

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000124

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000124-5		Practical Quantitation Limit	CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020
			CU	0.025	ppm				6020
			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	10.	ppm				160.2
WG000124-6		Matrix Spike	AS	83	%Recovery	MK	16-FEB-00		6010
			CD	99	%Recovery	KB	24-FEB-00		6020
			CL-	102	%Recovery	JN	22-FEB-00		325.2
			CR	102	%Recovery	KB	24-FEB-00		6020
			CU	81	%Recovery	KB	24-FEB-00		6020
			F-	96	%Recovery	BD	09-FEB-00		340.2
			FE	SR>4XSA	%Recovery	MK	16-FEB-00		6010
			NO2/NO3	96	%Recovery	JN	28-FEB-00		353.2
			PB	91	%Recovery	KB	24-FEB-00		6020
			SE	90	%Recovery	KB	24-FEB-00		6020
			SO4=	83	%Recovery	JN	08-FEB-00		9036
			AS	<0.005	ppm	MK	16-FEB-00		6010
			CA	<1.0	ppm	MK	16-FEB-00		6010
			CD	<0.005	ppm	KB	24-FEB-00		6020
			CL-	<1.0	ppm	JN	22-FEB-00		325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00		310.1
			COND.	<5.0	umhos/cm2	BD	04-FEB-00		120.1
WG000124-7		Prep Blank	CR	<0.010	ppm	KB	24-FEB-00		6020
			CU	<0.025	ppm	KB	24-FEB-00		6020
			F-	<0.050	ppm	BD	09-FEB-00		340.2
			FE	<0.10	ppm	MK	16-FEB-00		6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
WG000124-7		Prep Blank	HCO3	<1.0	ppm	CaCO3	DC	07-FEB-00
			K	<5.0	ppm		MK	16-FEB-00
			MG	<1.0	ppm		MK	16-FEB-00
			NA	<5.0	ppm		MK	16-FEB-00
			NO2/NO3	<0.10	ppm		JN	28-FEB-00
			PB	<0.003	ppm		KB	24-FEB-00
			SE	<0.005	ppm		KB	24-FEB-00
			SO4=	<2.0	ppm		JN	08-FEB-00
			TDS	<10.	ppm		DC	03-JAN-00
			TSS	<1.0	ppm		DC	03-JAN-00
WG000124-8		Lab Control Sample	AS	98	%Recovery		MK	16-FEB-00
			CA	107	%Recovery		MK	16-FEB-00
			CD	102	%Recovery		KB	24-FEB-00
			CL-	105	%Recovery		JN	22-FEB-00
			COND.	100	%Recovery		BD	04-FEB-00
			CR	103	%Recovery		KB	24-FEB-00
			CU	90	%Recovery		KB	24-FEB-00
			F-	96	%Recovery		BD	09-FEB-00
			FE	108	%Recovery		MK	16-FEB-00
			HCO3	96	%Recovery		DC	07-FEB-00
			K	98	%Recovery		DC	16-FEB-00
			MG	101	%Recovery		MK	16-FEB-00
			NA	107	%Recovery		MK	16-FEB-00
			NO2/NO3	101	%Recovery		JN	28-FEB-00
			PB	102	%Recovery		KB	24-FEB-00
			SE	97	%Recovery		KB	24-FEB-00
			SO4=	96	%Recovery		JN	08-FEB-00
			TDS	96	%Recovery		DC	03-JAN-00
			TSS	99	%Recovery		DC	03-JAN-00
WG000124-9		Duplicate	AS	<1	% RPD		MK	16-FEB-00
			CA	3.4	% RPD		MK	16-FEB-00
			CD	<1	% RPD		KB	24-FEB-00
			CL-	3.6	% RPD		JN	22-FEB-00
			CO3	<1	% RPD		DC	07-FEB-00
			COND.	<1	% RPD		BD	04-FEB-00
			CR	<1	% RPD		KB	24-FEB-00
			CU	<1	% RPD		KB	24-FEB-00

ASARCO TECHNICAL SERVICES CENTER


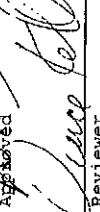
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000124

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
WG000124 9		Duplicate	F-	<1	% RPD	BD	09 FEB-00		340.2
			FE	<1	% RPD	MK	16 FEB-00		6010
			HCO3	1.1	% RPD	DC	07 FEB-00		310.1
			K	2.4	% RPD	MK	16 FEB-00		6010
			MG	3.1	% RPD	MK	16 FEB-00		6010
			NA	2.2	% RPD	MK	16 FEB-00		6010
			NO2/NO3	+/-prdl	% RPD	JN	28 FEB-00		353.2
			PB	+/-prdl	% RPD	KB	24 FEB-00		6020
			SE	<1	% RPD	KB	24 FEB-00		6020
			SO4=	3.2	% RPD	JN	08 FEB-00		9036
			TDS	1.4	% RPD	DC	03 JAN-00		160.1
			TSS	6.7	% RPD	DC	03 JAN-00		160.2

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 <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	
1280	830				3	X	X			X			
1835					3	X	X			X			
850					3	X	X			X			
915					3	X	X			X			
950					3	X	X			X			
1030					3	X	X			X			
1110					3	X	X			X			
1315					3	X	X			X			
1345					3	X	X			X			
1410					3	X	X			X			
1430					3	X	X			X			
1450					3	X	X			X			
1515					3	X	X			X			
1540					3	X	X			X			
1630					3	X	X			X			

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	11/3/02 16:00		SLC UT		Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
			Received 2 coolers - 1.28.00 1630 1 cooler - 2.01.00 1230		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:	
		<i>[Signature]</i>	11:00 11:20	<input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Other	

HFORM-1-4/95

Return results & electronic copy to:

Split Samples:  
☐ Accepted ☐ Declined

Signature



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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 <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	TPH		
1-29-01	850			EPR1-0002-229	X	X			X	X				
	930			EPR1-0002-100	X	X			X	X				
	1000			EPR1-0002-102	X	X			X	X				
	1015			EPR1-0002-103	X	X			X	X				
	1020			EPR1-0002-230	X	X			X	X				
	1100			EPR1-0002-175	X	X			X	X				
	1120			EPR1-0002-176	X	X			X	X				
	1140			EPR1-0002-177	X	X			X	X				
	1220			EPR1-0002-118	X	X			X	X				
/														
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed-Ex, UPS						
Relinquished (Signature)		Received by: (Signature)		Remarks		Date/Time		Other						
Relinquished (Signature)		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				
Relinquished (Signature)		Date/Time		Date/Time		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: L000133

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	DAIS METHOD
L000133-001	26-JAN-00	EPRI-0002-154	AS	0.012	ppm	KB	07-FEB-00	180	6020
			CA	74.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	493.	ppm	JN	22-FEB-00	28	325.2
			CO3	32.	ppm CaCO3	DC	02-FEB-00	310.1	
			COND.	5220.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	<0.025	ppm	KB	07-FEB-00	6020	
			F-	2.1	ppm	BD	04-FEB-00	28	340.2
			FE	0.69	ppm	MK	16-FEB-00	180	6010
			HCO3	428.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	7.8	ppm	MK	16-FEB-00	180	6010
			MG	49.	ppm	MK	16-FEB-00	180	6010
			NA	1036.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	3.1	ppm	JN	28-FEB-00	28	353.2
			PB	0.004	ppm	KB	07-FEB-00	180	6020
			PH	8.6	pH	DC	02-FEB-00	150.1	
			SE	0.060	ppm	KB	07-FEB-00	180	6020
			SO4=	1732.	ppm	JN	08-FEB-00	28	9036
			TDS	3560.	ppm	DC	31-JAN-00	7	160.1
			TSS	29.	ppm	DC	31-JAN-00	160.2	
			ZN	0.022	ppm	KB	07-FEB-00	180	6020
L000133-002	26-JAN-00	EPRI-0002-223	AS	0.013	ppm	KB	07-FEB-00	180	6020
			CA	76.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	460.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1	
			COND.	5230.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	<0.025	ppm	KB	07-FEB-00	6020	
			F-	2.1	ppm	BD	04-FEB-00	28	340.2
			FE	0.75	ppm	MK	16-FEB-00	180	6010
			HCO3	465.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	8.0	ppm	MK	16-FEB-00	180	6010
			MG	49.	ppm	MK	16-FEB-00	180	6010
			NA	1096.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	3.0	ppm	JN	28-FEB-00	28	353.2
			PB	0.004	ppm	KB	07-FEB-00	180	6020

