAR-01	160.1
			TSS	<1.0	ppm	BD	05-MAR-01	160.2
			ZN	<0.020	ppm	EH	23-MAR-01	6010
			AS	105	%Recovery	BD	27-MAR-01	6020
			CA	95	%Recovery	EH	23-MAR-01	6010
			CD	100	%Recovery	BD	27-MAR-01	6020
			CL-	105	%Recovery	JN	22-MAR-01	325.2
			AS	105	%Recovery	BD	27-MAR-01	6020
			CA	95	%Recovery	EH	23-MAR-01	6010
			CD	100	%Recovery	BD	27-MAR-01	6020
			CL-	105	%Recovery	JN	22-MAR-01	325.2

Lab Control Sample

WG010228-3

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010228

LAB. NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010228-3		Lab Control Sample	COND.	98	\$ Recovery	BD	13-MAR-01	120.1	
			CR	98	\$ Recovery	EH	23-MAR-01	6010	
			CU	105	\$ Recovery	EH	23-MAR-01	6010	
			F-	93	\$ Recovery	EH	16-MAR-01	340.2	
			FE	98	\$ Recovery	EH	23-MAR-01	6010	
			HCO3	95	\$ Recovery	DC	09-MAR-01	310.1	
			K	98	\$ Recovery	EH	23-MAR-01	6010	
			MG	98	\$ Recovery	EH	23-MAR-01	6010	
			NA	101	\$ Recovery	EH	23-MAR-01	6010	
			NO2/NO3	103	\$ Recovery	JN	20-MAR-01	353.2	
			PB	99	\$ Recovery	BD	27-MAR-01	6020	
			SE	104	\$ Recovery	BD	27-MAR-01	6020	
			SO4=	102	\$ Recovery	JN	26-MAR-01	9036	
			TDS	98	\$ Recovery	BD	05-MAR-01	160.1	
			TSS	94	\$ Recovery	BD	05-MAR-01	160.2	
			ZN	90	\$ Recovery	EH	23-MAR-01	6010	
			CL-	13	% RPD	JN	22-MAR-01	325.2	
			CO3	<1	% RPD	DC	09-MAR-01	310.1	
			COND.	<1	% RPD	BD	13-MAR-01	120.1	
			F-	1.6	% RPD	EH	16-MAR-01	340.2	
WG010228-4		Duplicate	HCO3	<1	% RPD	DC	09-MAR-01	310.1	
			NO2/NO3	<1	% RPD	JN	20-MAR-01	353.2	
			SO4=	8.0	% RPD	JN	26-MAR-01	9036	
			TDS	<1	% RPD	BD	05-MAR-01	160.1	
			TSS	<1	% RPD	BD	05-MAR-01	160.2	
			AS	1.1	% RPD	BD	27-MAR-01	6020	
			CA	14	% RPD	EH	23-MAR-01	6010	
			CD	<1	% RPD	BD	27-MAR-01	6020	
			CR	12	% RPD	EH	23-MAR-01	6010	
			CU	4.3	% RPD	EH	23-MAR-01	6010	
			FE	14	% RPD	EH	23-MAR-01	6010	
			K	16	% RPD	EH	23-MAR-01	6010	
			MG	15	% RPD	EH	23-MAR-01	6010	
			NA	12	% RPD	EH	23-MAR-01	6010	
			PB	15	% RPD	BD	27-MAR-01	6020	
			SE	<1	% RPD	BD	27-MAR-01	6020	
			ZN	11	% RPD	EH	23-MAR-01	6010	
WG010228-5		Matrix Spike Duplicate	COND.	98	\$ Recovery	BD	13-MAR-01	120.1	
			CR	98	\$ Recovery	EH	23-MAR-01	6010	
			CU	105	\$ Recovery	EH	23-MAR-01	6010	
			F-	93	\$ Recovery	EH	16-MAR-01	340.2	
			FE	98	\$ Recovery	EH	23-MAR-01	6010	
			HCO3	95	\$ Recovery	DC	09-MAR-01	310.1	
			K	98	\$ Recovery	EH	23-MAR-01	6010	
			MG	98	\$ Recovery	EH	23-MAR-01	6010	
			NA	101	\$ Recovery	EH	23-MAR-01	6010	
			NO2/NO3	103	\$ Recovery	JN	20-MAR-01	353.2	
			PB	99	\$ Recovery	BD	27-MAR-01	6020	
			SE	104	\$ Recovery	BD	27-MAR-01	6020	
			SO4=	102	\$ Recovery	JN	26-MAR-01	9036	
			TDS	98	\$ Recovery	BD	05-MAR-01	160.1	
			TSS	94	\$ Recovery	BD	05-MAR-01	160.2	
			ZN	90	\$ Recovery	EH	23-MAR-01	6010	
			CL-	13	% RPD	JN	22-MAR-01	325.2	
			CO3	<1	% RPD	DC	09-MAR-01	310.1	
			COND.	<1	% RPD	BD	13-MAR-01	120.1	
			F-	1.6	% RPD	EH	16-MAR-01	340.2	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010228

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	
								DAYS	METHOD
WG010228-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6010
			CU	0.025	ppm				6010
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			HCO3	1.0	ppm				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	0.10	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6010

Approved

Reviewer

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85705
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

(520) 544-3150 • FAX (520) 544-3190
(915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS							REMARKS		
DATE	TIME	GRAB	COMP	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
124602	820			APR 1 0102 - 189	X	X			X			
	850			APR 1 0102 - 186	X	X			X			
	910			APR 1 0102 - 193	X	X			X			
	915			APR 1 0102 - 247	X	X			X			
	940			APR 1 0102 - 192	X	X			X			
	1000			APR 1 0102 - 184	X	X			X			
	1010			APR 1 0102 - 191	X	X			X			
	1030			APR 1 0102 - 190	X	X			X			
	1100			APR 1 0102 - 248	X	X			X			
/												
Relinquished (Signature)					Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____			
Relinquished (Signature)					Date/Time	Received by: (Signature)	Remarks					
Relinquished (Signature)					Date/Time	Received for Laboratory by: (Signature)	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 _____					



SECTION F-5

**LAB REPORTS FOR WATER SAMPLES,
SPRING 2001**

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010653

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	
							ANALYZED	DAYS METHOD
L010653-001	07-MAY-01	EPRI-0105-225	AS	0.27	ppm	EH	18-MAY-01	180 6010
			CA	115.	ppm	EH	18-MAY-01	180 6010
			CD	<0.005	ppm	MF	21-MAY-01	180 6020
			CL-	404	ppm	JHN	29-MAY-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	3720.	umhos/cm2	BD	14-MAY-01	28 120.1
			CR	<0.010	ppm	MF	21-MAY-01	180 6020
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	2.2	ppm	EH	14-MAY-01	28 340.2
			FE	0.17	ppm	EH	18-MAY-01	180 6010
			HCO3	320.	ppm CaCO3	DC	18-MAY-01	14 310.1
			K	29.	ppm	EH	18-MAY-01	180 6010
			MG	81.	ppm	EH	18-MAY-01	180 6010
			NA	642.	ppm	EH	18-MAY-01	180 6010
			NO2/NO3	8.5	ppm	JHN	03-JUN-01	28 353.2
			PE	<0.003	ppm	MF	21-MAY-01	180 6020
			PH	8.0	ph	DC	18-MAY-01	150.1
			SE	0.058	ppm	MF	21-MAY-01	180 6020
			SO4=	1350	ppm	JHN	01-JUN-01	28 9036
			TDS	2670.	ppm	AH	14-MAY-01	7 160.1
			TSS	6.2	ppm	MF	14-MAY-01	160.2
			ZN	0.036	ppm	EH	18-MAY-01	180 6010
L010653-002	07-MAY-01	EPRI-0105-226	AS	0.59	ppm	EH	18-MAY-01	180 6010
			CA	89.	ppm	EH	18-MAY-01	180 6010
			CD	<0.005	ppm	MF	21-MAY-01	180 6020
			CL-	380	ppm	JHN	29-MAY-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	3620.	umhos/cm2	BD	14-MAY-01	28 120.1
			CR	<0.010	ppm	MF	21-MAY-01	180 6020
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	1.8	ppm	EH	14-MAY-01	28 340.2
			FE	0.80	ppm	EH	18-MAY-01	180 6010
			HCO3	336.	ppm CaCO3	DC	18-MAY-01	14 310.1
			K	7.9	ppm	EH	18-MAY-01	180 6010
			MG	78.	ppm	EH	18-MAY-01	180 6010
			NA	656.	ppm	EH	18-MAY-01	180 6010
			NO2/NO3	7.9	ppm	JHN	03-JUN-01	28 353.2
			PB	0.010	ppm	MF	21-MAY-01	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010653

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010653-002	07-MAY-01	EPRI-0105-226	PH	8.1	PH	DC	18-MAY-01	150.1	
			SE	0.031	ppm	MF	21-MAY-01	180	6020
			SO4=	1229	ppm	JHN	01-JUN-01	28	9036
			TDS	2559	ppm	AH	14-MAY-01	7	160.1
			TSS	35	ppm	MF	14-MAY-01	160.2	
			ZN	0.046	ppm	EH	18-MAY-01	180	6010
			AS	0.013	ppm	MF	21-MAY-01	180	6020
			CA	436	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	534	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1	
			COND.	10320	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
L010653-003	07-MAY-01	EPRI-0105-227	CU	<0.025	ppm	EH	18-MAY-01	6010	
			F-	0.90	ppm	EH	14-MAY-01	28	340.2
			FE	1.2	ppm	EH	18-MAY-01	180	6010
			HCO3	730	ppm	DC	18-MAY-01	14	310.1
			K	67	ppm	EH	18-MAY-01	180	6010
			MG	297	ppm	EH	18-MAY-01	180	6010
			NA	1980	ppm	EH	13-JUN-01	180	6010
			NO2/NO3	58	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	7.5	PH	DC	18-MAY-01	150.1	
			SE	0.64	ppm	MF	21-MAY-01	180	6020
			SO4=	5134	ppm	JHN	01-JUN-01	28	9036
			TDS	9112	ppm	AH	14-MAY-01	7	160.1
L010653-004	08-MAY-01	EPRI-0105-196	TSS	517	ppm	MF	14-MAY-01	160.2	
			ZN	0.22	ppm	EH	18-MAY-01	180	6010
			AS	0.83	ppm	EH	18-MAY-01	180	6010
			CA	223	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	501	ppm	JHN	29-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1	
			COND.	4760	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01	6010	
			P-	1.5	ppm	EH	14-MAY-01	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010653

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010653-004	08-MAY-01	EPRI-0105-196	FE	0.16	ppm	EH	18-MAY-01	180	6010
			HCO3	283.	ppm	DC	18-MAY-01	14	310.1
			K	17.	ppm	EH	18-MAY-01	180	6010
			MG	81.	ppm	EH	18-MAY-01	180	6010
			NA	807.	ppm	EH	18-MAY-01	180	6010
			NO2/NO3	33	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	7.7	pH	DC	18-MAY-01	150.1	
			SE	0.13	ppm	MF	21-MAY-01	180	6020
			SO4=	1662	ppm	JHN	01-JUN-01	28	9036
			TDS	3606.	ppm	AH	15-MAY-01	7	160.1
			TSS	4.9	ppm	MF	14-MAY-01	160.2	
			ZN	0.079	ppm	EH	18-MAY-01	180	6010
			AS	0.88	ppm	EH	18-MAY-01	180	6010
			CA	230.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	411	ppm	JHN	29-MAY-01	28	325.2
			CO3	<1.0	ppm	CaCO3	DC	18-MAY-01	310.1
			COND.	4840.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
L010653-005	08-MAY-01	EPRI-0105-223	CU	<0.025	ppm	EH	18-MAY-01	6010	
			F-	1.5	ppm	EH	14-MAY-01	28	340.2
			FE	0.14	ppm	EH	18-MAY-01	180	6010
			HCO3	297.	ppm	DC	18-MAY-01	14	310.1
			K	18.	ppm	EH	18-MAY-01	180	6010
			MG	87.	ppm	EH	18-MAY-01	180	6010
			NA	868.	ppm	EH	18-MAY-01	180	6010
			NO2/NO3	35	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	7.6	pH	DC	18-MAY-01	150.1	
			SE	0.13	ppm	MF	21-MAY-01	180	6020
			SO4=	1862	ppm	JHN	01-JUN-01	28	9036
			TDS	3670.	ppm	AH	15-MAY-01	7	160.1
			TSS	3.1	ppm	MF	14-MAY-01	160.2	
			ZN	0.083	ppm	EH	18-MAY-01	180	6010
			AS	1.4	ppm	EH	18-MAY-01	180	6010
			CA	387.	ppm	EH	18-MAY-01	180	6010
L010653-006	08-MAY-01	EPRI-0105-106							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010653

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD
L010653-006	08-MAY-01	EPRI-0105-106	CD	<0.005	ppm	MF	21-MAY-01	180
			CL-	496	ppm	JHN	29-MAY-01	28
			CQ3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	5720.	unhos/cm2	BD	14-MAY-01	28
			CR	<0.010	ppm	MF	21-MAY-01	180
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	1.5	ppm	EH	14-MAY-01	28
			FE	0.14	ppm	EH	14-MAY-01	180
			HCO3	310.	ppm CaCO3	DC	18-MAY-01	14
			K	57.	ppm	EH	18-MAY-01	180
			MG	99.	ppm	EH	18-MAY-01	180
			NA	797.	ppm	EH	18-MAY-01	180
			NO2/NO3	25	ppm	JHN	03-JUN-01	28
			PB	0.004	ppm	MF	21-MAY-01	180
			PH	7.6	pH	DC	18-MAY-01	150.1
			SE	0.32	ppm	MF	21-MAY-01	180
			SO4=	2723	ppm	JHN	01-JUN-01	28
			TDS	4666.	ppm	AH	15-MAY-01	7
			TSS	2.6	ppm	MF	14-MAY-01	160.1
			ZN	0.047	ppm	EH	18-MAY-01	180
								6010
L010653-007	08-MAY-01	EPRI-0105-105	AS	25.	ppm	EH	18-MAY-01	180
			CA	325.	ppm	EH	18-MAY-01	180
			CD	0.54	ppm	MF	21-MAY-01	180
			CL-	856	ppm	JHN	30-MAY-01	28
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	9520.	unhos/cm2	BD	14-MAY-01	28
			CR	<0.010	ppm	MF	21-MAY-01	180
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	1.3	ppm	EH	14-MAY-01	28
			FE	0.27	ppm	EH	18-MAY-01	180
			HCO3	251.	ppm CaCO3	DC	18-MAY-01	14
			K	76.	ppm	EH	18-MAY-01	310.1
			MG	67.	ppm	EH	18-MAY-01	180
			NA	1937.	ppm	EH	18-MAY-01	180
			NO2/NO3	105	ppm	JHN	03-JUN-01	28
			PB	0.006	ppm	MF	21-MAY-01	180
			PH	7.5	pH	DC	18-MAY-01	6020
			SE	4.5	ppm	MF	21-MAY-01	180
								6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010653

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PAID	
L010653-007	08-MAY-01	EPRI-0105-105	SO4=	4132	ppm	JHN	01-JUN-01	28	9036
			TDS	7658.	ppm	AH	15-MAY-01	7	160.1
			TSS	3.2	ppm	MF	14-MAY-01		160.2
			ZN	0.078	ppm	EH	18-MAY-01	180	6010
			AS	4.7	ppm	EH	18-MAY-01	180	6010
			CA	131.	ppm	EH	18-MAY-01	180	6010
			CD	1.6	ppm	MF	21-MAY-01	180	6020
			CL-	650	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	6340.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
L010653-008	08-MAY-01	EPRI-0105-165	F-	1.3	ppm	EH	14-MAY-01	28	340.2
			FE	0.55	ppm	EH	18-MAY-01	180	6010
			HCO3	96.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	49.	ppm	EH	18-MAY-01	180	6010
			MG	47.	ppm	EH	18-MAY-01	180	6010
			NA	1044.	ppm	EH	18-MAY-01	180	6010
			NO2/NO3	81	ppm	JHN	03-JUN-01	28	353.2
			PB	0.005	ppm	MF	21-MAY-01	180	6020
			PH	6.8	pH	DC	18-MAY-01		150.1
			SE	1.7	ppm	MF	21-MAY-01	180	6020
			SO4=	2340	ppm	JHN	01-JUN-01	28	9036
			TDS	4815.	ppm	AH	15-MAY-01	7	160.1
L010653-009	08-MAY-01	EPRI-0105-166	TSS	14.	ppm	MF	14-MAY-01		160.2
			ZN	0.32	ppm	EH	18-MAY-01	180	6010
			AS	0.40	ppm	MF	21-MAY-01	180	6020
			CA	96.	ppm	EH	18-MAY-01	180	6010
			CD	0.11	ppm	MF	21-MAY-01	180	6020
			CL-	207	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	2480.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	1.4	ppm	EH	14-MAY-01	28	340.2
			FE	0.96	ppm	EH	18-MAY-01	180	6010
			HCO3	191.	ppm CaCO3	DC	18-MAY-01	14	310.1

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L010653-009	08-MAY-01	EPRI-0105-166	K	108.	ppm	EH	18-MAY-01	180 6010
			MG	20.	ppm	EH	18-MAY-01	180 6010
			NA	328.	ppm	EH	18-MAY-01	180 6010
			NO2/NO3	9.4	ppm	JHN	03-JUN-01	28 353.2
			PB	0.006	ppm	MF	21-MAY-01	180 6020
			PH	7.3	PH	DC	18-MAY-01	150.1
			SE	5.7	ppm	MF	21-MAY-01	180 6020
			SO4=	812	ppm	JHN	01-JUN-01	28 9036
			TDS	1726.	ppm	AH	15-MAY-01	7 160.1
			TSS	14.	ppm	MF	14-MAY-01	160.2
			ZN	0.11	ppm	EH	18-MAY-01	180 6010
			AS	0.14	ppm	MF	21-MAY-01	180 6020
			CA	287.	ppm	EH	18-MAY-01	180 6010
			CD	0.016	ppm	MF	21-MAY-01	180 6020
			CL-	544	ppm	JHN	30-MAY-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	5840.	umhos/cm2	BD	14-MAY-01	28 120.1
L010653-010	08-MAY-01	EPRI-0105-156	CR	<0.010	ppm	MF	21-MAY-01	180 6020
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	0.51	ppm	EH	14-MAY-01	28 340.2
			FE	5.4	ppm	EH	18-MAY-01	180 6010
			HCO3	333.	ppm	DC	18-MAY-01	14 310.1
			K	16.	ppm	EH	18-MAY-01	180 6010
			MG	145.	ppm	EH	18-MAY-01	180 6010
			NA	996.	ppm	EH	18-MAY-01	180 6010
			NO2/NO3	38.	ppm	JHN	03-JUN-01	28 353.2
			PB	0.004	ppm	MF	21-MAY-01	180 6020
			PH	7.9	PH	DC	18-MAY-01	150.1
			SE	1.2	ppm	MF	21-MAY-01	180 6020
			SO4=	2632	ppm	JHN	01-JUN-01	28 9036
			TDS	4694.	ppm	AH	15-MAY-01	7 160.1
			TSS	235.	ppm	MF	14-MAY-01	160.2
			ZN	0.069	ppm	EH	18-MAY-01	180 6010
L010653-011	08-MAY-01	EPRI-0105-167	AS	0.019	ppm	MF	21-MAY-01	180 6020
			CA	69.	ppm	EH	18-MAY-01	180 6010
			CD	0.007	ppm	MF	21-MAY-01	180 6020
			CL-	185	ppm	JHN	30-MAY-01	28 325.2

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L010653-011	08-MAY-01	EPRI-0105-167	CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	1510.	umhos/cm2	BD	14-MAY-01 28	120.1
			CR	<0.010	ppm	MF	21-MAY-01 180	6020
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	0.53	ppm	EH	14-MAY-01 28	340.2
			FE	0.060	ppm	EH	18-MAY-01 180	6010
			HCO3	108.	ppm CaCO3	DC	18-MAY-01 14	310.1
			K	5.7	ppm	EH	18-MAY-01 180	6010
			MG	22.	ppm	EH	18-MAY-01 180	6010
			NA	219.	ppm	EH	18-MAY-01 180	6010
			NO2/NO3	3.7	ppm	JHN	03-JUN-01 28	353.2
			PB	<0.003	ppm	MF	21-MAY-01 180	6020
			PH	8.3	pH	DC	18-MAY-01	150.1
			SE	0.26	ppm	MF	21-MAY-01 180	6020
			SO4=	356	ppm	JHN	01-JUN-01 28	9036
			TDS	1007.	ppm	AH	15-MAY-01 7	160.1
			TSS	<1.0	ppm	MF	14-MAY-01	160.2
			ZN	0.041	ppm	EH	18-MAY-01 180	6010
			AS	0.013	ppm	MF	21-MAY-01 180	6020
			CA	206.	ppm	EH	18-MAY-01 180	6010
L010653-012	08-MAY-01	EPRI-0105-107	CD	0.008	ppm	MF	21-MAY-01 180	6020
			CL-	492	ppm	JHN	30-MAY-01 28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	4500.	umhos/cm2	BD	14-MAY-01 28	120.1
			CR	<0.010	ppm	MF	21-MAY-01 180	6020
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	0.99	ppm	EH	14-MAY-01 28	340.2
			FE	2.4	ppm	EH	18-MAY-01 180	6010
			HCO3	282.	ppm CaCO3	DC	18-MAY-01 14	310.1
			K	13.	ppm	EH	18-MAY-01 180	6010
			MG	72.	ppm	EH	18-MAY-01 180	6010
			NA	816.	ppm	EH	18-MAY-01 180	6010
			NO2/NO3	30	ppm	JHN	03-JUN-01 28	353.2
			PB	0.004	ppm	MF	21-MAY-01 180	6020
			PH	7.8	pH	DC	18-MAY-01	150.1
			SE	0.23	ppm	MF	21-MAY-01 180	6020
			SO4=	1583	ppm	JHN	01-JUN-01 28	9036
			TDS	3362.	ppm	AH	15-MAY-01 7	160.1

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L010653-012	08-MAY-01	EPRI-0105-107	TSS	106.	ppm	MF	14-MAY-01	160.2
			ZN	0.065	ppm	EH	18-MAY-01	6010
			AS	0.026	ppm	MF	21-MAY-01	180 6020
			CA	353.	ppm	EH	18-MAY-01	180 6010
			CD	0.006	ppm	MF	21-MAY-01	180 6020
			CL-	905	ppm	JHN	30-MAY-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	5840.	umhos/cm2	BD	14-MAY-01	28 120.1
			CR	<0.010	ppm	MF	21-MAY-01	180 6020
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	0.99	ppm	EH	14-MAY-01	28 340.2
			FE	<0.10	ppm	EH	18-MAY-01	180 6010
			HCO3	145.	ppm CaCO3	DC	18-MAY-01	14 310.1
			K	17.	ppm	EH	18-MAY-01	180 6010
			MG	164.	ppm	EH	18-MAY-01	180 6010
			NA	689.	ppm	EH	18-MAY-01	180 6010
			NO2/NO3	64	ppm	JHN	03-JUN-01	28 353.2
			PH	<0.003	ppm	MF	21-MAY-01	180 6020
			SE	7.7	ph	DC	18-MAY-01	150.1
			SO4=	0.45	ppm	MF	21-MAY-01	180 6020
			TDS	1970	ppm	JHN	01-JUN-01	28 9036
			TSS	4513.	ppm	AH	15-MAY-01	7 160.1
			ZN	<1.0	ppm	MF	14-MAY-01	160.2
				0.073	ppm	EH	18-MAY-01	180 6010
			AS	0.081	ppm	MF	21-MAY-01	180 6020
			CA	128.	ppm	EH	18-MAY-01	180 6010
			CD	<0.005	ppm	MF	21-MAY-01	180 6020
			CL-	557	ppm	JHN	30-MAY-01	28 325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	4560.	umhos/cm2	BD	14-MAY-01	28 120.1
			CR	<0.010	ppm	MF	21-MAY-01	180 6020
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	2.0	ppm	EH	14-MAY-01	28 340.2
			FE	0.62	ppm	EH	18-MAY-01	180 6010
			HCO3	360.	ppm CaCO3	DC	18-MAY-01	14 310.1
			K	23.	ppm	EH	18-MAY-01	180 6010
			MG	77.	ppm	EH	18-MAY-01	180 6010

L010653-014 08-MAY-01 EPRI-0105-168

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L010653-014	08-MAY-01	EPRI-0105-168	NA	822.	ppm	EH	18-MAY-01	180	6010
			NO2/NO3	11	ppm	JHN	03-JUN-01	28	353.2
			PB	0.005	ppm	MF	21-MAY-01	180	6020
			PH	8.0	pH	DC	18-MAY-01		150.1
			SE	0.10	ppm	MF	21-MAY-01	180	6020
			SO4=	1712	ppm	JHN	01-JUN-01	28	9036
			TDS	3266.	ppm	AH	15-MAY-01	7	160.1
			TSS	24.	ppm	MF	14-MAY-01		160.2
			ZN	0.072	ppm	EH	18-MAY-01	180	6010
			AS	<0.005	ppm	MF	21-MAY-01	180	6020
			CA	<1.0	ppm	EH	18-MAY-01	180	6010
			CD	<0.005.	ppm	MF	21-MAY-01	180	6020
			CL-	<1.0	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	<5.0	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
L010653-015	08-MAY-01	EPRI-0105-224	CU	<0.025.	ppm	EH	18-MAY-01		6010
			F-	<0.050	ppm	EH	14-MAY-01	28	340.2
			FE	<0.10	ppm	EH	18-MAY-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	<5.0	ppm	EH	18-MAY-01	180	6010
			MG	<1.0	ppm	EH	18-MAY-01	180	6010
			NA	<5.0	ppm	EH	18-MAY-01	180	6010
			NO2/NO3	<0.10	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003.	ppm	MF	21-MAY-01	180	6020
			PH	5.3	pH	DC	18-MAY-01		150.1
			SE	<0.005	ppm	MF	21-MAY-01	180	6020
			SO4=	<2.0	ppm	JHN	01-JUN-01	28	9036
			TDS	<10.	ppm	AH	15-MAY-01	7	160.1
			TSS	<1.0	ppm	MF	14-MAY-01		160.2
			ZN	<0.020	ppm	EH	18-MAY-01	180	6010
L010653-016	09-MAY-01	EPRI-0105-169	AS	0.17	ppm	MF	21-MAY-01	180	6020
			CA	190.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	458	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	3790.	umhos/cm2	BD	14-MAY-01	28	120.1

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L010653-016	09-MAY-01	EPRI-0105-169	CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	0.20	ppm	EH	18-MAY-01		6010
			F-	2.7	ppm	EH	14-MAY-01	28	340.2
			FE	8.7	ppm	EH	18-MAY-01	180	6010
			HCO3	186.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	19.	ppm	EH	18-MAY-01	180	6010
			MG	72.	ppm	EH	18-MAY-01	180	6010
			NA	566.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	1.4	ppm	JHN	03-JUN-01	28	353.2
			PB	0.10	ppm	MF	21-MAY-01	180	6020
			PH	8.0	pH	DC	18-MAY-01		150.1
			SE	0.025	ppm	MF	21-MAY-01	180	6020
			SO4=	1415	ppm	JHN	01-JUN-01	28	9036
			TDS	2769.	ppm	AH	15-MAY-01	7	160.1
			TSS	225.	ppm	MF	14-MAY-01		160.2
			ZN	0.39	ppm	EH	18-MAY-01	180	6010
L010653-017	09-MAY-01	EPRI-0105-170	AS	0.014	ppm	MF	21-MAY-01	180	6020
			CA	263.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	455	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	4900.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	0.88	ppm	EH	14-MAY-01	28	340.2
			FE	0.59	ppm	EH	18-MAY-01	180	6010
			HCO3	240.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	17.	ppm	EH	18-MAY-01	180	6010
			MG	119.	ppm	EH	18-MAY-01	180	6010
			NA	708.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	9.9	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	7.7	pH	DC	18-MAY-01		150.1
			SE	0.12	ppm	MF	21-MAY-01	180	6020
			SO4=	2353	ppm	JHN	01-JUN-01	28	9036
			TDS	3804.	ppm	AH	15-MAY-01	7	160.1
			TSS	17.	ppm	MF	14-MAY-01		160.2
			ZN	0.10	ppm	EH	18-MAY-01	180	6010

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L010653-018	09-MAY-01	EPRI-0105-143	AS	1.5	ppm	EH	18-MAY-01	180
			CA	152.	ppm	EH	18-MAY-01	180
			CD	<0.005	ppm	MF	21-MAY-01	180
			CL-	426	ppm	JHN	30-MAY-01	28
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	4000.	umhos/cm2	BD	14-MAY-01	28
			CR	<0.010	ppm	MF	21-MAY-01	180
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	2.5	ppm	EH	14-MAY-01	28
			FE	6.6	ppm	EH	14-MAY-01	28
			HCO3	350.	ppm	EH	18-MAY-01	180
			K	18.	ppm CaCO3	DC	18-MAY-01	14
			MG	45.	ppm	EH	18-MAY-01	180
			NA	684.	ppm	EH	18-MAY-01	180
			NO2/NO3	1.1	ppm	JHN	09-JUN-01	180
			PB	0.008	ppm	MF	03-JUN-01	28
			PH	8.2	ppm	MF	21-MAY-01	180
			SE	0.013	PH	DC	18-MAY-01	150.1
			SO4=	1483	ppm	MF	08-JUN-01	180
			TDS	2807.	ppm	JHN	01-JUN-01	28
			TSS	320.	ppm	AH	15-MAY-01	7
			ZN	0.065	ppm	MF	14-MAY-01	160.1
					ppm	EH	18-MAY-01	160.2
					ppm	EH	18-MAY-01	6010
L010653-019	09-MAY-01	EPRI-0105-228	AS	1.5	ppm	EH	18-MAY-01	180
			CA	162.	ppm	EH	18-MAY-01	180
			CD	<0.005	ppm	MF	21-MAY-01	180
			CL-	459	ppm	JHN	30-MAY-01	28
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	4070.	umhos/cm2	BD	14-MAY-01	28
			CR	<0.010	ppm	MF	21-MAY-01	180
			CU	<0.025	ppm	EH	18-MAY-01	6010
			F-	2.2	ppm	EH	14-MAY-01	28
			FE	8.0	ppm	EH	14-MAY-01	28
			HCO3	347.	ppm	EH	18-MAY-01	180
			K	18.	ppm CaCO3	DC	18-MAY-01	14
			MG	48.	ppm	EH	18-MAY-01	180
			NA	714.	ppm	EH	18-MAY-01	180
			NO2/NO3	.75	ppm	JHN	09-JUN-01	180
			PB	0.008	ppm	MF	03-JUN-01	28
					ppm	MF	21-MAY-01	353.2
					ppm		21-MAY-01	6020