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Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-002	26-JAN-00	EPRI-0002-223	PH	8.2	pH	DC	02-FEB-00	150.1	
			SE	0.057	ppm	KB	07-FEB-00	180	6020
			SO4=	1645.	ppm	JN	08-FEB-00	28	9036
			TDS	3462.	ppm	DC	31-JAN-00	7	160.1
			TSS	30.	ppm	DC	31-JAN-00		160.2
			ZN	0.021	ppm	KB	07-FEB-00	180	6020
			AS	1.2	ppm	MK	16-FEB-00	180	6010
			CA	448.	ppm	MK	16-FEB-00	180	6010
			CD	0.011	ppm	KB	07-FEB-00	180	6020
			CL-	499.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	7500.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	0.012	ppm	KB	07-FEB-00	180	6020
			CU	0.037	ppm	KB	07-FEB-00		6020
			F-	2.2	ppm	BD	04-FEB-00	28	340.2
			FE	12.	ppm	MK	16-FEB-00	180	6010
L000133-003	26-JAN-00	EPRI-0002-110	HCO3	390.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	113.	ppm	MK	16-FEB-00	180	6010
			MG	161.	ppm	MK	16-FEB-00	180	6010
			NA	1262.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	11.	ppm	JN	28-FEB-00	28	353.2
			PE	0.10	ppm	KB	07-FEB-00	180	6020
			PH	7.9	pH	DC	02-FEB-00		150.1
			SE	0.11	ppm	KB	07-FEB-00	180	6020
			SO4=	3940.	ppm	JN	08-FEB-00	28	9036
			TDS	5829.	ppm	DC	31-JAN-00	7	160.1
			TSS	438.	ppm	DC	31-JAN-00		160.2
			ZN	0.26	ppm	KB	07-FEB-00	180	6020
			AS	0.019	ppm	KB	07-FEB-00	180	6020
			CA	265.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	408.	ppm	JN	22-FEB-00	28	325.2
L000133-004	26-JAN-00	EPRI-0002-140	CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	6600.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	2.8	ppm	BD	04-FEB-00	28	340.2

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Batch No: L000133

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	
							ANALYZED	HOLD DAYS METHOD
L000133-004	26-JAN-00	EPRI-0002-140	FE	0.28	ppm	MK	16-FEB-00	180 6010
			HCO3	246.	ppm	DC	03-FEB-00	14 310.1
			K	352.	ppm	MK	16-FEB-00	180 6010
			MG	116.	ppm	MK	16-FEB-00	180 6010
			NA	959.	ppm	BD	17-FEB-00	180 6010
			NO2/NO3	17.	ppm	JN	28-FEB-00	28 353.2
			PB	<0.003	ppm	KB	07-FEB-00	180 6020
			PH	7.8	pH	DC	03-FEB-00	150.1
			SE	0.91	ppm	KB	07-FEB-00	180 6020
			SO4=	2622.	ppm	JN	08-FEB-00	28 9036
			TDS	4896.	ppm	DC	31-JAN-00	7 160.1
			TSS	5.3	ppm	DC	31-JAN-00	160.2
			ZN	<0.020	ppm	KB	07-FEB-00	180 6020
			AS	57.	ppm	MK	16-FEB-00	180 6010
			CA	488.	ppm	MK	16-FEB-00	180 6010
			CD	0.57	ppm	KB	07-FEB-00	180 6020
			CL-	625.	ppm	JN	22-FEB-00	28 325.2
			CO3	<1.0	ppm	DC	03-FEB-00	310.1
			COND.	7940.	umhos/cm2	BD	31-JAN-00	28 120.1
			CR	0.016	ppm	KB	07-FEB-00	180 6020
L000133-005	26-JAN-00	EPRI-0002-122	CU	0.38	ppm	KB	07-FEB-00	6020
			F-	7.7	ppm	KB	07-FEB-00	6020
			FE	16.	ppm	BD	04-FEB-00	28 340.2
			HCO3	714.	ppm	MK	16-FEB-00	180 6010
			K	290.	ppm	DC	03-FEB-00	14 310.1
			MG	239.	ppm	MK	16-FEB-00	180 6010
			NA	1269.	ppm	MK	16-FEB-00	180 6010
			NO2/NO3	10.	ppm	BD	17-FEB-00	180 6010
			PB	0.022	ppm	JN	28-FEB-00	28 353.2
			PH	7.0	ppm	KB	07-FEB-00	180 6020
			SE	0.12	pH	DC	03-FEB-00	150.1
			SO4=	3228.	ppm	KB	07-FEB-00	180 6020
			TDS	5711.	ppm	JN	08-FEB-00	28 9036
			TSS	31.	ppm	DC	31-JAN-00	7 160.1
			ZN	12.	ppm	DC	31-JAN-00	160.2
					ppm	MK	16-FEB-00	180 6010
			AS	1.2	ppm	MK	16-FEB-00	180 6010
			CA	588.	ppm	MK	16-FEB-00	180 6010
L000133-006	26-JAN-00	EPRI-0002-119						

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Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-006	26-JAN-00	EPRI-0002-119	CD	0.031	ppm	KB	07-FEB-00	180	6020
			CL-	2154.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	9820.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	4.7	ppm	MK	16-FEB-00	180	6010
			CU	0.24	ppm	KB	07-FEB-00		6020
			F-	1.2	ppm	BD	04-FEB-00	28	340.2
			FE	6.2	ppm	MK	16-FEB-00	180	6010
			HCO3	210.	ppm CaCO3	DC	03-FEB-00	14	310.1
			K	39.	ppm	MK	16-FEB-00	180	6010
			MG	378.	ppm	MK	16-FEB-00	180	6010
			NA	1028.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	169.	ppm	JN	28-FEB-00	28	353.2
			PB	0.051	ppm	KB	07-FEB-00	180	6020
			PH	7.5	pH	DC	03-FEB-00		150.1
			SE	0.23	ppm	KB	07-FEB-00	180	6020
			SO4=	2147.	ppm	JN	08-FEB-00	28	9036
			TDS	6849.	ppm	DC	31-JAN-00	7	160.1
			TSS	38.	ppm	DC	31-JAN-00		160.2
			ZN	0.43	ppm	KB	07-FEB-00	180	6020
			AS	0.020	ppm	KB	07-FEB-00	180	6020
			CA	658.	ppm	MK	16-FEB-00	180	6010
			CD	0.043	ppm	KB	07-FEB-00	180	6020
			CL-	1746.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	9870.	umhos/cm2	BD	31-JAN-00	28	120.1
L000133-007	26-JAN-00	EPRI-0002-164	CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	0.034	ppm	KB	07-FEB-00		6020
			F-	1.2	ppm	BD	04-FEB-00	28	340.2
			FE	7.3	ppm	MK	16-FEB-00	180	6010
			HCO3	284.	ppm CaCO3	DC	03-FEB-00	14	310.1
			K	41.	ppm	MK	16-FEB-00	180	6010
			MG	332.	ppm	MK	16-FEB-00	180	6010
			NA	1334.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	250.	ppm	JN	28-FEB-00	28	353.2
			PB	0.010	ppm	KB	07-FEB-00	180	6020
			PH	7.5	pH	DC	03-FEB-00		150.1
			SE	0.42	ppm	KB	07-FEB-00	180	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-007	26-JAN-00	EPRI-0002-164	SO4=	2545.	ppm	JN	08-FEB-00	28	9036
			TDS	7385.	ppm	DC	31-JAN-00	7	160.1
			TSS	204.	ppm	DC	31-JAN-00		160.2
			ZN	0.24	ppm	KB	07-FEB-00	180	6020
			AS	1.5	ppm	MK	16-FEB-00	180	6010
			CA	536.	ppm	MK	16-FEB-00	180	6010
			CD	0.43	ppm	KB	07-FEB-00	180	6020
			CL-	1429.	ppm	JN	22-FEB-00	28	325.2
			CO3	108.	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	11940.	umbos/cm2	BD	31-JAN-00	28	120.1
			CR	0.041	ppm	KB	07-FEB-00	180	6020
			CU	0.44	ppm	KB	07-FEB-00		6020
L000133-008	26-JAN-00	EPRI-0002-120	F-	6.3	ppm	BD	04-FEB-00	28	340.2
			FE	1.2	ppm	MK	16-FEB-00	180	6010
			HCO3	510.	ppm CaCO3	DC	03-FEB-00	14	310.1
			K	21.	ppm	MK	16-FEB-00	180	6010
			MG	285.	ppm	MK	16-FEB-00	180	6010
			NA	2209.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	114.	ppm	JN	28-FEB-00	28	353.2
			PB	0.51	ppm	KB	07-FEB-00	180	6020
			PH	8.6	pH	DC	03-FEB-00		150.1
			SE	0.21	ppm	KB	07-FEB-00	180	6020
			SO4=	3910.	ppm	JN	08-FEB-00	28	9036
			TDS	9533.	ppm	DC	31-JAN-00	7	160.1
L000133-009	26-JAN-00	EPRI-0002-141	TSS	12.	ppm	DC	31-JAN-00		160.2
			ZN	1.7	ppm	KB	07-FEB-00	180	6020
			AS	1.3	ppm	MK	16-FEB-00	180	6010
			CA	164.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	500.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	5060.	umbos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	2.1	ppm	BD	04-FEB-00	28	340.2
			FE	<0.10	ppm	MK	16-FEB-00	180	6010
			HCO3	389.	ppm CaCO3	DC	03-FEB-00	14	310.1