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L010653-019	09-MAY-01	EPRI-0105-228	PH	8.0	pH	DC	18-MAY-01	180	150.1
			SE	0.010	ppm	MF	21-MAY-01	180	6020
			SO4=	1426	ppm	JHN	01-JUN-01	28	9036
			TDS	2890.	ppm	AH	15-MAY-01	7	160.1
			TSS	437.	ppm	MF	14-MAY-01		160.2
			ZN	0.059	ppm	EH	18-MAY-01	180	6010
			AS	1.5	ppm	EH	18-MAY-01	180	6010
			CA	106.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	315	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	2960.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	3.9	ppm	EH	14-MAY-01	28	340.2
L010653-020	09-MAY-01	EPRI-0105-198	FE	1.4	ppm	EH	18-MAY-01	180	6010
			HCO3	113.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	38.	ppm	EH	18-MAY-01	180	6010
			MG	26.	ppm	EH	18-MAY-01	180	6010
			NA	469.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	.36	ppm	JHN	03-JUN-01	28	353.2
			PB	0.005	ppm	MF	21-MAY-01	180	6020
			PH	7.9	pH	DC	18-MAY-01		150.1
			SE	<0.005	ppm	MF	21-MAY-01	180	6020
			SO4=	2141	ppm	JHN	01-JUN-01	28	9036
			TDS	2073.	ppm	AH	16-MAY-01	7	160.1
			TSS	5.1	ppm	MF	14-MAY-01		160.2
			ZN	0.10	ppm	EH	18-MAY-01	180	6010
			AS	0.025	ppm	MF	21-MAY-01	180	6020
			CA	89.	ppm	EH	18-MAY-01	180	6010
L010653-021	09-MAY-01	EPRI-0105-199	CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	408	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	4130.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	1.8	ppm	EH	15-MAY-01	28	340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	TEST METHOD
L010653-021	09-MAY-01	EPRI-0105-199	FE	<0.10		EH	18-MAY-01	180	6010
			HCO3	312.	ppm	DC	18-MAY-01	14	310.1
			K	11.	ppm	EH	18-MAY-01	180	6010
			MG	57.	ppm	EH	18-MAY-01	180	6010
			NA	712.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	6.6	ppm	JHN	03-JUN-01	28	353.2
			PB	0.003	ppm	MF	21-MAY-01	180	6020
			PH	8.1	pH	DC	18-MAY-01		150.1
			SE	0.078	ppm	MF	21-MAY-01	180	6020
			SO4=	1572	ppm	JHN	01-JUN-01	28	9036
			TDS	2958.	ppm	AH	16-MAY-01	7	160.1
			TSS	<1.0	ppm	MF	14-MAY-01		160.2
			ZN	0.051	ppm	EH	18-MAY-01	180	6010
			AS	0.028	ppm	MF	21-MAY-01	180	6020
			CA	59.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	439	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-01		310.1
			COND.	5080.	umhos/cm2	BD	14-MAY-01	28	120.1
L010653-022	09-MAY-01	EPRI-0105-154	CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	2.1	ppm	EH	15-MAY-01	28	340.2
			FE	0.21	ppm	EH	18-MAY-01	180	6010
			HCO3	487.	ppm	DC	18-MAY-01	14	310.1
			K	8.6	ppm	EH	18-MAY-01	180	6010
			MG	40.	ppm	EH	18-MAY-01	180	6010
			NA	1042.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	3.5	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	8.2	pH	DC	18-MAY-01		150.1
			SE	0.047	ppm	MF	21-MAY-01	180	6020
			SO4=	1919	ppm	JHN	01-JUN-01	28	9036
			TDS	3575.	ppm	AH	16-MAY-01	7	160.1
			TSS	3.0	ppm	MF	14-MAY-01		160.2
			ZN	0.067	ppm	EH	18-MAY-01	180	6010
			AS	3.0	ppm	EH	18-MAY-01	180	6010
			CA	488.	ppm	EH	18-MAY-01	180	6010
L010653-023	09-MAY-01	EPRI-0105-110	AS	3.0	ppm	EH	18-MAY-01	180	6010
			CA	488.	ppm	EH	18-MAY-01	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010653-023	09-MAY-01	EPRI-0105-110	CD	0.007	ppm	MF	21-MAY-01	180	6020
			CL-	610	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	10370.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	0.039	ppm	EH	18-MAY-01		6010
			F-	2.3	ppm	EH	15-MAY-01	28	340.2
			FE	0.62	ppm	EH	18-MAY-01	180	6010
			HCO3	480.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	147.	ppm	EH	18-MAY-01	180	6010
			MG	250.	ppm	EH	18-MAY-01	180	6010
			NA	1843.	ppm	EH	13-JUN-01	180	6010
			NO2/NO3	115	ppm	JHN	03-JUN-01	28	353.2
			PB	0.015	ppm	MF	21-MAY-01	180	6020
			PH	7.6	pH	DC	18-MAY-01		150.1
			SE	1.8	ppm	MF	21-MAY-01	180	6020
			SO4=	5250	ppm	JHN	01-JUN-01	28	9036
			TDS	9125.	ppm	AH	16-MAY-01	7	160.1
			TSS	14.	ppm	MF	14-MAY-01		160.2
			ZN	0.47	ppm	EH	18-MAY-01	180	6010
L010653-024	08-MAY-01	EPRI-0105-229	AS	1.5	ppm	EH	18-MAY-01	180	6010
			CA	72.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	244	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	3260.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	2.7	ppm	EH	15-MAY-01	28	340.2
			FE	1.4	ppm	EH	18-MAY-01	180	6010
			HCO3	350.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	19.	ppm	EH	18-MAY-01	180	6010
			MG	33.	ppm	EH	18-MAY-01	180	6010
			NA	597.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	6.4	ppm	JHN	03-JUN-01	28	353.2
			PB	0.005	ppm	MF	21-MAY-01	180	6020
			PH	8.2	pH	DC	18-MAY-01		150.1
			SE	0.082	ppm	MF	21-MAY-01	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010653-024	08-MAY-01	EPRI-0105-229	SO4=	983	ppm	JHN	01-JUN-01	28	9036
			TDS	2230.	ppm	AH	15-MAY-01	7	160.1
			TSS	129.	ppm	MF	14-MAY-01		160.2
			ZN	0.034	ppm	EH	18-MAY-01	180	6010
			AS	0.021	ppm	MF	21-MAY-01	180	6020
			CA	372.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	599	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	6560.	umhos/cm2	BD	14-MAY-01	28	120.1
L010653-025	08-MAY-01	EPRI-0105-230	CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	0.88	ppm	EH	15-MAY-01	28	340.2
			FE	1.8	ppm	EH	18-MAY-01	180	6010
			HCO3	240.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	39.	ppm	EH	18-MAY-01	180	6010
			MG	160.	ppm	EH	18-MAY-01	180	6010
			NA	948.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	29	ppm	JHN	03-JUN-01	28	353.2
			PB	0.009	ppm	MF	21-MAY-01	180	6020
L010653-026	08-MAY-01	EPRI-0105-231	PH	7.8	PH	DC	18-MAY-01		150.1
			SE	0.93	ppm	MF	21-MAY-01	180	6020
			SO4=	2977	ppm	JHN	01-JUN-01	28	9036
			TDS	5331.	ppm	AH	15-MAY-01	7	160.1
			TSS	33.	ppm	MF	14-MAY-01		160.2
			ZN	0.083	ppm	EH	18-MAY-01	180	6010
			AS	2.5	ppm	EH	18-MAY-01	180	6010
			CA	292.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	651*	ppm	JHN	15-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	5780.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	4.8	ppm	EH	15-MAY-01	28	340.2
			FE	1.3	ppm	EH	18-MAY-01	180	6010
			HCO3	377.	ppm CaCO3	DC	18-MAY-01	14	310.1

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L010653-026	08-MAY-01	EPRI-0105-231	K	69.	ppm	EH	18-MAY-01	180	6010
			MG	75.	ppm	EH	18-MAY-01	180	6010
			NA	859.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	.35	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	7.7	pH	DC	18-MAY-01	150.1	
			SE	0.028	ppm	MF	21-MAY-01	180	6020
			SO4=	2174	ppm	JHN	01-JUN-01	28	9036
			TDS	4343.	ppm	AH	15-MAY-01	7	160.1
			TSS	13.	ppm	MF	14-MAY-01	160.2	
			ZN	0.032	ppm	EH	18-MAY-01	180	6010
			AS	0.61	ppm	MF	21-MAY-01	180	6020
			CA	116.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	657	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1	
			COND.	5480.	umhos/cm2	BD	14-MAY-01	28	130.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01	6010	
			F-	1.8	ppm	EH	15-MAY-01	28	340.2
L010653-027	08-MAY-01	EPRI-0105-232	FE	1.0	ppm	EH	18-MAY-01	180	6010
			HCO3	222.	ppm	DC	18-MAY-01	14	310.1
			K	42.	ppm	EH	18-MAY-01	180	6010
			MG	40.	ppm	EH	18-MAY-01	180	6010
			NA	790.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	.43	ppm	JHN	03-JUN-01	28	353.2
			PB	0.003	ppm	MF	21-MAY-01	180	6020
			PH	7.4	pH	DC	18-MAY-01	150.1	
			SE	<0.005	ppm	MF	21-MAY-01	180	6020
			SO4=	1865.	ppm	JHN	01-JUN-01	28	9036
			TDS	3380.	ppm	AH	15-MAY-01	7	160.1
			TSS	11.	ppm	MF	14-MAY-01	160.2	
			ZN	0.033	ppm	EH	18-MAY-01	180	6010
			AS	14.	ppm	EH	18-MAY-01	180	6010
			CA	396.	ppm	EH	18-MAY-01	180	6010
			CD	0.006	ppm	MF	21-MAY-01	180	6020
			CL-	227	ppm	JHN	30-MAY-01	28	325.2
L010653-028	09-MAY-01	EPRI-0105-141	AS	14.	ppm	EH	18-MAY-01	180	6010
			CA	396.	ppm	EH	18-MAY-01	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
L010653-028	09-MAY-01	EPRI-0105-141	CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1
			COND.	17560.	umhos/cm2	BD	14-MAY-01	28
			CR	<0.010	ppm	MF	21-MAY-01	180
			CU	0.028	ppm	EH	18-MAY-01	6010
			F-	1.5	ppm	EH	15-MAY-01	28
			FE	0.49	ppm	EH	18-MAY-01	340.2
			HCO3	360.	ppm CaCO3	DC	18-MAY-01	180
			K	847.	ppm	EH	18-MAY-01	14
			MG	374.	ppm	EH	18-MAY-01	310.1
			NA	3711.	ppm	EH	18-MAY-01	6010
			NO2/NO3	215	ppm	JHN	13-JUN-01	180
			PB	0.003	ppm	MF	03-JUN-01	28
			PH	7.1	ppm	DC	21-MAY-01	180
			SE	4.7	pH	DC	18-MAY-01	6020
			SO4=	11056	ppm	MF	21-MAY-01	180
			TDS	16405.	ppm	JHN	04-JUN-01	28
			TSS	20.	ppm	AH	16-MAY-01	7
			ZN	0.15	ppm	MF	14-MAY-01	160.1
					ppm	EH	18-MAY-01	160.2
					ppm	EH	18-MAY-01	6010
L010653-029	09-MAY-01	EPRI-0105-142	AS	1.3	ppm	EH	18-MAY-01	180
			CA	154.	ppm	EH	18-MAY-01	6010
			CD	<0.005	ppm	MF	18-MAY-01	180
			CL-	554	ppm	JHN	21-MAY-01	180
			CO3	<1.0	ppm CaCO3	DC	30-MAY-01	28
			COND.	5280.	umhos/cm2	BD	18-MAY-01	325.2
			CR	<0.010	ppm	DC	14-MAY-01	310.1
			CU	<0.025	ppm	MF	21-MAY-01	120.1
			F-	2.1	ppm	EH	18-MAY-01	6020
			FE	<0.10	ppm	EH	15-MAY-01	6010
			HCO3	406.	ppm	EH	18-MAY-01	28
			K	121.	ppm CaCO3	DC	18-MAY-01	180
			MG	90.	ppm	EH	18-MAY-01	340.2
			NA	800.	ppm	DC	18-MAY-01	6010
			NO2/NO3	4.4	ppm	EH	18-MAY-01	14
			PB	0.006	ppm	DC	18-MAY-01	310.1
			PH	8.1	ppm	EH	18-MAY-01	6010
			SE	0.19	ppm	EH	18-MAY-01	180
			SO4=	2070	ppm	EH	09-JUN-01	180
			TDS	3909.	ppm	JHN	03-JUN-01	28
					ppm	MF	21-MAY-01	353.2
					ppm	DC	21-MAY-01	6020
					pH	DC	18-MAY-01	150.1
					ppm	MF	21-MAY-01	180
					ppm	JHN	04-JUN-01	28
					ppm	AH	16-MAY-01	7

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DATA METHOD
L010653-029	09-MAY-01	EPRI-0105-142	TSS	2.3	ppm	MF	14-MAY-01	180	160.2
			ZN	0.11	ppm	EH	18-MAY-01	180	6010
L010653-030	09-MAY-01	EPRI-0105-140	AS	0.031	ppm	MF	21-MAY-01	180	6020
			CA	229.	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	424	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	28	310.1
			COND.	6080.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01	180	6010
			F-	2.7	ppm	EH	15-MAY-01	28	340.2
			FE	0.50	ppm	EH	18-MAY-01	180	6010
			HCO3	231.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	351.	ppm	EH	18-MAY-01	180	6010
			MG	101.	ppm	EH	18-MAY-01	180	6010
			NA	861.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	16	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	7.7	pH	DC	18-MAY-01	180	150.1
			SE	0.93	ppm	MF	21-MAY-01	180	6020
			SO4=	2938	ppm	JHN	04-JUN-01	28	9036
			TDS	4702.	ppm	AH	16-MAY-01	7	160.1
L010653-031	09-MAY-01	EPRI-0105-164	TSS	7.4	ppm	MF	14-MAY-01	180	160.2
			ZN	0.080	ppm	EH	18-MAY-01	180	6010
			AS	0.021	ppm	MF	21-MAY-01	180	6020
			CA	684.	ppm	EH	18-MAY-01	180	6010
			CD	0.032	ppm	MF	21-MAY-01	180	6020
			CL-	1569	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	28	310.1
			COND.	10160.	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01	180	6010
			F-	1.0	ppm	EH	15-MAY-01	28	340.2
			FE	2.3	ppm	EH	18-MAY-01	180	6010
			HCO3	274.	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	45.	ppm	EH	18-MAY-01	180	6010
			MG	330.	ppm	EH	18-MAY-01	180	6010

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L010653-031	09-MAY-01	EPRI-0105-164	NA	1249.	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	228	ppm	JHN	03-JUN-01	28	353.2
			PB	0.007	ppm	MF	21-MAY-01	180	6020
			PH	7.4	pH	DC	18-MAY-01		150.1
			SE	0.58	ppm	MF	21-MAY-01	180	6020
			SO4=	2879	ppm	JHN	04-JUN-01	28	9036
			TDS	8345.	ppm	AH	16-MAY-01	7	160.1
			TSS	76.	ppm	MF	14-MAY-01		160.2
			ZN	0.43	ppm	EH	18-MAY-01	180	6010
			AS	<0.005	ppm	MF	21-MAY-01	180	6020
			CA	<1.0	ppm	EH	18-MAY-01	180	6010
			CD	<0.005	ppm	MF	21-MAY-01	180	6020
			CL-	<1.0	ppm	JHN	30-MAY-01	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
L010653-032	09-MAY-01	EPRI-0105-233	COND.	<5.0	umhos/cm2	BD	14-MAY-01	28	120.1
			CR	<0.010	ppm	MF	21-MAY-01	180	6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
			F-	<0.050	ppm	EH	15-MAY-01	28	340.2
			FE	<0.10	ppm	EH	18-MAY-01	180	6010
			HCO3	<1.0	ppm CaCO3	DC	18-MAY-01	14	310.1
			K	<5.0	ppm	EH	18-MAY-01	180	6010
			MG	<1.0	ppm	EH	18-MAY-01	180	6010
			NA	<5.0	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	<0.10	ppm	JHN	03-JUN-01	28	353.2
			PB	<0.003	ppm	MF	21-MAY-01	180	6020
			PH	5.5	pH	DC	18-MAY-01		150.1
			SE	<0.005	ppm	MF	21-MAY-01	180	6020
			SO4=	<2.0	ppm	JHN	01-JUN-01	28	9036
			TDS	<10.	ppm	AH	16-MAY-01	7	160.1
			TSS	<1.0	ppm	MF	14-MAY-01		160.2
			ZN	<0.020	ppm	EH	18-MAY-01	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

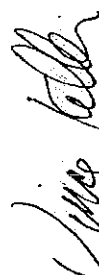
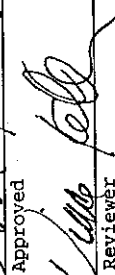
El Paso

Water and Solid Waste (Project 3220)

Batch No: L010653

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	DATE METHOD
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*Holding time for one CL- analysis was exceeded (sample L010653-001)
PH is a field parameter, therefore holding times cannot be met.
Metals digestions wer conducted in accordance with EPA 3050 and 6020.


Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010481

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010481-1		Matrix Spike	AS	100	%Recovery	MF	21-MAY-01	6020	
			CD	96	%Recovery	MF	21-MAY-01	6020	
			CR	90	%Recovery	MF	21-MAY-01	6020	
			CU	95	%Recovery	EH	18-MAY-01	6010	
			P-	102	%Recovery	EH	14-MAY-01	340.2	
			FE	90	%Recovery	EH	18-MAY-01	6010	
			NA	SR>4XSA	%Recovery	EH	18-MAY-01	6010	
			NO2/NO3	109	%Recovery	JHN	03-JUN-01	353.2	
			PB	93	%Recovery	MF	21-MAY-01	6020	
			SE	99	%Recovery	MF	21-MAY-01	6020	
			SO4=	109	%Recovery	JHN	01-JUN-01	9036	
			ZN	86	%Recovery	EH	18-MAY-01	6010	
			AS	<0.005	ppm	MF	21-MAY-01	6020	
			CA	<1.0	ppm	EH	18-MAY-01	6010	
			CD	<0.005	ppm	MF	21-MAY-01	6020	
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1	
WG010481-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	14-MAY-01	120.1	
			CR	<0.010	ppm	MF	21-MAY-01	6020	
			CU	<0.025	ppm	EH	18-MAY-01	6010	
			F-	<0.050	ppm	EH	14-MAY-01	340.2	
			FE	<0.10	ppm	EH	18-MAY-01	6010	
			HCO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1	
			K	<5.0	ppm	EH	18-MAY-01	6010	
			MG	<1.0	ppm	EH	18-MAY-01	6010	
			NA	<5.0	ppm	EH	18-MAY-01	6010	
			NO2/NO3	<0.10	ppm	JHN	03-JUN-01	353.2	
			PB	<0.003	ppm	MF	21-MAY-01	6020	
			SE	<0.005	ppm	MF	21-MAY-01	6020	
			SO4=	<2.0	ppm	JHN	01-JUN-01	9036	
			TDS	<10.	ppm	AH	14-MAY-01	160.1	
			TSS	<10.	ppm	MF	14-MAY-01	160.2	
			ZN	<0.020	ppm	EH	18-MAY-01	6010	
WG010481-3		Lab Control Sample	AS	107	%Recovery	MF	21-MAY-01	6020	
			CA	93	%Recovery	EH	18-MAY-01	6010	
			CD	108	%Recovery	MF	21-MAY-01	6020	
			COND.	101	%Recovery	BD	14-MAY-01	120.1	
			CR	93	%Recovery	MF	21-MAY-01	6020	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010481

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010481-3		Lab Control Sample	CU	97	% Recovery	EH	18-MAY-01		6010
			F-	100	% Recovery	EH	14-MAY-01		340.2
			FE	95	% Recovery	EH	18-MAY-01		6010
			HCO3	102	% Recovery	DC	18-MAY-01		310.1
			K	97	% Recovery	EH	18-MAY-01		6010
			MG	94	% Recovery	EH	18-MAY-01		6010
			NA	108	% Recovery	EH	18-MAY-01		6010
			NO2/NO3	95	% Recovery	JHN	03-JUN-01		353.2
			PB	95	% Recovery	MF	21-MAY-01		6020
			SE	122	% Recovery	MF	21-MAY-01		6020
			SO4=	108	% Recovery	JHN	01-JUN-01		9036
			TDS	99	% Recovery	AH	14-MAY-01		160.1
			TSS	91	% Recovery	MF	14-MAY-01		160.2
			ZN	90	% Recovery	EH	18-MAY-01		6010
			CO3	<1	% RPD	DC	18-MAY-01		310.1
			COND.	<1	% RPD	BD	14-MAY-01		120.1
			F-	2.2	% RPD	EH	14-MAY-01		340.2
			HCO3	<1	% RPD	DC	18-MAY-01		310.1
			NO2/NO3	19	% RPD	JHN	03-JUN-01		353.2
			SO4=	6.4	% RPD	JHN	01-JUN-01		9036
WG010481-4		Duplicate	TDS	1.0	% RPD	AH	15-MAY-01		160.1
			TSS	1.0	% RPD	MF	14-MAY-01		160.2
			AS	1.9	% RPD	MF	21-MAY-01		6020
			CA	6.8	% RPD	EH	18-MAY-01		6010
			CD	2.6	% RPD	MF	21-MAY-01		6020
			CR	1.3	% RPD	MF	21-MAY-01		6020
			CU	7.5	% RPD	EH	18-MAY-01		6010
			FE	6.6	% RPD	EH	18-MAY-01		6010
			K	12	% RPD	EH	18-MAY-01		6010
			MG	7.7	% RPD	EH	18-MAY-01		6010
			NA	9.3	% RPD	EH	18-MAY-01		6010
			PB	2.2	% RPD	MF	21-MAY-01		6020
			SE	1.4	% RPD	MF	21-MAY-01		6020
			ZN	5.6	% RPD	EH	18-MAY-01		6010
			AS	0.005	ppm				6020
			CA	1.0	ppm				6010
WG010481-5		Matrix Spike Duplicate							
WG010481-6		Reporting Limit							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010481

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010481-6		Reporting Limit	CD	0.005	ppm				6020
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020
			CU	0.025	ppm				6010
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	5.0	ppm				6010
			MG	1.0	ppm				6010
			NA	5.0	ppm				6010
			NO2/NO3	0.10	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6010
			AS	85	%Recovery	EH	18-MAY-01		6010
			CD	93	%Recovery	MF	21-MAY-01		6020
WG010481-7		Matrix Spike	CR	93	%Recovery	MF	21-MAY-01		6020
			CU	97	%Recovery	EH	18-MAY-01		6010
			F-	101	%Recovery	EH	15-MAY-01		340.2
			FE	93	%Recovery	EH	18-MAY-01		6010
			NA	SR>4XSA	%Recovery	EH	09-JUN-01		6010
			NO2/NO3	90	%Recovery	JHN	03-JUN-01		353.2
			PB	93	%Recovery	MF	21-MAY-01		6020
			SE	100	%Recovery	MF	21-MAY-01		6020
			SO4=	102	%Recovery	JHN	01-JUN-01		9036
			ZN	89	%Recovery	EH	18-MAY-01		6010
			AS	<0.020	ppm	EH	18-MAY-01		6010
			CA	<1.0	ppm	EH	18-MAY-01		6010
			CD	<0.005	ppm	MF	21-MAY-01		6020
			CO3	<1.0	ppm CaCO3	DC	18-MAY-01		310.1
			COND.	<5.0	umhos/cm2	BD	14-MAY-01		120.1
			CR	<0.010	ppm	MF	21-MAY-01		6020
			CU	<0.025	ppm	EH	18-MAY-01		6010
WG010481-8		Prep Blank	AS						
			CA						
			CD						

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010481

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010481-8		Prep Blank	F-	<0.050	ppm	EH	15-MAY-01	340.2	
			FE	<0.10	ppm	EH	18-MAY-01	6010	
			HCO3	<1.0	ppm CaCO3	DC	18-MAY-01	310.1	
			K	<5.0	ppm	EH	18-MAY-01	6010	
			MG	<1.0	ppm	EH	18-MAY-01	6010	
			NA	<5.0	ppm	EH	18-MAY-01	6010	
			NO2/NO3	<0.10	ppm	JHN	03-JUN-01	353.2	
			PB	<0.003	ppm	MF	21-MAY-01	6020	
			SE	<0.005	ppm	MF	21-MAY-01	6020	
			SO4=	<2.0	ppm	JHN	01-JUN-01	9036	
			TDS	<10.	ppm	AH	15-MAY-01	160.1	
			TSS	<1.0	ppm	MF	14-MAY-01	160.2	
			ZN	<0.020	ppm	EH	18-MAY-01	6010	
			AS	89	%Recovery	EH	18-MAY-01	6010	
			CA	93	%Recovery	EH	18-MAY-01	6010	
			CD	102	%Recovery	MF	21-MAY-01	6020	
			COND.	100	%Recovery	BD	14-MAY-01	120.1	
			CR	102	%Recovery	MF	21-MAY-01	6020	
			CU	95	%Recovery	EH	18-MAY-01	6010	
			F-	95	%Recovery	EH	15-MAY-01	340.2	
WG010481-9		Lab Control Sample	FE	100	%Recovery	EH	18-MAY-01	6010	
			HCO3	100	%Recovery	DC	18-MAY-01	310.1	
			K	103	%Recovery	EH	18-MAY-01	6010	
			MG	94	%Recovery	EH	18-MAY-01	6010	
			NA	95	%Recovery	EH	18-MAY-01	6010	
			NO2/NO3	103	%Recovery	JHN	03-JUN-01	353.2	
			PB	97	%Recovery	MF	21-MAY-01	6020	
			SE	105	%Recovery	MF	21-MAY-01	6020	
			SO4=	102	%Recovery	JHN	04-JUN-01	9036	
			TDS	101	%Recovery	AH	16-MAY-01	160.1	
			TSS	93	%Recovery	MF	14-MAY-01	160.2	
			ZN	90	%Recovery	EH	18-MAY-01	6010	
			CO3	<1	% RPD	DC	18-MAY-01	310.1	
			COND.	<1	% RPD	BD	14-MAY-01	120.1	
			F-	<1	% RPD	EH	15-MAY-01	340.2	
			HCO3	<1	% RPD	DC	18-MAY-01	310.1	
			NO2/NO3	1.7	% RPD	JHN	03-JUN-01	353.2	
WG010481-10		Duplicate	CO3	<1	% RPD	DC	18-MAY-01	310.1	
			COND.	<1	% RPD	BD	14-MAY-01	120.1	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010481

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS
							ANALYZED	METHOD	
WG010481-10		Duplicate	SO4=	8.2	% RPD	JHN	01-JUN-01		9036
			TDS	1.1	% RPD	AH	16-MAY-01		160.1
			TSS	<1	% RPD	MF	14-MAY-01		160.2
WG010481-11		Matrix Spike Duplicate	AS	7.2	% RPD	EH	18-MAY-01		6010
			CA	<1	% RPD	EH	18-MAY-01		6010
			CD	<1	% RPD	MF	21-MAY-01		6020
			CR	<1	% RPD	MF	21-MAY-01		6020
			CU	5.0	% RPD	EH	18-MAY-01		6010
			FE	5.0	% RPD	EH	18-MAY-01		6010
			K	5.7	% RPD	EH	18-MAY-01		6010
			MG	2.4	% RPD	EH	18-MAY-01		6010
			NA	<1	% RPD	EH	09-JUN-01		6010
			PB	<1	% RPD	MF	21-MAY-01		6020
			SE	7.7	% RPD	MF	21-MAY-01		6020
			ZN	5.4	% RPD	EH	18-MAY-01		6010

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 TYPES							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		
5-7-01	1030			EPR1-0105-225	X	X			X					
	1000			EPR1-0105-226	X	X			X					
	1505			EPR1-0105-227	X	X			X					
5-8-01	930			EPR1-0105-196	X	X			X					
	935			APR1-0105-223	X	X			X					
	1010			EPR1-0105-106	X	X			X					
	1030			EPR1-0105-105	X	X			X					
	1115			EPR1-0105-165	X	X			X					
	1130			EPR1-0105-166	X	X			X					
	1330			EPR1-0105-156	X	X			X					
	1400			EPR1-0105-167	X	X			X					
	1420			EPR1-0105-107	X	X			X					
	1445			EPR1-0105-171	X	X			X					
	1515			EPR1-0105-168	X	X			X					
	1600			EPR1-0105-224	X	X			X					
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS						
Date/Time		Date/Time		Remarks										
5/8/01 1600				TSC - SLC, UT										
Relinquished (Signature)		Received by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits		QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter						
Date/Time		Date/Time		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined										
5-10-01 1010														

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HFORM 195

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L010689-001	11-MAY-01	EPRI-0105-158	AS	0.016	ppm	MF	25-MAY-01	180
			CA	102.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
			CL-	592	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm	CaCO3	RDC	325.2
			COND.	4660	umhos/cm2	BD	18-MAY-01	310.1
			CR	<0.010	ppm	MF	25-MAY-01	180
			CU	<0.025	ppm	MF	25-MAY-01	6020
			F-	1.2	ppm	EH	18-MAY-01	28
			FE	0.25	ppm	EH	23-MAY-01	340.2
			HCO3	326	ppm	RDC	23-MAY-01	180
			K	12	ppm	CaCO3	22-MAY-01	14
			MG	103.	ppm	EH	09-JUN-01	310.1
			NA	747	ppm	EH	09-JUN-01	180
			NO2/NO3	13	ppm	JHN	06-JUN-01	353.2
			PB	0.005	ppm	MF	25-MAY-01	180
			PH	8.0	pH	RDC	22-MAY-01	150.1
			SE	0.026	ppm	MF	25-MAY-01	180
			SO4=	1431	ppm	JHN	05-JUN-01	28
			TDS	3368	ppm	MC	17-MAY-01	7
			TSS	8.7	ppm	EH	17-MAY-01	160.1
			ZN	0.054	ppm	MF	25-MAY-01	160.2
					ppm		25-MAY-01	6020
L010689-002	11-MAY-01	EPRI-0105-160	AS	0.023	ppm	MF	25-MAY-01	180
			CA	131.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
			CL-	545	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm	CaCO3	RDC	325.2
			COND.	4680	umhos/cm2	BD	22-MAY-01	310.1
			CR	<0.010	ppm	MF	18-MAY-01	28
			CU	<0.025	ppm	MF	25-MAY-01	180
			F-	1.1	ppm	MF	25-MAY-01	6020
			FE	1.4	ppm	EH	18-MAY-01	28
			HCO3	386	ppm	EH	23-MAY-01	340.2
			K	13	ppm	RDC	22-MAY-01	14
			MG	98.	ppm	EH	09-JUN-01	310.1
			NA	828	ppm	EH	09-JUN-01	180
			NO2/NO3	16	ppm	EH	23-MAY-01	180
			PB	0.006	ppm	JHN	06-JUN-01	6010
					ppm	MF	06-JUN-01	180
					ppm		25-MAY-01	353.2
					ppm		25-MAY-01	6020
					ppm			
					ppm			
					ppm			
					ppm			
					ppm			