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	ANALYSIS METHOD
L000133-009	26-JAN-00	EPRI-0002-141	K	104.	ppm	MK	16-FEB-00	180	6010
			MG	92.	ppm	MK	16-FEB-00	180	6010
			NA	837.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	4.2	ppm	JN	28-FEB-00	28	353.2
			PB	0.011	ppm	KB	07-FEB-00	180	6020
			PH	8.3	pH	DC	03-FEB-00		150.1
			SE	0.18	ppm	KB	07-FEB-00	180	6020
			SO4=	1830.	ppm	JN	08-FEB-00	28	9036
			TDS	3613.	ppm	DC	31-JAN-00	7	160.1
			TSS	2.7	ppm	DC	31-JAN-00		160.2
			ZN	0.052	ppm	KB	07-FEB-00	180	6020
			AS	14.	ppm	MK	16-FEB-00	180	6010
			CA	391.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	164.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	03-FEB-00		310.1
			COND.	18110.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	0.051	ppm	KB	07-FEB-00		6020
			F-	1.7	ppm	BD	04-FEB-00	28	340.2
L000133-010	26-JAN-00	EPRI-0002-142	FE	1.5	ppm	MK	16-FEB-00	180	6010
			HCO3	525.	ppm	DC	03-FEB-00	14	310.1
			K	604.	ppm	MK	16-FEB-00	180	6010
			MG	355.	ppm	MK	16-FEB-00	180	6010
			NA	3938.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	175.	ppm	JN	28-FEB-00	28	353.2
			PB	0.023	ppm	KB	07-FEB-00	180	6020
			PH	7.7	ppm	DC	03-FEB-00		150.1
			SE	3.3	ppm	KB	07-FEB-00	180	6020
			SO4=	9219.	ppm	JN	08-FEB-00	28	9036
			TDS	16215.	ppm	DC	31-JAN-00	7	160.1
			TSS	87.	ppm	DC	31-JAN-00		160.2
			ZN	0.084	ppm	KB	07-FEB-00	180	6020
			AS	0.085	ppm	KB	07-FEB-00	180	6020
			CA	231.	ppm	MK	16-FEB-00	180	6010
			CD	0.29	ppm	KB	07-FEB-00	180	6020
			CL-	451.	ppm	JN	22-FEB-00	28	325.2
L000133-011	26-JAN-00	EPRI-0002-114	AS	0.085	ppm	KB	07-FEB-00	180	6020
			CA	231.	ppm	MK	16-FEB-00	180	6010
			CD	0.29	ppm	KB	07-FEB-00	180	6020
			CL-	451.	ppm	JN	22-FEB-00	28	325.2

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-011	26-JAN-00	EPRI-0002-114	CO3	<1.0	ppm CaCO3	DC	03-FEB-00	310.1	
			COND.	4440.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	0.057	ppm	KB	07-FEB-00		6020
			F-	1.9	ppm	BD	04-FEB-00	28	340.2
			FE	17.	ppm	MK	16-FEB-00	180	6010
			HCO3	264.	ppm CaCO3	DC	03-FEB-00	14	310.1
			K	42.	ppm	MK	16-FEB-00	180	6010
			MG	71.	ppm	MK	16-FEB-00	180	6010
			NA	753.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	4.9	ppm	JN	28-FEB-00	28	353.2
			PB	0.12	ppm	KB	07-FEB-00	180	6020
			PH	7.9	pH	DC	03-FEB-00		150.1
			SE	0.74	ppm	KB	07-FEB-00	180	6020
			SO4=	1537.	ppm	JN	08-FEB-00	28	9036
			TDS	3169.	ppm	DC	31-JAN-00	7	160.1
			TSS	450.	ppm	DC	31-JAN-00		160.2
			ZN	0.53	ppm	KB	07-FEB-00	180	6020
			AS	<0.005	ppm	KB	07-FEB-00	180	6020
			CA	<1.0	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	<1.0	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	<5.0	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	KB	07-FEB-00	180	6020
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	<0.050	ppm	BD	04-FEB-00	28	340.2
			FE	<0.10	ppm	MK	16-FEB-00	180	6010
			HCO3	1.0	ppm CaCO3	DC	03-FEB-00	14	310.1
			K	<5.0	ppm	MK	16-FEB-00	180	6010
L000133-012	26-JAN-00	EPRI-0002-224	MG	<1.0	ppm	MK	16-FEB-00	180	6010
			NA	<5.0	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	0.10	ppm	JN	28-FEB-00	28	353.2
			PB	<0.003	ppm	KB	07-FEB-00	180	6020
			PH	5.6	pH	DC	03-FEB-00		150.1
			SE	<0.005	ppm	KB	07-FEB-00	180	6020
			SO4=	<2.0	ppm	JN	08-FEB-00	28	9036
			TDS	<10.	ppm	DC	31-JAN-00	7	160.1



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MO/D
L000133-012	26-JAN-00	EPRI-0002-224	TSS	<1.0	ppm	DC	31-JAN-00	160.2
			ZN	<0.020	ppm	KB	07-FEB-00	6020
			AS	0.014	ppm	KB	07-FEB-00	180
			CA	123.	ppm	MK	16-FEB-00	6010
			CD	<0.005	ppm	KB	07-FEB-00	180
			CL-	668.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm	CaCO3	03-FEB-00	310.1
			COND.	4870.	umhos/cm2	BD	31-JAN-00	28
			CR	<0.010	ppm	KB	07-FEB-00	180
			CU	<0.025	ppm	KB	07-FEB-00	6020
			F-	1.3	ppm	BD	04-FEB-00	28
			FE	0.50	ppm	MK	16-FEB-00	180
			HCO3	317.	ppm	DC	03-FEB-00	14
			K	14.	ppm	MK	16-FEB-00	180
			MG	111.	ppm	MK	16-FEB-00	180
			NA	811.	ppm	BD	17-FEB-00	180
			NO2/NO3	7.9	ppm	JN	28-FEB-00	28
			PB	0.007	ppm	KB	07-FEB-00	180
			PH	8.0	PH	DC	03-FEB-00	150.1
			SE	0.021	ppm	KB	07-FEB-00	180
			SO4=	1448.	ppm	JN	08-FEB-00	28
			TDS	3275.	ppm	DC	31-JAN-00	7
			TSS	14.	ppm	DC	31-JAN-00	160.1
			ZN	0.028	ppm	KB	07-FEB-00	180
			AS	0.007	ppm	KB	07-FEB-00	180
			CA	222.	ppm	MK	16-FEB-00	180
			CD	<0.005	ppm	KB	07-FEB-00	180
			CL-	493.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm	CaCO3	03-FEB-00	310.1
			COND.	4930.	umhos/cm2	BD	31-JAN-00	28
			CR	0.021	ppm	MK	16-FEB-00	180
			CU	<0.025	ppm	KB	07-FEB-00	6020
			F-	1.0	ppm	BD	04-FEB-00	28
			FE	8.6	ppm	MK	16-FEB-00	180
			HCO3	530.	ppm	DC	03-FEB-00	14
			K	16.	ppm	MK	16-FEB-00	180
			MG	116.	ppm	MK	16-FEB-00	180
L000133-014	27-JAN-00	EPRI-0002-160	AS	0.007	ppm	KB	07-FEB-00	180
			CA	222.	ppm	MK	16-FEB-00	180
			CD	<0.005	ppm	KB	07-FEB-00	180
			CL-	493.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm	CaCO3	03-FEB-00	310.1
			COND.	4930.	umhos/cm2	BD	31-JAN-00	28
			CR	0.021	ppm	MK	16-FEB-00	180
			CU	<0.025	ppm	KB	07-FEB-00	6020
			F-	1.0	ppm	BD	04-FEB-00	28
			FE	8.6	ppm	MK	16-FEB-00	180
			HCO3	530.	ppm	DC	03-FEB-00	14
			K	16.	ppm	MK	16-FEB-00	180
			MG	116.	ppm	MK	16-FEB-00	180