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	METHOD
L010689-002	11-MAY-01	EPRI-0105-160	PH	7.9	ppm	RDC	22-MAY-01	150.1
			SE	0.024	ppm	MF	25-MAY-01	180
			SO4=	1329	ppm	JHN	05-JUN-01	28
			TDS	3437	ppm	MC	17-MAY-01	7
			TSS	59	ppm	EH	17-MAY-01	160.1
			ZN	0.078	ppm	MF	25-MAY-01	160.2
							25-MAY-01	6020
			AS	0.019	ppm	MF	25-MAY-01	180
			CA	93.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
L010689-003	11-MAY-01	EPRI-0105-157	CL-	555	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm	CaCO3	22-MAY-01	310.1
			COND.	4560	umhos/cm2	BD	18-MAY-01	28
			CR	<0.010	ppm	MF	25-MAY-01	180
			CU	<0.025	ppm	MF	25-MAY-01	6020
			F-	1.7	ppm	EH	18-MAY-01	28
			FE	5.1	ppm	EH	23-MAY-01	180
			HCO3	597	ppm	EH	23-MAY-01	14
			K	9.4	ppm	RDC	22-MAY-01	310.1
			MG	72.	ppm	EH	09-JUN-01	180
			NA	866	ppm	EH	23-MAY-01	180
			NO2/NO3	9.7	ppm	JHN	06-JUN-01	28
			PB	0.005	ppm	MF	25-MAY-01	180
			PH	7.9	ppm	RDC	22-MAY-01	150.1
			SE	0.034	ppm	MF	25-MAY-01	180
			SO4=	1227	ppm	JHN	05-JUN-01	28
			TDS	3208	ppm	MC	17-MAY-01	7
			TSS	188	ppm	EH	17-MAY-01	160.2
			ZN	0.063	ppm	MF	25-MAY-01	180
							25-MAY-01	6020
L010689-004	11-MAY-01	EPRI-0105-149	AS	0.010	ppm	MF	25-MAY-01	180
			CA	70.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
			CL-	414	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm	CaCO3	22-MAY-01	310.1
			COND.	3700	umhos/cm2	BD	18-MAY-01	28
			CR	<0.010	ppm	MF	25-MAY-01	180
			CU	<0.025	ppm	MF	25-MAY-01	6020
			F-	2.9	ppm	EH	18-MAY-01	28
							18-MAY-01	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010589

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-004	11-MAY-01	EPRI-0105-149	FE	0.33	ppm	EH	23-MAY-01	180	6010
			HCO3	342	ppm	RDC	22-MAY-01	14	310.1
			K	8.9	ppm	EH	09-JUN-01	180	6010
			MG	62.	ppm	EH	23-MAY-01	180	6010
			NA	664	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	9.7	ppm	JHN	06-JUN-01	28	353.2
			PB	<0.003	ppm	MF	25-MAY-01	180	6020
			PH	8.0	pH	RDC	22-MAY-01	150.1	
			SE	0.041	ppm	MF	25-MAY-01	180	6020
			SO4=	1145	ppm	JHN	05-JUN-01	28	9036
			TDS	2596	ppm	MC	17-MAY-01	7	160.1
			TSS	16	ppm	EH	17-MAY-01	180.2	
			ZN	0.027	ppm	MF	25-MAY-01	180	6020
			AS	<0.005	ppm	MF	25-MAY-01	180	6020
			CA	<1.0	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	3.3	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm	RDC	22-MAY-01	310.1	
			COND.	32	umhos/cm2	BD	18-MAY-01	28	120.1
L010689-005	11-MAY-01	EPRI-0105-238	CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01	6020	
			F-	<.05	ppm	EH	18-MAY-01	28	340.2
			FE	<0.10	ppm	EH	23-MAY-01	180	6010
			HCO3	<1.0	ppm	RDC	22-MAY-01	14	310.1
			K	<5.0	ppm	EH	09-JUN-01	180	6010
			MG	<1.0	ppm	EH	23-MAY-01	180	6010
			NA	<5.0	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	<.10	ppm	JHN	06-JUN-01	28	353.2
			PB	0.004	ppm	MF	25-MAY-01	180	6020
			PH	4.1	pH	RDC	22-MAY-01	150.1	
			SE	<0.005	ppm	MF	25-MAY-01	180	6020
			SO4=	<2.0	ppm	JHN	05-JUN-01	28	9036
			TDS	<10.	ppm	MC	17-MAY-01	7	160.1
			TSS	<1.0	ppm	EH	17-MAY-01	160.2	
			ZN	0.032	ppm	MF	25-MAY-01	180	6020
			AS	0.20	ppm	EH	23-MAY-01	180	6010
			CA	206.	ppm	EH	23-MAY-01	180	6010
L010689-006	14-MAY-01	EPRI-0105-161	AS	0.20	ppm	EH	23-MAY-01	180	6010
			CA	206.	ppm	EH	23-MAY-01	180	6010

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Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-006	14-MAY-01	EPRI-0105-161	CD	0.023	ppm	MF	25-MAY-01	180	6020
			CL-	607	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	5140	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	0.015	ppm	MF	25-MAY-01	180	6020
			CU	0.32	ppm	MF	25-MAY-01		6020
			F-	1.5	ppm	EH	18-MAY-01	28	340.2
			FE	22.	ppm	EH	23-MAY-01	180	6010
			HCO3	620	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	14	ppm	EH	09-JUN-01	180	6010
			MG	126.	ppm	EH	23-MAY-01	180	6010
			NA	866	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	.27	ppm	JHN	06-JUN-01	28	353.2
			PB	0.69	ppm	MF	25-MAY-01	180	6020
			PH	8.1	pH	RDC	22-MAY-01		150.1
			SE	<0.005	ppm	MF	25-MAY-01	180	6020
			SO4=	1610	ppm	JHN	05-JUN-01	28	9036
			TDS	3771	ppm	MC	17-MAY-01	7	160.1
			TSS	1029	ppm	EH	17-MAY-01		160.2
			ZN	0.31	ppm	MF	25-MAY-01	180	6020
L010689-007	14-MAY-01	EPRI-0105-162	AS	0.031	ppm	MF	25-MAY-01	180	6020
			CA	96.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	712	ppm	JHN	02-JUN-01	28	325.2
			CO3	26.	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	7080	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	0.031	ppm	MF	25-MAY-01		6020
			F-	3.7	ppm	EH	18-MAY-01	28	340.2
			FE	0.61	ppm	EH	23-MAY-01	180	6010
			HCO3	346	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	149	ppm	EH	09-JUN-01	180	6010
			MG	87.	ppm	EH	23-MAY-01	180	6010
			NA	1385	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	14	ppm	JHN	06-JUN-01	28	353.2
			PB	0.010	ppm	MF	25-MAY-01	180	6020
			PH	8.4	pH	RDC	22-MAY-01		150.1
			SE	0.69	ppm	MF	25-MAY-01	180	6020

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Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-007	14-MAY-01	EPRI-0105-162	SO4=	2669	ppm	JHN	05-JUN-01	28	9036
			TDS	5320	ppm	MC	17-MAY-01	7	160.1
			TSS	10	ppm	EH	17-MAY-01		160.2
			ZN	0.066	ppm	MF	25-MAY-01	180	6020
			AS	0.032	ppm	MF	25-MAY-01	180	6020
			CA	82.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	694	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm	CaCO3	22-MAY-01		310.1
			COND.	7080	umhos/cm2	BD	18-MAY-01	28	120.1
L010689-008	14-MAY-01	EPRI-0105-239	CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	0.032	ppm	MF	25-MAY-01		6020
			F-	3.8	ppm	EH	18-MAY-01	28	340.2
			FE	0.38	ppm	EH	23-MAY-01	180	6010
			HCO3	375	ppm	CaCO3	22-MAY-01	14	310.1
			K	153	ppm	EH	09-JUN-01	180	6010
			MG	75.	ppm	EH	23-MAY-01	180	6010
			NA	1405	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	18	ppm	JHN	06-JUN-01	28	353.2
			PB	0.008	ppm	MF	25-MAY-01	180	6020
			PH	8.3	pH	RDC	22-MAY-01		150.1
			SE	0.69	ppm	MF	25-MAY-01	180	6020
			SO4=	2604	ppm	JHN	05-JUN-01	28	9036
			TDS	5391	ppm	MC	17-MAY-01	7	160.1
			TSS	14	ppm	EH	17-MAY-01		160.2
			ZN	0.073	ppm	MF	25-MAY-01	180	6020
			AS	1.1	ppm	EH	23-MAY-01	180	6010
			CA	52.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	381	ppm	JHN	02-JUN-01	28	325.2
L010689-009	14-MAY-01	EPRI-0105-172	CO3	20	ppm	CaCO3	22-MAY-01		310.1
			COND.	3460	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01		6020
			F-	2.3	ppm	EH	18-MAY-01	28	340.2
			FE	0.57	ppm	EH	23-MAY-01	180	6010
			HCO3	315	ppm	CaCO3	22-MAY-01	14	310.1

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Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-009	14-MAY-01	EPRI-0105-172	K	6.5	ppm	EH	09-JUN-01	180	6010
			MG	49.	ppm	EH	23-MAY-01	180	6010
			NA	626	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	7.0	ppm	JHN	06-JUN-01	28	353.2
			PB	0.007	ppm	MF	25-MAY-01	180	6020
			PH	8.5	pH	RDC	22-MAY-01		150.1
			SE	0.043	ppm	MF	25-MAY-01	180	6020
			SO4=	957	ppm	JHN	05-JUN-01	28	9036
			TDS	2412	ppm	MC	17-MAY-01	7	160.1
			TSS	16	ppm	EH	17-MAY-01		160.2
			ZN	0.031	ppm	MF	25-MAY-01	180	6020
			AS	3.9	ppm	EH	23-MAY-01	180	6010
			CA	85.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	357	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	3700	unthos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01		6020
			F-	3.0	ppm	EH	18-MAY-01	28	340.2
L010689-010	14-MAY-01	EPRI-0105-144	FE	0.91	ppm	EH	23-MAY-01	180	6010
			HCO3	230	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	52	ppm	EH	09-JUN-01	180	6010
			MG	40.	ppm	EH	23-MAY-01	180	6010
			NA	575	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	12	ppm	JHN	06-JUN-01	28	353.2
			PB	0.012	ppm	MF	25-MAY-01	180	6020
			PH	7.7	pH	RDC	22-MAY-01		150.1
			SE	0.16	ppm	MF	25-MAY-01	180	6020
			SO4=	1232	ppm	JHN	05-JUN-01	28	9036
			TDS	2543	ppm	MC	17-MAY-01	7	160.1
			TSS	19	ppm	EH	17-MAY-01		160.2
			ZN	0.060	ppm	MF	25-MAY-01	180	6020
			AS	0.013	ppm	MF	25-MAY-01	180	6020
			CA	96.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	426	ppm	JHN	02-JUN-01	28	325.2
L010689-011	14-MAY-01	EPRI-0105-173							

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L010689-011	14-MAY-01	EPRI-0105-173	CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1	
			COND.	3900	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	18-MAY-01	28	340.2
			F-	2.4	ppm	EH	23-MAY-01	180	6010
			FE	0.19	ppm	EH	22-MAY-01	14	310.1
			HCO3	320	ppm CaCO3	RDC	09-JUN-01	180	6010
			K	17	ppm	EH	23-MAY-01	180	6010
			MG	75	ppm	EH	09-JUN-01	180	6010
			NA	649	ppm	EH	06-JUN-01	28	353.2
			NO2/NO3	9.0	ppm	JHN	25-MAY-01	180	6020
			PB	<0.003	ppm	MF	22-MAY-01	180	150.1
			PH	8.1	pH	RDC	25-MAY-01	180	6020
			SE	0.072	ppm	MF	05-JUN-01	28	9036
			SO4=	1337	ppm	JHN	17-MAY-01	7	160.1
			TDS	2756	ppm	MC	17-MAY-01	180	6020
			TSS	8.2	ppm	EH	25-MAY-01	180	6020
			ZN	0.026	ppm	MF	25-MAY-01	180	6020
			AS	0.009	ppm	MF	25-MAY-01	180	6020
			CA	202	ppm	EH	23-MAY-01	180	6010
L010689-012	14-MAY-01	EPRI-0105-148	CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	609	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1	
			COND.	4610	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01	180	6020
			F-	2.3	ppm	EH	18-MAY-01	28	340.2
			FE	0.11	ppm	EH	23-MAY-01	180	6010
			HCO3	324	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	27	ppm	EH	09-JUN-01	180	6010
			MG	114	ppm	EH	23-MAY-01	180	6010
			NA	700	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	9.8	ppm	JHN	06-JUN-01	28	353.2
			PB	<0.003	ppm	MF	25-MAY-01	180	6020
			PH	8.0	pH	RDC	22-MAY-01	180	150.1
			SE	0.11	ppm	MF	25-MAY-01	180	6020
			SO4=	1563	ppm	JHN	05-JUN-01	28	9036
			TDS	3449	ppm	MC	17-MAY-01	7	160.1

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Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	TEST METHOD
L010689-012	14-MAY-01	EPRI-0105-148	TSS	7.3	ppm	EH	17-MAY-01	160.2	
			ZN	0.022	ppm	MF	25-MAY-01	180	6020
			AS	0.006	ppm	MF	25-MAY-01	180	6020
			CA	47.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	304	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm	CaCO3	22-MAY-01	180	310.1
			COND.	2650	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01	180	6020
			F-	2.6	ppm	EH	18-MAY-01	28	340.2
			FE	0.70	ppm	EH	23-MAY-01	180	6010
			HCO3	288	ppm	CaCO3	22-MAY-01	14	310.1
			K	8.9	ppm	EH	09-JUN-01	180	6010
			MG	34.	ppm	EH	23-MAY-01	180	6010
			NA	469	ppm	JHN	06-JUN-01	28	353.2
			NO2/NO3	6.3	ppm	MF	25-MAY-01	180	6020
			PB	0.004	ppm	RDC	22-MAY-01	150.1	
			PH	8.1	pH	MF	25-MAY-01	180	6020
			SE	0.027	ppm	JHN	05-JUN-01	28	9036
			SO4=	680	ppm	MC	17-MAY-01	7	160.1
			TDS	1767	ppm	EH	17-MAY-01	160.2	
			TSS	20	ppm	MF	25-MAY-01	180	6020
			ZN	<0.020	ppm	MF	25-MAY-01	180	6020
			AS	0.008	ppm	MF	25-MAY-01	180	6020
			CA	88.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	636	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm	CaCO3	22-MAY-01	180	310.1
			COND.	4780	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01	180	6020
			F-	4.6	ppm	EH	18-MAY-01	28	340.2
			FE	3.2	ppm	EH	23-MAY-01	180	6010
			HCO3	375	ppm	CaCO3	22-MAY-01	14	310.1
			K	9.2	ppm	RDC	09-JUN-01	180	6010
			MG	71.	ppm	EH	23-MAY-01	180	6010