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L000133-014	27-JAN-00	EPRI-0002-160	NA	934.	ppm	BD	17-FEB-00	180
			NO2/NO3	15.	ppm	JN	28-FEB-00	28
			PB	0.010	ppm	KB	07-FEB-00	180
			PH	8.0	pH	DC	03-FEB-00	150.1
			SE	0.015	ppm	KB	07-FEB-00	180
			SO4=	1577.	ppm	JN	08-FEB-00	28
			TDS	3450.	ppm	DC	31-JAN-00	7
			TSS	341.	ppm	DC	31-JAN-00	160.1
			ZN	0.042	ppm	KB	07-FEB-00	180
								6020
			AS	0.031	ppm	KB	07-FEB-00	180
			CA	418.	ppm	MK	16-FEB-00	180
			CD	<0.005	ppm	KB	07-FEB-00	180
			CL-	670.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00	325.2
L000133-015	27-JAN-00	EPRI-0002-157	COND.	5210.	umhos/cm2	BD	31-JAN-00	28
			CR	0.14	ppm	MK	16-FEB-00	180
			CU	0.044	ppm	KB	07-FEB-00	6020
			F-	1.7	ppm	BD	04-FEB-00	28
			FE	61.	ppm	MK	16-FEB-00	180
			HCO3	1066.	ppm CaCO3	DC	03-FEB-00	14
			K	24.	ppm	MK	16-FEB-00	180
			MG	149.	ppm	KB	16-FEB-00	180
			NA	1090.	ppm	BD	17-FEB-00	180
			NO2/NO3	9.5	ppm	JN	28-FEB-00	28
			PB	0.033	ppm	KB	07-FEB-00	180
			PH	8.1	pH	DC	03-FEB-00	150.1
			SE	0.044	ppm	KB	07-FEB-00	180
			SO4=	1455.	ppm	JN	08-FEB-00	28
			TDS	3560.	ppm	DC	31-JAN-00	7
L000133-016	27-JAN-00	EPRI-0002-159	TSS	1868.	ppm	DC	31-JAN-00	160.1
			ZN	0.10	ppm	KB	07-FEB-00	180
								6020
			AS	0.009	ppm	KB	07-FEB-00	180
			CA	44.	ppm	MK	16-FEB-00	180
			CD	<0.005	ppm	KB	07-FEB-00	180
			CL-	332.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00	325.2
			COND.	3380.	umhos/cm2	BD	31-JAN-00	28
								120.1

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-016	27-JAN-00	EPRI-0002-159	CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F	3.7	ppm	BD	04-FEB-00	28	340.2
			FE	0.13	ppm	MK	16-FEB-00	180	6010
			HCO3	301.	ppm	DC	03-FEB-00	14	310.1
			K	<5.0	ppm	MK	16-FEB-00	180	6010
			MG	65.	ppm	MK	16-FEB-00	180	6010
			NA	625.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	9.6	ppm	JN	28-FEB-00	28	353.2
			PB	<0.003	ppm	KB	07-FEB-00	180	6020
			PH	8.3	pH	DC	03-FEB-00		150.1
			SE	0.031	ppm	KB	07-FEB-00	180	6020
			SO4=	972.	ppm	JN	08-FEB-00	28	9036
			TDS	2187.	ppm	DC	31-JAN-00	7	160.1
			TSS	2.7	ppm	DC	31-JAN-00		160.2
			ZN	<0.020	ppm	KB	07-FEB-00	180	6020
			AS	0.14	ppm	KB	07-FEB-00	180	6020
			CA	187.	ppm	MK	16-FEB-00	180	6010
			CD	0.013	ppm	KB	07-FEB-00	180	6020
			CL-	609.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	03-FEB-00		310.1
			COND.	5020.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	MK	16-FEB-00	180	6010
L000133-017	27-JAN-00	EPRI-0002-161	CU	0.19	ppm	KB	07-FEB-00		6020
			F-	1.1	ppm	BD	04-FEB-00	28	340.2
			FE	4.7	ppm	MK	16-FEB-00	180	6010
			HCO3	514.	ppm	DC	03-FEB-00	14	310.1
			K	8.8	ppm	MK	16-FEB-00	180	6010
			MG	128.	ppm	MK	16-FEB-00	180	6010
			NA	851.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	0.46	ppm	JN	28-FEB-00	28	353.2
			PB	0.13	ppm	KB	07-FEB-00	180	6020
			PH	8.1	pH	DC	03-FEB-00		150.1
			SE	0.008	ppm	KB	07-FEB-00	180	6020
			SO4=	1679.	ppm	JN	08-FEB-00	28	9036
			TDS	3584.	ppm	DC	31-JAN-00	7	160.1
			TSS	169.	ppm	DC	31-JAN-00		160.2
			ZN	0.16	ppm	KB	07-FEB-00	180	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-018	27-JAN-00	EPRI-0002-225	AS	<0.005	ppm	KB	07-FEB-00	180	6020
			CA	<1.0	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	<1.0	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	03-FEB-00		310.1
			COND.	<5.0	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	<0.050	ppm	BD	04-FEB-00	28	340.2
			FE	<0.10	ppm	MK	16-FEB-00	180	6010
			HCO3	2.4	ppm	DC	03-FEB-00	14	310.1
			K	<5.0	ppm	MK	16-FEB-00	180	6010
			MG	<1.0	ppm	KB	16-FEB-00	180	6010
			NA	<5.0	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	0.26	ppm	JN	28-FEB-00	28	353.2
			PB	<0.003	ppm	KB	07-FEB-00	180	6020
			PH	6.2	pH	DC	03-FEB-00		150.1
			SE	<0.005	ppm	KB	07-FEB-00	180	6020
			SO4=	<2.0	ppm	JN	08-FEB-00	28	9036
			TDS	<10.	ppm	DC	31-JAN-00	7	160.1
			TSS	<1.0	ppm	DC	31-JAN-00		160.2
			ZN	<0.020	ppm	KB	07-FEB-00	180	6020
L000133-019	27-JAN-00	EPRI-0002-150	AS	0.029	ppm	KB	07-FEB-00	180	6020
			CA	216.	ppm	MK	16-FEB-00	180	6010
			CD	0.007	ppm	KB	07-FEB-00	180	6020
			CL-	367.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	03-FEB-00		310.1
			COND.	3090.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	0.046	ppm	KB	07-FEB-00		6020
			F-	0.66	ppm	BD	04-FEB-00	28	340.2
			FE	0.50	ppm	MK	16-FEB-00	180	6010
			HCO3	251.	ppm	DC	03-FEB-00	14	310.1
			K	7.6	ppm	MK	16-FEB-00	180	6010
			MG	101.	ppm	MK	16-FEB-00	180	6010
			NA	338.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	11.	ppm	JN	28-FEB-00	28	353.2
			PB	0.087	ppm	KB	07-FEB-00	180	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	ROUND	
L000133-019	27-JAN-00	EPRI-0002-150	PH	8.0	pH	DC	03-FEB-00	150.1	
			SE	0.023	ppm	KB	07-FEB-00	180	6020
			SO4=	1013.	ppm	JN	08-FEB-00	28	9036
			TDS	2196.	ppm	DC	31-JAN-00	7	160.1
			TSS	62.	ppm	DC	31-JAN-00		160.2
			ZN	0.047	ppm	KB	07-FEB-00	180	6020
			AS	0.027	ppm	KB	07-FEB-00	180	6020
			CA	112.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL	559.	ppm	JN	22-FEB-00	28	325.2
L000133-020	27 JAN 00	EPRI 0002 162	CO3	<1.0	ppm	CaCO3	03-FEB-00	310.1	
			COND.	7370.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	0.044	ppm	KB	07-FEB-00		6020
			F-	3.4	ppm	BD	04-FEB-00	28	340.2
			FE	3.9	ppm	MK	16-FEB-00	180	6010
			HCO3	385.	ppm	CaCO3	03-FEB-00	14	310.1
			K	116.	ppm	MK	16-FEB-00	180	6010
			MG	78.	ppm	MK	16-FEB-00	180	6010
			NA	1715.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	18.	ppm	JN	28-FEB-00	28	353.2
			PB	0.027	ppm	KB	07-FEB-00	180	6020
			PH	8.1	pH	DC	03-FEB-00		150.1
			SE	0.65	ppm	KB	07-FEB-00	180	6020
			SO4=	2867.	ppm	JN	08-FEB-00	28	9036
			TDS	5153.	ppm	DC	31-JAN-00	7	160.1
			TSS	162.	ppm	DC	31-JAN-00		160.2
			ZN	0.048	ppm	KB	07-FEB-00	180	6020
			AS	0.006	ppm	KB	07-FEB-00	180	6020
			CA	75.	ppm	MK	16-FEB-00	180	6010
L000133-021	27-JAN-00	EPRI-0002-149	CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL	396.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	CaCO3	03-FEB-00	310.1	
			COND.	3900.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	3.0	ppm	BD	04-FEB-00	28	340.2

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-021	27-JAN-00	EPRI-0002-149	FE	0.25	ppm	MK	16-FEB-00	180	6010
			HCO3	301.	ppm	DC	03-FEB-00	14	310.1
			K	9.1	ppm	MK	16-FEB-00	180	6010
			MG	65.	ppm	MK	16-FEB-00	180	6010
			NA	759.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	9.8	ppm	JN	28-FEB-00	28	353.2
			PB	<0.003	ppm	KB	07-FEB-00	180	6020
			PH	8.3	pH	DC	03-FEB-00		150.1
			SE	0.046	ppm	KB	07-FEB-00	180	6020
			SO4=	1284.	ppm	JN	08-FEB-00	28	9036
			TDS	2609.	ppm	DC	31-JAN-00	7	160.1
			TSS	16.	ppm	DC	31-JAN-00		160.2
			ZN	<0.020	ppm	KB	07-FEB-00	180	6020
			AS	0.005	ppm	KB	07-FEB-00	180	6020
			CA	75.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	385.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	03-FEB-00		310.1
			COND.	3910.	umhos/cm2	BD	31-JAN-00	28	120.1
L000133-022	27-JAN-00	EPRI-0002-226	CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	3.0	ppm	BD	04-FEB-00	28	340.2
			FE	0.27	ppm	MK	16-FEB-00	180	6010
			HCO3	309.	ppm	DC	03-FEB-00	14	310.1
			K	9.1	ppm	MK	16-FEB-00	180	6010
			MG	65.	ppm	BD	16-FEB-00	180	6010
			NA	753.	ppm	MK	17-FEB-00	180	6010
			NO2/NO3	9.9	ppm	JN	28-FEB-00	28	353.2
			PB	0.003	ppm	KB	07-FEB-00	180	6020
			PH	8.2	pH	DC	03-FEB-00		150.1
			SE	0.040	ppm	KB	07-FEB-00	180	6020
			SO4=	1215.	ppm	JN	08-FEB-00	28	9036
			TDS	2610.	ppm	DC	31-JAN-00	7	160.1
			TSS	18.	ppm	DC	31-JAN-00		160.2
			ZN	<0.020	ppm	KB	07-FEB-00	180	6020
			AS	0.006	ppm	KB	07-FEB-00	180	6020
			CA	136.	ppm	MK	16-FEB-00	180	6010
L000133-023	27-JAN-00	EPRI-0002-148							

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Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-023	27-JAN-00	EPRI-0002-148	CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	440.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	4340.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	2.6	ppm	BD	04-FEB-00	28	340.2
			FE	0.33	ppm	MK	16-FEB-00	180	6010
			HCO3	365.	ppm CaCO3	DC	03-FEB-00	14	310.1
			K	24.	ppm	MK	16-FEB-00	180	6010
			MG	76.	ppm	MK	16-FEB-00	180	6010
			NA	821.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	11.	ppm	JN	28-FEB-00	28	353.2
			PB	0.004	ppm	KB	07-FEB-00	180	6020
			PH	8.1	pH	DC	03-FEB-00		150.1
			SE	0.12	ppm	KB	07-FEB-00	180	6020
			SO4=	1326.	ppm	JN	08-FEB-00	28	9036
			TDS	3018.	ppm	DC	31-JAN-00	7	160.1
			TSS	16.	ppm	DC	31-JAN-00		160.2
			ZN	<0.020	ppm	KB	07-FEB-00	180	6020
L000133-024	27-JAN-00	EPRI-0002-152	AS	0.005	ppm	KB	07-FEB-00	180	6020
			CA	45.	ppm	MK	16-FEB-00	180	6010
			CD	<0.005	ppm	KB	07-FEB-00	180	6020
			CL-	304.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	2640.	umhos/cm2	BD	31-JAN-00	28	120.1
			CR	<0.010	ppm	MK	16-FEB-00	180	6010
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	2.7	ppm	BD	04-FEB-00	28	340.2
			FE	0.66	ppm	MK	16-FEB-00	180	6010
			HCO3	291.	ppm CaCO3	DC	03-FEB-00	14	310.1
			K	8.4	ppm	MK	16-FEB-00	180	6010
			MG	32.	ppm	MK	16-FEB-00	180	6010
			NA	517.	ppm	BD	17-FEB-00	180	6010
			NO2/NO3	8.2	ppm	JN	28-FEB-00	28	353.2
			PB	0.006	ppm	KB	07-FEB-00	180	6020
			PH	8.2	pH	DC	03-FEB-00		150.1
			SE	0.031	ppm	KB	07-FEB-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


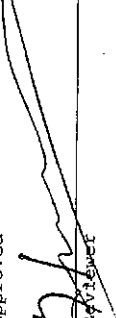
El Paso

Water and Solid Waste (Project 3220)

Batch No: L000133

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000133-024	27-JAN-00	EPRI-0002-152	SO4=	600.	ppm	JN	08-FEB-00	28	9036
			TDS	1626.	ppm	DC	31-JAN-00	7	160.1
			TSS	28.	ppm	DC	31-JAN-00		160.2
			ZN	<0.020	ppm	KB	07-FEB-00	180	6020

PH is a field parameter therefore holding time cannot be met by the laboratory.  
 Digestion Methods for Totals --- 3010 and 6020.  
 Holding time for NO2/NO3 was exceeded by 5 days.

  
 Approved  
  
 Reviewed



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000088

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
WG000088-1		Matrix Spike						
			AS	97	%Recovery	KB	07-FEB-00	6020
			CD	91	%Recovery	KB	07-FEB-00	6020
			CL-	104	%Recovery	JN	22-FEB-00	325.2
			CR	96	%Recovery	MK	16-FEB-00	6010
			CU	85	%Recovery	KB	07-FEB-00	6020
			F-	95	%Recovery	BD	04-FEB-00	340.2
			FE	97	%Recovery	MK	16-FEB-00	6010
			NO2/NO3	109	%Recovery	JN	28-FEB-00	353.2
			PB	94	%Recovery	KB	07-FEB-00	6020
			SE	96	%Recovery	KB	07-FEB-00	6020
			SO4=	101	%Recovery	JN	08-FEB-00	9036
			ZN	93	%Recovery	MK	16-FEB-00	6010
WG000088-2		Prep Blank						
			AS	<0.005	ppm	KB	07-FEB-00	6020
			CA	<1.0	ppm	MK	16-FEB-00	6010
			CD	<0.005	ppm	KB	07-FEB-00	6020
			CL-	<1.0	ppm	JN	22-FEB-00	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			COND.	<5.0	umhos/cm2	BD	31-JAN-00	120.1
			CR	<0.010	ppm	MK	16-FEB-00	6010
			CU	<0.025	ppm	KB	07-FEB-00	6020
			F-	<0.050	ppm	BD	04-FEB-00	340.2
			FE	<0.10	ppm	MK	16-FEB-00	6010
			HCO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			K	<5.0	ppm	MK	16-FEB-00	6010
			MG	<1.0	ppm	MK	16-FEB-00	6010
			NA	<5.0	ppm	BD	17-FEB-00	6010
			NO2/NO3	<0.10	ppm	JN	28-FEB-00	353.2
			PB	<0.003	ppm	KB	07-FEB-00	6020
			SE	<0.005	ppm	KB	07-FEB-00	6020
			SO4=	<2.0	ppm	JN	08-FEB-00	9036
			TDS	<10.	ppm	DC	31-JAN-00	160.1
			TSS	<1.0	ppm	DC	31-JAN-00	160.2
			ZN	<0.020	ppm	MK	16-FEB-00	6010
WG000088-3		Lab Control Sample						
			AS	103	%Recovery	KB	07-FEB-00	6020
			CA	97	%Recovery	KB	16-FEB-00	6010
			CD	105	%Recovery	KB	07-FEB-00	6020
			CL-	101	%Recovery	JN	22-FEB-00	325.2

## ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000088

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000088-3		Lab Control Sample	COND.	99	% Recovery	BD	31-JAN-00	120.1	
			CR	102	% Recovery	MK	16-FEB-00	6010	
			CU	102	% Recovery	KB	07-FEB-00	6020	
			F-	102	% Recovery	BD	04-FEB-00	340.2	
			FE	101	% Recovery	MK	16-FEB-00	6010	
			HCO3	98	% Recovery	DC	02-FEB-00	310.1	
			K	93	% Recovery	MK	16-FEB-00	6010	
			MG	96	% Recovery	MK	16-FEB-00	6010	
			NA	98	% Recovery	BD	17-FEB-00	6010	
			NO2/NO3	102	% Recovery	JN	28-FEB-00	353.2	
			PB	107	% Recovery	KB	07-FEB-00	6020	
			SE	105	% Recovery	KB	07-FEB-00	6020	
			SO4=	102	% Recovery	JN	08-FEB-00	9036	
			TDS	97	% Recovery	DC	31-JAN-00	160.1	
			TSS	99	% Recovery	DC	31-JAN-00	160.2	
			ZN	98	% Recovery	MK	16-FEB-00	6010	
			AS	<1	% RPD	KB	07-FEB-00	6020	
			CA	5.3	% RPD	MK	16-FEB-00	6010	
			CD	<1	% RPD	KB	07-FEB-00	6020	
			CL-	4.8	% RPD	JN	22-FEB-00	325.2	
WG000088-4		Duplicate	CO3	<1	% RPD	DC	02-FEB-00	310.1	
			COND.	<1	% RPD	BD	31-JAN-00	120.1	
			CR	<1	% RPD	MK	16-FEB-00	6010	
			CU	<1	% RPD	KB	07-FEB-00	6020	
			F-	8.1	% RPD	BD	04-FEB-00	340.2	
			FE	6.0	% RPD	MK	16-FEB-00	6010	
			HCO3	1.1	% RPD	DC	02-FEB-00	310.1	
			K	1.3	% RPD	MK	16-FEB-00	6010	
			MG	4.0	% RPD	MK	16-FEB-00	6010	
			NA	7.8	% RPD	BD	17-FEB-00	6010	
			NO2/NO3	20	% RPD	JN	28-FEB-00	353.2	
			PB	<1	% RPD	KB	07-FEB-00	6020	
			SE	<1	% RPD	KB	07-FEB-00	6020	
			SO4=	9.8	% RPD	JN	08-FEB-00	9036	
			TDS	<1	% RPD	DC	31-JAN-00	160.1	
			TSS	1.1	% RPD	DC	31-JAN-00	160.2	
			ZN	10	% RPD	MK	16-FEB-00	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

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Batch No: WG000088

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000088-5		Practical Quantitation Limit	AS	0.005	ppm		16-FEB-00		6020
			CA	1.0	ppm		07-FEB-00		6010
			CD	0.005	ppm		22-FEB-00		6020
			CL-	1.0	ppm		07-FEB-00		325.2
			CO3	1.0	ppm CaCO3		07-FEB-00		310.1
			COND.	5.0	umhos/cm2		04-FEB-00		120.1
			CR	0.010	ppm		16-FEB-00		6020
			CU	0.025	ppm		28-FEB-00		6020
			F-	0.050	ppm		07-FEB-00		340.2
			FE	0.10	ppm		16-FEB-00		6010
			HCO3	1.0	ppm CaCO3		28-FEB-00		310.1
			K	5.0	ppm		07-FEB-00		6010
			MG	1.0	ppm		07-FEB-00		6010
			NA	5.0	ppm		07-FEB-00		6010
			NO2/NO3	0.10	ppm		07-FEB-00		353.2
			PB	0.003	ppm		07-FEB-00		6020
			SE	0.005	ppm		07-FEB-00		6020
			SO4=	2.0	ppm		07-FEB-00		9036
			TDS	1.0	ppm		07-FEB-00		160.1
			TSS	1.0	ppm		07-FEB-00		160.2
			ZN	0.020	ppm		07-FEB-00		6020
WG000088-6		Matrix Spike	AS	94	%Recovery	MK	16-FEB-00		6010
			CD	95	%Recovery	KB	07-FEB-00		6020
			CL-	104	%Recovery	JN	22-FEB-00		325.2
			CR	105	%Recovery	KB	07-FEB-00		6020
			CU	88	%Recovery	KB	07-FEB-00		6020
			F-	94	%Recovery	BD	04-FEB-00		340.2
			FE	100	%Recovery	MK	16-FEB-00		6010
			NO2/NO3	113	%Recovery	JN	28-FEB-00		353.2
			PB	102	%Recovery	KB	07-FEB-00		6020
			SE	94	%Recovery	KB	07-FEB-00		6020
			SO4=	102	%Recovery	JN	08-FEB-00		9036
			ZN	89	%Recovery	KB	07-FEB-00		6020
			AS	<0.020	ppm	MK	16-FEB-00		6010
			CA	<1.0	ppm	MK	16-FEB-00		6010
WG000088-7		Prep Blank	CD	<0.005	ppm	KB	07-FEB-00		6020
			CL-	<1.0	ppm	JN	22-FEB-00		325.2

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Batch No: WG000088

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	CHMS	
WG000088-7		Prep Blank	CO3	<1.0	ppm CaCO3	DC	03-FEB-00		310.1
			COND.	<5.0	umbos/cm2	BD	31-JAN-00		120.1
			CR	<0.010	ppm	KB	07-FEB-00		6020
			CU	<0.025	ppm	KB	07-FEB-00		6020
			F-	<0.050	ppm	BD	04-FEB-00		340.2
			FE	<0.10	ppm	MK	16-FEB-00		6010
			HCO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			K	<5.0	ppm	MK	16-FEB-00		6010
			MG	<1.0	ppm	MK	16-FEB-00		6010
			NA	<5.0	ppm	BD	17-FEB-00		6010
			NO2/NO3	<0.10	ppm	JN	28-FEB-00		353.2
			PB	<0.003	ppm	KB	07-FEB-00		6020
			SE	<0.005	ppm	KB	07-FEB-00		6020
			SO4=	<2.0	ppm	JN	08-FEB-00		9036
			TDS	<10.	ppm	DC	31-JAN-00		160.1
			TSS	<1.0	ppm	DC	31-JAN-00		160.2
			ZN	<0.020	ppm	KB	07-FEB-00		6020
			AS	94	%Recovery	MK	16-FEB-00		6010
			CA	106	%Recovery	MK	16-FEB-00		6010
			CD	105	%Recovery	KB	07-FEB-00		6020
			CL-	105	%Recovery	JN	22-FEB-00		325.2
			COND.	99	%Recovery	BD	31-JAN-00		120.1
			CR	113	%Recovery	KB	07-FEB-00		6020
			CU	100	%Recovery	KB	07-FEB-00		6020
			F-	97	%Recovery	BD	04-FEB-00		340.2
			FE	109	%Recovery	MK	16-FEB-00		6010
			HCO3	96	%Recovery	DC	02-FEB-00		310.1
			K	96	%Recovery	MK	16-FEB-00		6010
			MG	107	%Recovery	MK	16-FEB-00		6010
			NA	108	%Recovery	BD	17-FEB-00		6010
			NO2/NO3	110	%Recovery	JN	28-FEB-00		353.2
			PB	114	%Recovery	KB	07-FEB-00		6020
			SE	115	%Recovery	KB	07-FEB-00		6020
			SO4=	103	%Recovery	JN	08-FEB-00		9036
			TDS	102	%Recovery	DC	31-JAN-00		160.1
			TSS	100	%Recovery	DC	31-JAN-00		160.2
			ZN	119	%Recovery	KB	07-FEB-00		6020
WG000088-8		Lab Control Sample	AS	94	%Recovery	MK	16-FEB-00		6010
			CA	106	%Recovery	MK	16-FEB-00		6010

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000088

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000088-9		Duplicate	AS	<1	% RPD	MK	16-FEB-00	6010	
			CA	<1	% RPD	MK	16-FEB-00	6010	
			CD	<1	% RPD	KB	07-FEB-00	6020	
			CL-	1.8	% RPD	JN	22-FEB-00	325.2	
			CO3	<1	% RPD	DC	03-FEB-00	310.1	
			COND.	<1	% RPD	BD	31-JAN-00	120.1	
			CR	<1	% RPD	KB	07-FEB-00	6020	
			CU	<1	% RPD	KB	07-FEB-00	6020	
			F-	5.5	% RPD	BD	04-FEB-00	340.2	
			FE	8.7	% RPD	MK	16-FEB-00	6010	
			HCO3	<1	% RPD	DC	02-FEB-00	310.1	
			K	5.0	% RPD	MK	16-FEB-00	6010	
			MG	<1	% RPD	MK	16-FEB-00	6010	
			NA	2.3	% RPD	BD	17-FEB-00	6010	
			NO2/NO3	13	% RPD	JN	28-FEB-00	353.2	
			PB	+/- prdl	% RPD	KB	07-FEB-00	6020	
			SE	<1	% RPD	KB	07-FEB-00	6020	
			SO4=	17	% RPD	JN	08-FEB-00	9036	
			TDS	2.0	% RPD	DC	31-JAN-00	160.1	
			TSS	<1	% RPD	DC	31-JAN-00	160.2	
			ZN	<1	% RPD	KB	07-FEB-00	6020	