L010689-014 14-MAY-01 EPRI-0105-145

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Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-014	14-MAY-01	EPRI-0105-145	NA	883	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	11	ppm	JHN	06-JUN-01	28	353.2
			PB	<0.003	ppm	MF	25-MAY-01	180	6020
			PH	8.1	pH	RDC	22-MAY-01		150.1
			SE	0.092	ppm	MF	25-MAY-01	180	6020
			SO4=	1159	ppm	JHN	05-JUN-01	28	9036
			TDS	3309	ppm	MC	17-MAY-01	7	160.1
			TSS	60	ppm	EH	17-MAY-01		160.2
			ZN	<0.020	ppm	MF	25-MAY-01	180	6020
			AS	2.1	ppm	EH	23-MAY-01	180	6010
			CA	118.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	323	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
L010689-015	14-MAY-01	EPRI-0105-151	COND.	3180	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01		6020
			F-	3.0	ppm	EH	18-MAY-01	28	340.2
			FE	0.12	ppm	EH	23-MAY-01	180	6010
			HCO3	300	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	29	ppm	EH	09-JUN-01	180	6010
			MG	58.	ppm	EH	23-MAY-01	180	6010
			NA	487	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	8.8	ppm	JHN	06-JUN-01	28	353.2
			PB	0.004	ppm	MF	25-MAY-01	180	6020
			PH	7.9	pH	RDC	22-MAY-01		150.1
			SE	0.13	ppm	MF	25-MAY-01	180	6020
			SO4=	1280	ppm	JHN	05-JUN-01	28	9036
L010689-016	10-MAY-01	EPRI-0105-121	TDS	2259	ppm	MC	17-MAY-01	7	160.1
			TSS	2.8	ppm	EH	17-MAY-01		160.2
			ZN	<0.020	ppm	MF	25-MAY-01	180	6020
			AS	32.	ppm	EH	23-MAY-01	180	6010
			CA	336.	ppm	EH	23-MAY-01	180	6010
			CD	0.47	ppm	MF	25-MAY-01	180	6020
			CL-	581	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	7090	umhos/cm2	BD	18-MAY-01	28	120.1

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Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L010689-016	10-MAY-01	EPRI-0105-121	CR	<0.020*	ppm	MF	25-MAY-01	180 6020
			CU	0.034	ppm	MF	25-MAY-01	6020
			F-	5.0	ppm	EH	18-MAY-01	28 340.2
			FE	39.	ppm	EH	23-MAY-01	180 6010
			HCO3	450	ppm	RDC	22-MAY-01	14 310.1
			K	67	ppm	EH	09-JUN-01	180 6010
			MG	104.	ppm	EH	23-MAY-01	180 6010
			NA	1108	ppm	EH	09-JUN-01	180 6010
			NO2/NO3	14	ppm	JHN	06-JUN-01	28 353.2
			PB	0.019	ppm	MF	25-MAY-01	180 6020
			PH	7.3	PH	RDC	22-MAY-01	150.1
			SE	0.66	ppm	MF	25-MAY-01	180 6020
			SO4=	2778	ppm	JHN	05-JUN-01	28 9036
			TDS	5280	ppm	MC	16-MAY-01	7 160.1
			TSS	1432	ppm	EH	17-MAY-01	160.2
			ZN	2.2	ppm	EH	23-MAY-01	180 6010
L010689-017	10-MAY-01	EPRI-0105-111	AS	5.2	ppm	EH	23-MAY-01	180 6010
			CA	114.	ppm	EH	23-MAY-01	180 6010
			CD	0.012	ppm	MF	25-MAY-01	180 6020
			CL-	585	ppm	JHN	02-JUN-01	28 325.2
			CO3	<1.0	ppm	RDC	22-MAY-01	310.1
			COND.	5320	umhos/cm2	BD	18-MAY-01	28 120.1
			CR	<0.010	ppm	MF	25-MAY-01	180 6020
			CU	0.18	ppm	MF	25-MAY-01	6020
			F-	2.8	ppm	EH	18-MAY-01	28 340.2
			FE	6.5	ppm	EH	23-MAY-01	180 6010
			HCO3	440	ppm	RDC	22-MAY-01	14 310.1
			K	51	ppm	EH	09-JUN-01	180 6010
			MG	69.	ppm	EH	23-MAY-01	180 6010
			NA	663	ppm	EH	09-JUN-01	180 6010
			NO2/NO3	20	ppm	JHN	06-JUN-01	28 353.2
			PB	0.12	ppm	MF	25-MAY-01	180 6020
			PH	7.9	PH	RDC	22-MAY-01	150.1
			SE	0.005	ppm	MF	25-MAY-01	180 6020
			SO4=	1706	ppm	JHN	05-JUN-01	28 9036
			TDS	3238	ppm	MC	16-MAY-01	7 160.1
			TSS	280	ppm	EH	17-MAY-01	160.2
			ZN	0.11	ppm	MF	25-MAY-01	180 6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-018	10-MAY-01	EPRI-0105-124	AS	3.1	ppm	EH	23-MAY-01	180	6010
			CA	772.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	477	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1	
			COND.	3790	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	0.15	ppm	EH	23-MAY-01	180	6010
			CU	0.15	ppm	EH	23-MAY-01	180	6010
			F-	3.1	ppm	EH	18-MAY-01	28	340.2
			FE	235.	ppm	EH	23-MAY-01	180	6010
			HCO3	1754	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	55	ppm	EH	09-JUN-01	180	6010
			MG	107.	ppm	EH	23-MAY-01	180	6010
			NA	647	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	1.0	ppm	JHN	06-JUN-01	28	353.2
			PB	0.099	ppm	MF	25-MAY-01	180	6020
			PH	7.8	pH	RDC	22-MAY-01	150.1	
			SE	0.028	ppm	MF	25-MAY-01	180	6020
			SO4=	1061	ppm	JHN	05-JUN-01	28	9036
			TDS	2669	ppm	MC	16-MAY-01	7	160.1
			TSS	12775	ppm	EH	17-MAY-01	160.2	
			ZN	0.57	ppm	EH	23-MAY-01	180	6010
L010689-019	10-MAY-01	EPRI-0105-114	AS	0.26	ppm	MF	25-MAY-01	180	6020
			CA	229.	ppm	EH	23-MAY-01	180	6010
			CD	0.34	ppm	MF	25-MAY-01	180	6020
			CL-	583	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1	
			COND.	4900	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01	180	6020
			F-	1.8	ppm	EH	18-MAY-01	28	340.2
			FE	0.76	ppm	EH	23-MAY-01	180	6010
			HCO3	244	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	63	ppm	EH	09-JUN-01	180	6010
			MG	74.	ppm	EH	23-MAY-01	180	6010
			NA	782	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	28	ppm	JHN	06-JUN-01	28	353.2
			PB	0.006	ppm	MF	25-MAY-01	180	6020

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L010689-019	10-MAY-01	EPRI-0105-114	PH	7.8	pH	RDC	22-MAY-01	150.1	
			SE	1.1	ppm	MF	25-MAY-01	180	6020
			SO4=	1834	ppm	JHN	05-JUN-01	28	9036
			TDS	3732	ppm	MC	16-MAY-01	7	160.1
			TSS	23	ppm	EH	17-MAY-01		160.2
			ZN	0.95	ppm	MF	25-MAY-01	180	6020
			AS	0.28	ppm	EH	23-MAY-01	180	6010
			CA	225.	ppm	EH	23-MAY-01	180	6010
			CD	0.35	ppm	MF	25-MAY-01	180	6020
			CL-	585	ppm	JHN	02-JUN-01	28	325.2
L010689-020	10-MAY-01	EPRI-0105-234	CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1	
			COND.	4880	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	25-MAY-01	180	6020
			CU	<0.025	ppm	MF	25-MAY-01		6020
			F-	1.8	ppm	EH	18-MAY-01	28	340.2
			FE	0.76	ppm	EH	23-MAY-01	180	6010
			HCO3	238	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	58	ppm	EH	09-JUN-01	180	6010
			MG	73.	ppm	EH	23-MAY-01	180	6010
			NA	754	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	29	ppm	JHN	07-JUN-01	28	353.2
			PB	0.006	ppm	MF	25-MAY-01	180	6020
			PH	7.8	pH	RDC	22-MAY-01		150.1
			SE	1.1	ppm	MF	25-MAY-01	180	6020
			SO4=	1782	ppm	JHN	05-JUN-01	28	9036
			TDS	3754	ppm	MC	16-MAY-01	7	160.1
			TSS	21	ppm	EH	17-MAY-01		160.2
			ZN	0.98	ppm	MF	25-MAY-01	180	6020
			AS	0.34	ppm	EH	23-MAY-01	180	6010
			CA	721.	ppm	EH	23-MAY-01	180	6010
L010689-021	10-MAY-01	EPRI-0105-119	CD	0.038	ppm	MF	25-MAY-01	180	6020
			CL-	3759	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	12220	umhos/cm2	BD	16-MAY-01	28	120.1
			CR	0.99	ppm	EH	23-MAY-01	180	6010
			CU	0.18	ppm	MF	08-JUN-01		6020
			F-	.80	ppm	EH	18-MAY-01	28	340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-021	10-MAY-01	EPRI-0105-119	FE	2.6	ppm	EH	23-MAY-01	180	6010
			HCO3	176	ppm	RDC	22-MAY-01	14	310.1
			K	50	ppm	EH	09-JUN-01	180	6010
			MG	536.	ppm	EH	23-MAY-01	180	6010
			NA	1260	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	170	ppm	JHN	07-JUN-01	28	353.2
			PE	0.011	ppm	MF	25-MAY-01	180	6020
			PH	7.3	pH	RDC	22-MAY-01	150.1	
			SE	0.22	ppm	MF	25-MAY-01	180	6020
			SO4=	2318	ppm	JHN	05-JUN-01	28	9036
			TDS	9283	ppm	MC	16-MAY-01	7	160.1
			TSS	28	ppm	EH	17-MAY-01		160.2
			ZN	0.49	ppm	MF	25-MAY-01	180	6020
			AS	1.7	ppm	EH	23-MAY-01	180	6010
			CA	502.	ppm	EH	23-MAY-01	180	6010
			CD	0.45	ppm	MF	25-MAY-01	180	6020
			CL-	1559	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm	RDC	22-MAY-01		310.1
			COND.	11720	umhos/cm2	BD	18-MAY-01	28	120.1
L010689-022	10-MAY-01	EPRI-0105-120	CR	.32	ppm	EH	23-MAY-01	180	6010
			CU	0.57	ppm	MF	08-JUN-01		6020
			F-	5.1	ppm	EH	18-MAY-01	28	340.2
			FE	11.	ppm	EH	23-MAY-01	180	6010
			HCO3	606	ppm	RDC	22-MAY-01	14	310.1
			K	20	ppm	EH	09-JUN-01	180	6010
			MG	311.	ppm	EH	23-MAY-01	180	6010
			NA	2097	ppm	EH	15-JUN-01	180	6010
			NO2/NO3	83	ppm	JHN	07-JUN-01	28	353.2
			PB	1.6	ppm	MF	25-MAY-01	180	6020
			PH	7.3	pH	RDC	22-MAY-01	150.1	
			SE	0.17	ppm	MF	25-MAY-01	180	6020
			SO4=	4915	ppm	JHN	05-JUN-01	28	9036
			TDS	10251	ppm	MC	16-MAY-01	7	160.1
			TSS	28	ppm	EH	17-MAY-01		160.2
			ZN	3.5	ppm	EH	23-MAY-01	180	6010
			AS	17.	ppm	EH	23-MAY-01	180	6010
			CA	498.	ppm	EH	23-MAY-01	180	6010
L010689-023	10-MAY-01	EPRI-0105-118							

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD
L010689-023	10-MAY-01	EPRI-0105-118	CD	0.038	ppm	MF	25-MAY-01	180
			CL-	815	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1
			COND.	9820	umhos/cm2	BD	18-MAY-01	28
			CR	<0.020*	ppm	MF	08-JUN-01	180
			CU	<0.025	ppm	MF	08-JUN-01	6020
			F-	5.6	ppm	EH	18-MAY-01	28
			FE	1.6	ppm	EH	18-MAY-01	340.2
			HCO3	628	ppm CaCO3	RDC	23-MAY-01	180
			K	269	ppm	EH	22-MAY-01	14
			MG	143.	ppm	EH	09-JUN-01	180
			NA	1394	ppm	EH	23-MAY-01	6010
			NO2/NO3	33	ppm	JHN	09-JUN-01	180
			PB	0.003	ppm	MF	07-JUN-01	28
			PH	7.4	pH	RDC	25-MAY-01	6020
			SE	0.089	ppm	EH	22-MAY-01	150.1
			SO4=	3964	ppm	MF	25-MAY-01	180
			TDS	7947	ppm	JHN	05-JUN-01	28
			TSS	16	ppm	MC	09-JUN-01	9036
			ZN	11.	ppm	EH	16-MAY-01	7
					ppm	EH	17-MAY-01	160.1
					ppm	EH	23-MAY-01	160.2
					ppm	EH	23-MAY-01	6010
L010689-024	10-MAY-01	EPRI-0105-122	AS	37.	ppm	EH	23-MAY-01	180
			CA	401.	ppm	EH	23-MAY-01	6010
			CD	0.67	ppm	MF	23-MAY-01	180
			CL-	970	ppm	JHN	25-MAY-01	6020
			CO3	<1.0	ppm CaCO3	RDC	02-JUN-01	28
			COND.	8620	umhos/cm2	BD	22-MAY-01	310.1
			CR	<0.020*	ppm	MF	18-MAY-01	28
			CU	0.067	ppm	MF	18-JUN-01	180
			F-	8.8	ppm	EH	08-JUN-01	6020
			FE	21.	ppm	EH	18-MAY-01	28
			HCO3	780	ppm CaCO3	RDC	23-MAY-01	180
			K	262	ppm	EH	22-MAY-01	14
			MG	191.	ppm	EH	09-JUN-01	180
			NA	1260	ppm	EH	23-MAY-01	180
			NO2/NO3	16	ppm	JHN	09-JUN-01	6010
			PB	0.040	ppm	MF	07-JUN-01	28
			PH	7.3	ppm	EH	353.2	
			SE	0.11	pH	RDC	25-MAY-01	180
					ppm	MF	22-MAY-01	150.1
					ppm	MF	25-MAY-01	6020
					ppm	MF	25-MAY-01	180
					ppm	MF	25-MAY-01	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L010689-024	10-MAY-01	EPRI-0105-122	SO4=	4700	ppm	JHN	05-JUN-01	28	9036
			TDS	6878	ppm	MC	16-MAY-01	7	160.1
			TSS	26	ppm	EH	17-MAY-01		160.2
			ZN	10.	ppm	EH	23-MAY-01	180	6010
			AS	<0.005	ppm	MF	25-MAY-01	180	6020
			CA	<1.0	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	<1.0	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	<5	umhos/cm2	BD	18-MAY-01	28	120.1
L010689-025	10-MAY-01	EPRI-0105-235	CR	<0.010	ppm	MF	08-JUN-01	180	6020
			CU	<0.025	ppm	MF	08-JUN-01		6020
			F-	<.05	ppm	EH	18-MAY-01	28	340.2
			FE	<0.10	ppm	EH	23-MAY-01	180	6010
			HCO3	<1.0	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	<5.0	ppm	EH	09-JUN-01	180	6010
			MG	<1.0	ppm	EH	23-MAY-01	180	6010
			NA	<5.0	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	<.10	ppm	JHN	07-JUN-01	28	353.2
			PB	<0.003	ppm	MF	25-MAY-01	180	6020
			PH	5.2	PH	RDC	22-MAY-01		150.1
			SE	<0.005	ppm	MF	25-MAY-01	180	6020
			SO4=	<2.0	ppm	JHN	05-JUN-01	28	9036
			TDS	<10	ppm	MC	16-MAY-01	7	160.1
			TSS	<1.0	ppm	EH	17-MAY-01		160.2
			ZN	<0.020	ppm	MF	25-MAY-01	180	6020
			AS	63.	ppm	EH	23-MAY-01	180	6010
			CA	652.	ppm	EH	23-MAY-01	180	6010
			CD	2.3	ppm	MF	25-MAY-01	180	6020
			CL-	1085	ppm	JHN	02-JUN-01	28	325.2
L010689-026	11-MAY-01	EPRI-0105-123	CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	9520	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.020*	ppm	MF	08-JUN-01	180	6020
			CU	0.17	ppm	MF	08-JUN-01		6020
			F-	13	ppm	EH	18-MAY-01	28	340.2
			FE	89.	ppm	EH	23-MAY-01	180	6010
			HCO3	890	ppm CaCO3	RDC	22-MAY-01	14	310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	TEST METHOD
L010689-026	11-MAY-01	EPRI-0105-123	K	184	ppm	EH	09-JUN-01	180 6010
			MG	290.	ppm	EH	23-MAY-01	180 6010
			NA	1266	ppm	EH	09-JUN-01	180 6010
			NO2/NO3	.27	ppm	JHN	07-JUN-01	28 353.2
			PB	0.44	ppm	MF	25-MAY-01	180 6020
			PH	7.3	pH	RDC	22-MAY-01	150.1
			SE	0.36	ppm	MF	25-MAY-01	180 6020
			SO4=	3543	ppm	JHN	05-JUN-01	28 9036
			TDS	7696	ppm	MC	17-MAY-01	7 160.1
			TSS	178	ppm	EH	17-MAY-01	160.2
			ZN	177.	ppm	EH	23-MAY-01	180 6010
			AS	0.043	ppm	MF	25-MAY-01	180 6020
			CA	181.	ppm	EH	23-MAY-01	180 6010
			CD	0.008	ppm	MF	25-MAY-01	180 6020
			CL-	441	ppm	JHN	02-JUN-01	28 325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1
			COND.	3020	umhos/cm2	BD	18-MAY-01	28 120.1
			CR	<0.010	ppm	MF	08-JUN-01	180 6020
			CU	<0.025	ppm	MF	08-JUN-01	6020
			F-	.65	ppm	EH	18-MAY-01	28 340.2
			FE	<0.10	ppm	EH	23-MAY-01	180 6010
			HCO3	245	ppm	EH	22-MAY-01	14 310.1
			K	6.6	ppm CaCO3	RDC	09-JUN-01	180 6010
L010689-027	11-MAY-01	EPRI-0105-150	MG	93.	ppm	EH	23-MAY-01	180 6010
			NA	307	ppm	EH	09-JUN-01	180 6010
			NO2/NO3	12	ppm	JHN	07-JUN-01	28 353.2
			PB	0.020	ppm	MF	25-MAY-01	180 6020
			PH	8.1	pH	RDC	22-MAY-01	150.1
			SE	0.019	ppm	MF	25-MAY-01	180 6020
			SO4=	967	ppm	JHN	05-JUN-01	28 9036
			TDS	2271	ppm	MC	17-MAY-01	7 160.1
			TSS	<1.0	ppm	EH	18-MAY-01	160.2
			ZN	0.074	ppm	MF	25-MAY-01	180 6020
			AS	0.041	ppm	MF	25-MAY-01	180 6020
			CA	184.	ppm	EH	23-MAY-01	180 6010
			CD	0.008	ppm	MF	25-MAY-01	180 6020
			CL-	373	ppm	JHN	02-JUN-01	28 325.2
L010689-028	11-MAY-01	EPRI-0105-236	AS	0.041	ppm	MF	25-MAY-01	180 6020
			CA	184.	ppm	EH	23-MAY-01	180 6010