*CPD*

Approved

*[Signature]*  
Reviewed

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

## CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS								REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH			
1-26-00	810			EPR1-0002-154	X	X			X						
	815			EPR1-0002-223	X	X			X						
	845			EPR1-0002-110	X	X			X						
	920			EPR1-0002-140	X	X			X						
	950			EPR1-0002-122	X	X			X						
	1020			EPR1-0002-119	X	X			X						
	1050			EPR1-0002-164	X	X			X						
	1310			EPR1-0002-120	X	X			X						
	1345			EPR1-0002-141	X	X			X						
	1420			EPR1-0002-142	X	X			X						
	1530			EPR1-0002-114	X	X			X						
	1600			EPR1-0002-224	X	X			X						
<del>_____</del>															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
<i>[Signature]</i>		1/27/00 16:00		<i>[Signature]</i>		STATE LAKE CITY, UT				Other					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
<i>[Signature]</i>				<i>[Signature]</i>											
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/ detection limits		QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter			
<i>[Signature]</i>				<i>[Signature]</i>				131.00		1625					
								Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined							

# LYNCHBURG, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME		NO. OF CONTAINERS		ANALYSIS								REMARKS
DATE	TIME	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH		
0931V2			ASARCO - EL PASO	3	X	X		X					
SAMPLERS: (Signature) <i>Douglas M. Sobor</i>													
12700	830		EPR1-0002-158	3	X	X		X					
850			EPR1-0002-160	3	X	X		X					
935			EPR1-0002-157	3	X	X		X					
1015			EPR1-0002-159	3	X	X		X					
1045			EPR1-0002-161	3	X	X		X					
1230			EPR1-0002-225	3	X	X		X					
1300			EPR1-0002-150	3	X	X		X					
1330			EPR1-0002-162	3	X	X		X					
1350			EPR1-0002-149	3	X	X		X					
1400			EPR1-0002-226	3	X	X		X					
1430			EPR1-0002-148	3	X	X		X					
1510			EPR1-0002-152	3	X	X		X					
<div> <div>Relinquished (Signature) <i>Douglas M. Sobor</i></div> <div>Date/Time 11/27/00 1600</div> </div> <div> <div>Received by: (Signature)</div> <div>Date/Time</div> </div>													
<div> <div>Relinquished (Signature)</div> <div>Date/Time</div> </div> <div> <div>Received by: (Signature)</div> <div>Date/Time</div> </div>													
<div> <div>Relinquished (Signature)</div> <div>Date/Time</div> </div> <div> <div>Received for Laboratory by: (Signature) <i>Howe</i></div> <div>Date/Time 1-28-00 1625</div> </div>													
<div> <div>Shipped via: Bus, Red EX, UPS</div> <div>Other</div> <div>Air Bill #</div> </div>												<div> <div>Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits</div> <div><input type="checkbox"/> QA/QC standard mixing instructions</div> <div><input checked="" type="checkbox"/> Cover letter</div> <div><input type="checkbox"/> Other</div> </div>	
<div> <div>Split Samples: <input type="checkbox"/> Accented <input type="checkbox"/> Declined</div> </div>													

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-001	24-JAN-00	EPRI-0002-155	AS	0.007	ppm	KB	08-FEB-00	180	6020
			CA	145.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	300.	ppm	JN	14-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	2810.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	0.75	ppm	BD	03-FEB-00	28	340.2
			FE	0.12	ppm	BD	16-FEB-00	180	6010
			HCO3	220.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	17.	ppm	MK	10-FEB-00	180	6010
			MG	59.	ppm	MK	10-FEB-00	180	6010
			NA	365.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	9.2	ppm	JN	27-JAN-00	28	353.2
			PB	0.015	ppm	KB	08-FEB-00	180	6020
			PH	7.9	pH	DC	02-FEB-00		150.1
			SE	0.019	ppm	KB	08-FEB-00	180	6020
			SO4=	824.	ppm	JN	07-FEB-00	28	9036
			TDS	1948.	ppm	DC	26-JAN-00	7	160.1
			TSS	3.2	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
L000105-002	24-JAN-00	EPRI-0002-174	AS	0.009	ppm	KB	08-FEB-00	180	6020
			CA	137.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	286.	ppm	JN	14-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	2750.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	0.76	ppm	BD	03-FEB-00	28	340.2
			FE	0.78	ppm	BD	16-FEB-00	180	6010
			HCO3	220.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	18.	ppm	MK	10-FEB-00	180	6010
			MG	58.	ppm	MK	10-FEB-00	180	6010
			NA	400.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	8.8	ppm	JN	27-JAN-00	28	353.2
			PB	0.020	ppm	KB	08-FEB-00	180	6020



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNIT'S	ANALYST	DATE ANALYZED	NO. OF DAYS	METHOD
L000105-002	24-JAN-00	EPRI-0002-174	PH	7.8	PH	DC	02-FEB-00	150.1	
			SE	0.017	ppm	KB	08-FEB-00	180	6020
			SO4=	782.	ppm	JN	07-FEB-00	28	9036
			TDS	1921.	ppm	DC	26-JAN-00	7	160.1
			TSS	18.	ppm	DC	26-JAN-00		160.2
			ZN	0.048	ppm	KB	08-FEB-00	180	6020
			AS	0.009	ppm	KB	08-FEB-00	180	6020
			CA	368.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	405.	ppm	JN	14-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	4380.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	K3	08-FEB-00		6020
L000105-003	24-JAN-00	EPRI-0002-135	F-	0.72	ppm	BD	03-FEB-00	28	340.2
			FE	0.12	ppm	BD	16-FEB-00	180	6010
			HCO3	202.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	12.	ppm	MK	10-FEB-00	180	6010
			MG	112.	ppm	MK	10-FEB-00	180	6010
			NA	432.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	20.	ppm	JN	27-JAN-00	28	353.2
			PB	0.011	ppm	KB	08-FEB-00	180	6020
			PH	7.5	PH	DC	02-FEB-00		150.1
			SE	0.10	ppm	KB	08-FEB-00	180	6020
			SO4=	2036.	ppm	JN	07-FEB-00	28	9036
			TDS	3619.	ppm	DC	26-JAN-00	7	160.1
			TSS	4.8	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
L000105-004	24-JAN-00	EPRI-0002-136	AS	0.11	ppm	KB	08-FEB-00	180	6020
			CA	302.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	503.	ppm	JN	14-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	5950.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	0.86	ppm	BD	03-FEB-00	28	340.2

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	RMID	DAIS	METHOD
L000105-004	24-JAN-00	EPRI-0002-138	FE	<0.10	ppm	BD	16-FEB-00	180		6010
			HCO3	233.	ppm	DC	02-FEB-00	14		310.1
			K	16.	ppm	MK	10-FEB-00	180		6010
			MG	142.	ppm	MK	10-FEB-00	180		6010
			NA	800.	ppm	BD	16-FEB-00	180		6010
			NO2/NO3	72.	ppm	JN	27-JAN-00	28		353.2
			PB	0.008	ppm	KB	08-FEB-00	180		6020
			PH	7.6	pH	DC	02-FEB-00			150.1
			SE	0.20	ppm	KB	08-FEB-00	180		6020
			SO4=	2438.	ppm	JN	07-FEB-00	28		9036
			TDS	4727.	ppm	DC	26-JAN-00	7		160.1
			TSS	2.2	ppm	DC	26-JAN-00			160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180		6020
			AS	0.63	ppm	KB	08-FEB-00	180		6020
			CA	260.	ppm	MK	10-FEB-00	180		6010
			CD	0.007	ppm	KB	08-FEB-00	180		6020
			CL-	561.	ppm	JN	15-FEB-00	28		325.2
			CO3	<1.0	ppm	DC	02-FEB-00			310.1
			COND.	6110.	umhos/cm2	BD	27-JAN-00	28		120.1
			CR	<0.010	ppm	KB	08-FEB-00	180		6020
L000105-005	24-JAN-00	EPRI-0002-137	CU	<0.025	ppm	KB	08-FEB-00			6020
			F-	1.0	ppm	BD	03-FEB-00	28		340.2
			FE	<0.10	ppm	BD	16-FEB-00	180		6010
			HCO3	240.	ppm	DC	02-FEB-00	14		310.1
			K	18.	ppm	MK	10-FEB-00	180		6010
			MG	134.	ppm	MK	10-FEB-00	180		6010
			NA	954.	ppm	BD	16-FEB-00	180		6010
			NO2/NO3	38.	ppm	JN	27-JAN-00	28		353.2
			PB	0.010	ppm	KB	08-FEB-00	180		6020
			PH	7.6	pH	DC	02-FEB-00			150.1
			SE	0.19	ppm	KB	08-FEB-00	180		6020
			SO4=	2485.	ppm	JN	07-FEB-00	28		9036
			TDS	4632.	ppm	DC	26-JAN-00	7		160.1
			TSS	2.8	ppm	DC	26-JAN-00			160.2
			ZN	0.12	ppm	KB	08-FEB-00	180		6020
			AS	0.64	ppm	KB	08-FEB-00	180		6020
			CA	262.	ppm	MK	10-FEB-00	180		6010
L000105-006	24-JAN-00	EPRI-0002-219	AS	0.64	ppm	KB	08-FEB-00	180		6020
			CA	262.	ppm	MK	10-FEB-00	180		6010