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L010689-028	11-MAY-01	EPRI-0105-236	CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1	
			COND.	3020	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	08-JUN-01	180	6020
			CU	<0.025	ppm	MF	08-JUN-01	6020	
			F-	.66	ppm	EH	18-MAY-01	28	340.2
			FE	<0.10	ppm	EH	23-MAY-01	180	6010
			HCO3	248	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	6.8	ppm	EH	09-JUN-01	180	6010
			MG	94.	ppm	EH	23-MAY-01	180	6010
			NA	317	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	11	ppm	JHN	07-JUN-01	28	353.2
			PB	0.019	ppm	MF	25-MAY-01	180	6020
			PH	7.9	pH	RDC	22-MAY-01	150.1	
			SE	0.019	ppm	MF	25-MAY-01	180	6020
			SO4=	873	ppm	JHN	05-JUN-01	28	9036
			TDS	2270	ppm	MC	17-MAY-01	7	160.1
			TSS	<1.0	ppm	EH	18-MAY-01	160.2	
			ZN	0.072	ppm	MF	25-MAY-01	180	6020
L010689-029	11-MAY-01	EPRI-0105-237	AS	0.011	ppm	MF	25-MAY-01	180	6020
			CA	205.	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	525	ppm	JHN	02-JUN-01	28	325.2
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1	
			COND.	3820	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	08-JUN-01	180	6020
			CU	<0.025	ppm	MF	08-JUN-01	6020	
			F-	.66	ppm	EH	18-MAY-01	28	340.2
			FE	8.6	ppm	EH	23-MAY-01	180	6010
			HCO3	380	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	15	ppm	EH	09-JUN-01	180	6010
			MG	109.	ppm	EH	23-MAY-01	180	6010
			NA	491	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	13	ppm	JHN	07-JUN-01	28	353.2
			PB	0.007	ppm	MF	25-MAY-01	180	6020
			PH	7.9	pH	RDC	22-MAY-01	150.1	
			SE	0.028	ppm	MF	25-MAY-01	180	6020
			SO4=	1329	ppm	JHN	05-JUN-01	28	9036
			TDS	2857	ppm	MC	17-MAY-01	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L010689-029	11-MAY-01	EPRI-0105-237	TSS	384	ppm	EH	18-MAY-01	160.2
			ZN	0.063	ppm	MF	25-MAY-01	6020
L010689-030	11-MAY-01	EPRI-0105-159	AS	0.013	ppm	MF	25-MAY-01	180
			CA	34.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
			CL-	399	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm	RDC	22-MAY-01	325.2
			COND.	3140	umhos/cm2	BD	18-MAY-01	310.1
			CR	<0.010	ppm	MF	08-JUN-01	180
			CU	<0.025	ppm	MF	08-JUN-01	6020
			F-	3.8	ppm	MF	18-MAY-01	28
			FE	0.14	ppm	EH	18-MAY-01	340.2
			HCO3	304	ppm	EH	23-MAY-01	180
			K	<5.0	ppm	RDC	22-MAY-01	14
			MG	58	ppm	EH	23-MAY-01	310.1
			NA	531	ppm	EH	09-JUN-01	180
			NO2/NO3	10	ppm	EH	23-MAY-01	6010
			PB	<0.003	ppm	EH	09-JUN-01	180
			PH	8.3	ppm	EH	07-JUN-01	28
			SE	0.026	ppm	JHN	25-MAY-01	180
			SO4=	811	ppm	RDC	22-MAY-01	150.1
			TDS	2109	ppm	MF	25-MAY-01	180
			TSS	1.4	ppm	MF	25-MAY-01	180
			ZN	<0.020	ppm	MF	25-MAY-01	180
L010689-031	14-MAY-01	EPRI-0105-147	AS	0.33	ppm	MF	25-MAY-01	180
			CA	157.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
			CL-	125	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm	RDC	22-MAY-01	310.1
			COND.	2720	umhos/cm2	BD	18-MAY-01	120.1
			CR	<0.010	ppm	MF	08-JUN-01	180
			CU	<0.025	ppm	MF	08-JUN-01	6020
			F-	1.6	ppm	MF	18-MAY-01	28
			FE	0.61	ppm	EH	18-MAY-01	340.2
			HCO3	390	ppm	RDC	23-MAY-01	180
			K	15	ppm	EH	22-MAY-01	14
			MG	80.	ppm	EH	09-JUN-01	180
					ppm	EH	23-MAY-01	6010
					ppm	EH		

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L010689-031	14-MAY-01	EPRI-0105-147	NA	308	ppm	EH	09-JUN-01	180
			NO2/NO3	11	ppm	JHN	07-JUN-01	28
			PB	0.003	ppm	MF	25-MAY-01	180
			PH	7.8	pH	RDC	22-MAY-01	150.1
			SE	0.29	ppm	MF	25-MAY-01	180
			SO4=	986	ppm	JHN	05-JUN-01	28
			TDS	2119	ppm	MC	17-MAY-01	7
			TSS	17	ppm	EH	18-MAY-01	160.2
			ZN	0.047	ppm	MF	25-MAY-01	180
								6020
			AS	0.015	ppm	MF	25-MAY-01	180
			CA	166.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
			CL-	510	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1
			COND.	5200	umhos/cm2	BD	18-MAY-01	28
			CR	<0.010	ppm	MF	19-JUN-01	180
L010689-032	14-MAY-01	EPRI-0105-146	CU	<0.025	ppm	MF	19-JUN-01	6020
			F-	1.2	ppm	EH	18-MAY-01	28
			FE	0.79	ppm	EH	23-MAY-01	180
			HCO3	435	ppm	RDC	22-MAY-01	14
			K	18	ppm CaCO3	EH	09-JUN-01	180
			MG	74.	ppm	EH	23-MAY-01	180
			NA	887	ppm	EH	09-JUN-01	180
			NO2/NO3	1.4	ppm	JHN	07-JUN-01	28
			PB	<0.003	ppm	MF	25-MAY-01	180
			PH	7.9	pH	RDC	22-MAY-01	150.1
			SE	0.007	ppm	MF	25-MAY-01	180
			SO4=	1734	ppm	JHN	05-JUN-01	28
			TDS	3967	ppm	MC	17-MAY-01	7
			TSS	40	ppm	EH	18-MAY-01	160.2
			ZN	0.027	ppm	MF	25-MAY-01	180
								6020
L010689-033	14-MAY-01	EPRI-0105-240	AS	2.1	ppm	EH	23-MAY-01	180
			CA	109.	ppm	EH	23-MAY-01	180
			CD	<0.005	ppm	MF	25-MAY-01	180
			CL-	277	ppm	JHN	02-JUN-01	28
			CO3	<1.0	ppm CaCO3	RDC	22-MAY-01	310.1
			COND.	3200	umhos/cm2	BD	18-MAY-01	28
								120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010689

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010689-033	14-MAY-01	EPRI-0105-240	CR	<0.010	ppm	MF	19-JUN-01	180	6020
			CU	<0.025	ppm	MF	19-JUN-01		6020
			F-	3.5	ppm	EH	18-MAY-01	28	340.2
			FE	1.1	ppm	EH	23-MAY-01	180	6010
			HCO3	310	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	41	ppm	EH	09-JUN-01	180	6010
			MG	49	ppm	EH	23-MAY-01	180	6010
			NA	470	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	6.7	ppm	JHN	07-JUN-01	28	353.2
			PB	<0.003	ppm	MF	25-MAY-01	180	6020
			PH	8.0	pH	RDC	22-MAY-01		150.1
			SE	0.19	ppm	MF	25-MAY-01	180	6020
			SO4=	989	ppm	JHN	05-JUN-01	28	9036
			TDS	2294	ppm	MC	17-MAY-01	7	160.1
			TSS	25	ppm	EH	18-MAY-01		160.2
			ZN	<0.020	ppm	MF	25-MAY-01	180	6020
			AS	<0.005	ppm	MF	25-MAY-01	180	6020
			CA	<1.0	ppm	EH	23-MAY-01	180	6010
			CD	<0.005	ppm	MF	25-MAY-01	180	6020
			CL-	<1.0	ppm	JHN	02-JUN-01	28	325.2
L010689-034	14-MAY-01	EPRI-0105-241	CO3	<1.0	ppm CaCO3	RDC	22-MAY-01		310.1
			COND.	<5	umhos/cm2	BD	18-MAY-01	28	120.1
			CR	<0.010	ppm	MF	19-JUN-01	180	6020
			CU	<0.025	ppm	MF	19-JUN-01		6020
			F-	<0.05	ppm	MF	18-MAY-01	28	340.2
			FE	<0.10	ppm	EH	23-MAY-01	180	6010
			HCO3	<1.0	ppm CaCO3	RDC	22-MAY-01	14	310.1
			K	<5.0	ppm	EH	09-JUN-01	180	6010
			MG	<1.0	ppm	EH	23-MAY-01	180	6010
			NA	<5.0	ppm	EH	09-JUN-01	180	6010
			NO2/NO3	<1.0	ppm	JHN	07-JUN-01	28	353.2
			PB	<0.003	ppm	MF	25-MAY-01	180	6020
			PH	5.5	pH	RDC	22-MAY-01		150.1
			SE	<0.005	ppm	MF	25-MAY-01	180	6020
			SO4=	<2.0	ppm	JHN	05-JUN-01	28	9036
			TDS	<10	ppm	MC	17-MAY-01	7	160.1
			TSS	<1.0	ppm	EH	18-MAY-01		160.2
			ZN	<0.020	ppm	MF	25-MAY-01	180	6020

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010689

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 Method for totals --- 3010 and 6020.
Chromium reporting limit elevated for sample # -016, -023, -024 and -026 due to matrix effect.

[Signature]
Approved

[Signature]
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010482

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	WTD	METHOD
WG010482-1		Matrix Spike	AS	90	%Recovery	MF	25-MAY-01	6020	
			CD	98	%Recovery	MF	25-MAY-01	6020	
			CL-	119	%Recovery	JHN	02-JUN-01	325.2	
			CR	99	%Recovery	EH	23-MAY-01	6010	
			CU	79	%Recovery	MF	25-MAY-01	6020	
			FE	103	%Recovery	EH	23-MAY-01	6010	
			K	107	%Recovery	EH	09-JUN-01	6010	
			NA	SR-4XSA	%Recovery	EH	09-JUN-01	6010	
			NO2/NO3	106	%Recovery	JHN	06-JUN-01	353.2	
			PB	92	%Recovery	MF	25-MAY-01	6020	
			SE	91	%Recovery	MF	25-MAY-01	6020	
			SO4=	99	%Recovery	JHN	05-JUN-01	9036	
			ZN	83	%Recovery	MF	25-MAY-01	6020	
			AS	<0.005	ppm	MF	25-MAY-01	6020	
			CA	<1.0	ppm	EH	23-MAY-01	6010	
			CD	<0.005	ppm	MF	25-MAY-01	6020	
			CL-	<1.0	ppm	JHN	02-JUN-01	325.2	
WG010482-2		Prep Blank	COND.	<5	umhos/cm2	BD	18-MAY-01	120.1	
			CR	<0.010	ppm	EH	23-MAY-01	6010	
			CU	<0.025	ppm	MF	25-MAY-01	6020	
			F-	<.05	ppm	EH	18-MAY-01	340.2	
			FE	<0.10	ppm	EH	23-MAY-01	6010	
			HCO3	<1.0	ppm	RDC	22-MAY-01	310.1	
			K	<5.0	ppm	EH	09-JUN-01	6010	
			MG	<1.0	ppm	EH	23-MAY-01	6010	
			NA	<5.0	ppm	EH	09-JUN-01	353.2	
			NO2/NO3	<.10	ppm	JHN	06-JUN-01	6020	
			PB	<0.003	ppm	MF	25-MAY-01	6020	
			SE	<0.005	ppm	MF	25-MAY-01	6020	
			SO4=	<2.0	ppm	MF	05-JUN-01	9036	
			TDS	<1.0	ppm	MC	16-MAY-01	160.1	
			TSS	<1.0	ppm	EH	16-MAY-01	160.2	
			ZN	<0.020	ppm	MF	25-MAY-01	6020	
			AS	98	%Recovery	MF	25-MAY-01	6020	
WG010482-3		Lab Control Sample	CA	103	%Recovery	EH	23-MAY-01	6010	
			CD	104	%Recovery	MF	25-MAY-01	6020	
			CL-	106	%Recovery	JHN	02-JUN-01	325.2	
					%Recovery	JHN			

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: WG010482

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	RECD	
WG010482-3		Lab Control Sample	COND.	99	\$ Recovery	BD	18-MAY-01	120.1	
			CR	100	\$ Recovery	EH	23-MAY-01	6010	
			CU	93	\$ Recovery	MF	25-MAY-01	6020	
			F-	96	\$ Recovery	EH	18-MAY-01	340.2	
			FE	105	\$ Recovery	EH	23-MAY-01	6010	
			HCO3	99	\$ Recovery	RDC	22-MAY-01	310.1	
			K	90	\$ Recovery	EH	09-JUN-01	6010	
			MG	106	\$ Recovery	EH	23-MAY-01	6010	
			NA	93	\$ Recovery	EH	09-JUN-01	6010	
			NO2/NO3	105	\$ Recovery	JHN	06-JUN-01	353.2	
			PB	100	\$ Recovery	MF	25-MAY-01	6020	
			PH	98	\$ Recovery	EH	23-MAY-01	150.1	
			SE	102	\$ Recovery	MF	25-MAY-01	6020	
			SO4=	100	\$ Recovery	JHN	05-JUN-01	9036	
			TDS	91	\$ Recovery	MC	16-MAY-01	160.1	
			TSS	99	\$ Recovery	EH	16-MAY-01	160.2	
			ZN	95	\$ Recovery	MF	25-MAY-01	6020	
WG010482-4		Duplicate	CL-	3.1	\$ RPD	JHN	02-JUN-01	325.2	
			COND.	<1	\$ RPD	BD	18-MAY-01	120.1	
			F-	<1.0	\$ RPD	EH	18-MAY-01	340.2	
			HCO3	<1.0	\$ RPD	RDC	22-MAY-01	310.1	
			NA	<1	\$ RPD	EH	09-JUN-01	6010	
			NO2/NO3	2.0	\$ RPD	JHN	06-JUN-01	353.2	
			PH	<1.0	\$ RPD	EH	23-MAY-01	150.1	
			SO4=	5.8	\$ RPD	JHN	05-JUN-01	9036	
			TDS	<1	\$ RPD	MC	16-MAY-01	160.1	
			TSS	3.3	\$ RPD	EH	16-MAY-01	160.2	
			AS	1.8	\$ RPD	MF	25-MAY-01	6020	
			CA	2.3	\$ RPD	EH	23-MAY-01	6010	
			CD	2.4	\$ RPD	MF	25-MAY-01	6020	
			CR	2.3	\$ RPD	EH	23-MAY-01	6010	
WG010482-5		Matrix Spike Duplicate	CU	<1	\$ RPD	MF	25-MAY-01	6020	
			FE	3.7	\$ RPD	EH	23-MAY-01	6010	
			K	2.4	\$ RPD	EH	09-JUN-01	6010	
			MG	2.0	\$ RPD	EH	23-MAY-01	6010	
			PB	2.4	\$ RPD	MF	25-MAY-01	6020	
			SE	3.5	\$ RPD	MF	25-MAY-01	6020	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010482

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DAYS METHOD
WG010482-5		Matrix Spike Duplicate						
WG010482-6		Reporting Limit						
			ZN	2.1	% RPD	MF	25-MAY-01	6020
			AS	0.005	ppm			6020
			CA	1.0	ppm			6010
			CD	0.005	ppm			6020
			CL-	1.0	ppm			325.2
			COND.	5	umhos/cm2			120.1
			CR	0.010	ppm			6020
			CU	0.025	ppm			340.2
			F-	.05	ppm			6010
			FE	0.10	ppm			310.1
			HCO3	1.0	ppm CaCO3			6010
			K	5.0	ppm			6010
			MG	1.0	ppm			6010
			NA	5.0	ppm			353.2
			NO2/NO3	.10	ppm			6020
			PB	0.003	ppm			6020
			SE	0.005	ppm			9036
			SO4=	2.0	ppm			160.1
			TDS	1.0	ppm			160.2
			TSS	1.0	ppm			6020
			ZN	0.020	ppm			
			AS	95	%Recovery	EH	23-MAY-01	6010
			CD	SR>4XSA	%Recovery	MF	25-MAY-01	6020
			CL-	112	%Recovery	JHN	02-JUN-01	325.2
			CR	96	%Recovery	MF	08-JUN-01	6020
			CU	117	%Recovery	EH	23-MAY-01	6010
			FE	85	%Recovery	EH	23-MAY-01	6010
			K	125	%Recovery	EH	09-JUN-01	6010
			NA	SR>4XSA	%Recovery	EH	09-JUN-01	353.2
			NO2/NO3	117	%Recovery	JHN	07-JUN-01	6020
			PB	SR>4XSA	%Recovery	MF	25-MAY-01	6020
			SE	SR>4XSA	%Recovery	MF	25-MAY-01	9036
			SO4=	100	%Recovery	JHN	05-JUN-01	6010
			ZN	97	%Recovery	EH	23-MAY-01	6010
			AS	<0.020	ppm	EH	23-MAY-01	6010
			CA	<1.0	ppm	EH	23-MAY-01	6010

Prep Blank

WG010482-8

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: WG010482

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
WG010482-8		Prep Blank	CD	<0.005	ppm	MF	25-MAY-01	6020
			CL-	<1.0	ppm	JHN	02-JUN-01	325.2
			COND.	<5	umhos/cm2	BD	18-MAY-01	120.1
			CR	<0.010	ppm	MF	08-JUN-01	6020
			CU	<0.025	ppm	EH	23-MAY-01	6010
			FE	<0.10	ppm	EH	23-MAY-01	6010
			K	<5.0	ppm	EH	09-JUN-01	6010
			MG	<1.0	ppm	EH	23-MAY-01	6010
			NA	<5.0	ppm	EH	09-JUN-01	6010
			NO2/NO3	<1.0	ppm	JHN	07-JUN-01	353.2
			PB	<0.003	ppm	MF	25-MAY-01	6020
			SE	<0.005	ppm	MF	25-MAY-01	6020
			SO4=	<2.0	ppm	JHN	05-JUN-01	9036
			TDS	<10	ppm	MC	17-MAY-01	160.1
			TSS	<1.0	ppm	EH	17-MAY-01	160.2
			ZN	<0.020	ppm	EH	23-MAY-01	6010
WG010482-9		Lab Control Sample	AS	98	%Recovery	EH	23-MAY-01	6010
			CA	98	%Recovery	EH	23-MAY-01	6010
			CD	102	%Recovery	MF	25-MAY-01	6020
			CL-	99	%Recovery	JHN	02-JUN-01	325.2
			COND.	99	%Recovery	BD	18-MAY-01	120.1
			CR	98	%Recovery	MF	08-JUN-01	6020
			CU	110	%Recovery	EH	23-MAY-01	6010
			FE	101	%Recovery	EH	23-MAY-01	6010
			HCO3	94	%Recovery	RDC	22-MAY-01	310.1
			K	85	%Recovery	EH	09-JUN-01	6010
			MG	98	%Recovery	EH	23-MAY-01	6010
			NA	89	%Recovery	EH	09-JUN-01	6010
			NO2/NO3	112	%Recovery	JHN	07-JUN-01	353.2
			PB	100	%Recovery	MF	25-MAY-01	6020
			PH	98	%Recovery	EH	23-MAY-01	150.1
			SE	105	%Recovery	MF	25-MAY-01	6020
			SO4=	93	%Recovery	JHN	05-JUN-01	9036
			TDS	97	%Recovery	MC	17-MAY-01	160.1
			TSS	91	%Recovery	EH	18-MAY-01	160.2
			ZN	98	%Recovery	EH	23-MAY-01	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010482

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	TEST METHOD
WG010482-10		Duplicate	CL-	<1	% RPD	JHN	02-JUN-01	325.2
			COND.	<1	% RPD	BD	18-MAY-01	120.1
			HCO3	<1.0	% RPD	RDC	22-MAY-01	310.1
			NO2/NO3	10.7	% RPD	JHN	07-JUN-01	353.2
			PH	<1.0	% RPD	EH	23-MAY-01	150.1
			SO4=	<1	% RPD	JHN	05-JUN-01	9036
			TDS	1	% RPD	MC	17-MAY-01	160.1
			TSS	4.2	% RPD	EH	17-MAY-01	160.2
WG010482-11		Matrix Spike Duplicate	AS	<1	% RPD	EH	23-MAY-01	6010
			CA	1.7	% RPD	EH	23-MAY-01	6010
			CD	<1	% RPD	MF	25-MAY-01	6020
			CR	<1	% RPD	MF	08-JUN-01	6020
			CU	<1	% RPD	EH	23-MAY-01	6010
			FE	<1	% RPD	EH	23-MAY-01	6010
			K	4.3	% RPD	EH	09-JUN-01	6010
			MG	1.3	% RPD	EH	23-MAY-01	6010
			NA	1.7	% RPD	EH	08-JUN-01	6010
			PB	<1	% RPD	MF	25-MAY-01	6020
			SE	<1	% RPD	MF	25-MAY-01	6020
			ZN	5.0	% RPD	EH	23-MAY-01	6010
WG010482-13		Matrix Spike	CR	104	% Recovery	EH	23-MAY-01	6010
			CU	104	% Recovery	EH	23-MAY-01	6010
WG010482-14		Prep Blank	CR	<.050	ppm	EH	23-MAY-01	6010
			CU	<.025	ppm	EH	23-MAY-01	6010
WG010482-15		Lab Control Sample	CR	108	% Recovery	EH	23-MAY-01	6010
			CU	103	% Recovery	EH	23-MAY-01	6010
WG010482-16		Matrix Spike Duplicate	CR	3.9	% RPD	EH	23-MAY-01	6010
			CU	4.4	% RPD	EH	23-MAY-01	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010482

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

Vince Kelly
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				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	GRAB	COMP.	SAMPLE NUMBER													
5-11-01	1115			APR1-0105-158	3	X	X			X							
	1320			APR1-0105-160	3	X	X			X							
	1400			APR1-0105-157	3	X	X			X							
	1440			APR1-0105-149	3	X	X			X							
	1515			APR1-0105-238	3	X	X			X							
5-14-01	840			APR1-0105-161	3	X	X			X							
	910			APR1-0105-162	3	X	X			X							
	915			APR1-0105-239	3	X	X			X							
	940			APR1-0105-172	3	X	X			X							
	1010			APR1-0105-144	3	X	X			X							
	1035			APR1-0105-173	3	X	X			X							
	1050			APR1-0105-148	3	X	X			X							
	1140			APR1-0105-152	3	X	X			X							
	1340			APR1-0105-145	3	X	X			X							
	1410			APR1-0105-151	3	X	X			X							
Relinquished (Signature)		Received by: (Signature)		Date/Time		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS							
[Signature]		[Signature]		5/14/01 1100		TSC, SLC, UT											
Relinquished (Signature)		Received by: (Signature)		Date/Time		Remarks											
[Signature]		[Signature]															
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits											
[Signature]		[Signature]				<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter											
						<input type="checkbox"/> Other											
						Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined											

HYDROMETRICS

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CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		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	
5-10-01	815			APR1-0105-121	3	X	X		X	X			
	900			APR1-0105-111	3	X	X		X	X			
	945			APR1-0105-124	3	X	X		X	X			
	1025			APR1-0105-114	3	X	X		X	X			
	1030			APR1-0105-234	3	X	X		X	X			
	1315			APR1-0105-119	3	X	X		X	X			
	1345			APR1-0105-120	3	X	X		X	X			
	1420			APR1-0105-118	3	X	X		X	X			
	1500			APR1-0105-122	3	X	X		X	X			
	1600			APR1-0105-235	3	X	X		X	X			
5-11-01	830			APR1-0105-123	3	X	X		X	X			
	950			APR1-0105-150	3	X	X		X	X			
	1000			APR1-0105-236	3	X	X		X	X			
	1020			APR1-0105-237	3	X	X		X	X			
	1045			APR1-0105-159	3	X	X		X	X			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other	
Relinquished (Signature)		Date/Time		Received by: (Signature)		TSC-5LC-UT				Air Bill #			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks				Enclosed: <input checked="" 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)		5-15-01 1300				Split Samples: <input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Declined		Signature	

Notation results & electronic copy to:

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3180
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	COMP	GRAB										
5/4/01	1430			3	X				X				<div>Shipped via: Bus, Fed Ex, UPS Other Air Bill #</div>
	1455			3	X				X				
	1520			3	X				X				
	1620			3	X				X				
<div>Relinquished (Signature)</div> <div>5/14/01 1600</div> <div>Received by: (Signature)</div> <div>Lab</div> <div>P.O. #</div>													
<div>Relinquished (Signature)</div> <div>5/14/01 1600</div> <div>Received by: (Signature)</div> <div>Remarks</div>													
<div>Relinquished (Signature)</div> <div>5/14/01 1600</div> <div>Received for Laboratory by: (Signature)</div> <div>Date/Time</div> <div>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</div>													

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOWE
L010706-001	15-MAY-01	EPRI-0105-127	AS	2.2	ppm	EH	30-MAY-01	180
			CA	164.	ppm	EH	30-MAY-01	180
			CD	<0.005	ppm	BD	30-MAY-01	180
			CL-	577.	ppm	JN	11-JUN-01	28
			CO3	<1.0	ppm CaCO3	DC	25-MAY-01	310.1
			COND.	5060.	unhos/cm2	BD	18-MAY-01	28
			CR	0.010	ppm	BD	30-MAY-01	180
			CU	<0.025	ppm	BD	30-MAY-01	6020
			F-	5.1	ppm	EH	21-MAY-01	28
			FE	<0.10	ppm	EH	25-JUN-01	180
			HCO3	372.	ppm CaCO3	DC	25-MAY-01	14
			K	93.	ppm	EH	30-MAY-01	180
			MG	88.	ppm	EH	30-MAY-01	180
			NA	846.	ppm	EH	30-MAY-01	180
			NO2/NO3	5.2	ppm	EH	30-MAY-01	180
			PB	<0.003	ppm	JN	12-JUN-01	28
			PH	7.7	ppm	BD	30-MAY-01	180
			SE	0.25	pH	DC	25-MAY-01	150.1
			SO4=	2030.	ppm	BD	30-MAY-01	180
			TDS	3834.	ppm	JN	08-JUN-01	28
			TSS	<1.0	ppm	MC	17-MAY-01	7
			ZN	0.11	ppm	EH	21-MAY-01	160.1
					ppm	BD	30-MAY-01	160.2
					ppm	BD	30-MAY-01	6020
L010706-002	15-MAY-01	EPRI-0105-132	AS	0.057	ppm	BD	30-MAY-01	180
			CA	371.	ppm	EH	30-MAY-01	180
			CD	<0.005	ppm	BD	30-MAY-01	180
			CL-	616.	ppm	JN	11-JUN-01	28
			CO3	<1.0	ppm CaCO3	DC	25-MAY-01	310.1
			COND.	9220.	unhos/cm2	BD	18-MAY-01	28
			CR	<0.010	ppm	BD	30-MAY-01	180
			CU	<0.025	ppm	BD	30-MAY-01	6020
			F-	1.7	ppm	BD	30-MAY-01	6020
			FE	0.17	ppm	EH	21-MAY-01	28
			HCO3	166.	ppm CaCO3	DC	25-JUN-01	180
			K	21.	ppm	EH	25-MAY-01	14
			MG	126.	ppm	EH	30-MAY-01	180
			NA	1937.	ppm	EH	30-MAY-01	180
			NO2/NO3	93.	ppm	EH	30-MAY-01	180
			PB	<0.003	ppm	JN	13-JUN-01	28
					ppm	BD	30-MAY-01	353.2
					ppm	BD	30-MAY-01	6020
					ppm	BD	30-MAY-01	6020
					ppm	BD	30-MAY-01	6010
					ppm	BD	30-MAY-01	6010
					ppm	BD	30-MAY-01	6020
					ppm	BD	30-MAY-01	6020
					ppm	BD	30-MAY-01	6020