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	RECD DAYS METHOD
L000105-006	24-JAN-00	EPRI 0002 219	CD	0.008	ppm	KB	08-FEB-00	180 6020
			CL-	540.	ppm	JN	15-FEB-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			COND.	6100.	umhos/cm2	BD	27-JAN-00	28 120.1
			CR	<0.010	ppm	KB	08-FEB-00	180 6020
			CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	1.0	ppm	BD	03-FEB-00	28 340.2
			FE	<0.10	ppm	BD	16-FEB-00	180 6010
			HCO3	243.	ppm CaCO3	DC	02-FEB-00	14 310.1
			K	18.	ppm	MK	10-FEB-00	180 6010
			MG	135.	ppm	MK	10-FEB-00	180 6010
			NA	927.	ppm	BD	16-FEB-00	180 6010
			NO2/NO3	40.	ppm	JN	27-JAN-00	28 353.2
			PB	0.009	ppm	KB	08-FEB-00	180 6020
			PH	7.5	pH	DC	02-FEB-00	150.1
			SE	0.19	ppm	KB	08-FEB-00	180 6020
			SO4=	2483.	ppm	JN	07-FEB-00	28 9036
			TDS	4771.	ppm	DC	26-JAN-00	7 160.1
			TSS	2.7	ppm	DC	26-JAN-00	160.2
			ZN	0.12	ppm	KB	08-FEB-00	180 6020
			AS	0.065	ppm	KB	08-FEB-00	180 6020
			CA	250.	ppm	MK	10-FEB-00	180 6010
			CD	<0.005	ppm	KB	08-FEB-00	180 6020
			CL-	504.	ppm	JN	15-FEB-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			COND.	5700.	umhos/cm2	BD	27-JAN-00	28 120.1
			CR	<0.010	ppm	KB	08-FEB-00	180 6020
			CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	1.1	ppm	BD	03-FEB-00	28 340.2
			FE	0.86	ppm	BD	16-FEB-00	180 6010
L000105-007	24-JAN-00	EPRI-0002 139	HCO3	242.	ppm CaCO3	DC	02-FEB-00	14 310.1
			K	16.	ppm	MK	10-FEB-00	180 6010
			MG	148.	ppm	MK	10-FEB-00	180 6010
			NA	900.	ppm	BD	16-FEB-00	180 6010
			NO2/NO3	34.	ppm	JN	27-JAN-00	28 353.2
			PB	0.011	ppm	KB	08-FEB-00	180 6020
			PH	7.9	pH	DC	02-FEB-00	150.1
			SE	1.8	ppm	KB	08-FEB-00	180 6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-007	24-JAN-00	EPRI-0002-139	SO4=	2459.	ppm	JN	07-FEB-00	28	9036
			TDS	4539.	ppm	DC	26-JAN-00	7	160.1
			TSS	16.	ppm	DC	26-JAN-00		160.2
			ZN	0.053	ppm	KB	08-FEB-00	180	6020
			AS	0.012	ppm	KB	08-FEB-00	180	6020
			CA	335.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	1046.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	02-FEB-00		310.1
			COND.	6450.	umhos/cm2	BD	27-JAN-00	28	120.1
L000105-008	24-JAN-00	EPRI-0002-171	CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	0.92	ppm	BD	03-FEB-00	28	340.2
			FE	<0.10	ppm	BD	16-FEB-00	180	6010
			HCO3	150.	ppm	DC	02-FEB-00	14	310.1
			K	16.	ppm	MK	10-FEB-00	180	6010
			MG	169.	ppm	MK	10-FEB-00	180	6010
			NA	757.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	88.	ppm	JN	27-JAN-00	28	353.2
			PB	0.009	ppm	KB	08-FEB-00	180	6020
			PH	7.7	pH	DC	02-FEB-00		150.1
			SE	0.42	ppm	KB	08-FEB-00	180	6020
			SO4=	1925.	ppm	JN	07-FEB-00	28	9036
			TDS	4749.	ppm	DC	26-JAN-00	7	160.1
			TSS	2.4	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
			AS	0.080	ppm	KB	08-FEB-00	180	6020
			CA	124.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	498.	ppm	JN	15-FEB-00	28	325.2
L000105-009	24-JAN-00	EPRI-0002-168	CO3	<1.0	ppm	DC	02-FEB-00		310.1
			COND.	4640.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	2.1	ppm	BD	03-FEB-00	28	340.2
			FE	0.90	ppm	BD	16-FEB-00	180	6010
			HCO3	334.	ppm	DC	02-FEB-00	14	310.1

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-009	24-JAN-00	EPRI-0002-168	K	21.	ppm	MK	10-FEB-00	180	6010
			MG	72.	ppm	MK	10-FEB-00	180	6010
			NA	768.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	10.	ppm	JN	27-JAN-00	28	353.2
			PB	0.015	ppm	KB	08-FEB-00	180	6020
			PH	8.1	pH	DC	02-FEB-00	150.1	
			SE	0.093	ppm	KB	08-FEB-00	180	6020
			SO4=	1463.	ppm	JN	07-FEB-00	28	9036
			TDS	3203.	ppm	DC	08-FEB-00	7	160.1
			TSS	20.	ppm	DC	26-JAN-00	160.2	
			ZN	0.023	ppm	KB	08-FEB-00	180	6020
			AS	0.011	ppm	KB	08-FEB-00	180	6020
			CA	56.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	154.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm	CaCO3	02-FEB-00	310.1	
			COND.	1498.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00	6020	
			F-	0.65	ppm	BD	03-FEB-00	28	340.2
L000105-010	24-JAN-00	EPRI-0002-167	FE	0.55	ppm	BD	16-FEB-00	180	6010
			HCO3	149.	ppm	DC	02-FEB-00	14	310.1
			K	5.0	ppm	MK	10-FEB-00	180	6010
			MG	17.	ppm	MK	10-FEB-00	180	6010
			NA	213.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	1.1	ppm	JN	27-JAN-00	28	353.2
			PB	0.013	ppm	KB	08-FEB-00	180	6020
			PH	8.3	pH	DC	02-FEB-00	150.1	
			SE	0.16	ppm	KB	08-FEB-00	180	6020
			SO4=	312.	ppm	JN	07-FEB-00	28	9036
			TDS	928.	ppm	DC	26-JAN-00	7	160.1
			TSS	7.0	ppm	DC	26-JAN-00	160.2	
			ZN	0.020	ppm	KB	08-FEB-00	180	6020
			AS	0.12	ppm	KB	08-FEB-00	180	6020
			CA	204.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	494.	ppm	JN	15-FEB-00	28	325.2
L000105-011	24-JAN-00	EPRI-0002-156	AS	0.12	ppm	KB	08-FEB-00	180	6020
			CA	204.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	494.	ppm	JN	15-FEB-00	28	325.2
			AS	0.12	ppm	KB	08-FEB-00	180	6020
			CA	204.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	494.	ppm	JN	15-FEB-00	28	325.2
			AS	0.12	ppm	KB	08-FEB-00	180	6020
			CA	204.	ppm	MK	10-FEB-00	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-011	24-JAN-00	EPRI-0002-156	CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	5340.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	0.48	ppm	BD	03-FEB-00	28	340.2
			FE	2.0	ppm	BD	16-FEB-00	180	6010
			HCO3	283.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	11.	ppm	MK	10-FEB-00	180	6010
			MG	106.	ppm	MK	10-FEB-00	180	6010
			NA	756.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	33.	ppm	JN	27-JAN-00	28	353.2
			PB	0.011	ppm	KB	08-FEB-00	180	6020
			PH	7.8	pH	DC	02-FEB-00		150.1
			SE	1.2	ppm	KB	08-FEB-00	180	6020
			SO4=	2045.	ppm	JN	07-FEB-00	28	9036
			TDS	3948.	ppm	DC	26-JAN-00	7	160.1
			TSS	236.	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
L000105-012	24-JAN-00	EPRI-0002-107	AS	0.009	ppm	KB	08-FEB-00	180	6020
			CA	223.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	387.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	4560.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	0.71	ppm	BD	03-FEB-00	28	340.2
			FE	3.6	ppm	BD	16-FEB-00	180	6010
			HCO3	300.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	13.	ppm	MK	10-FEB-00	180	6010
			MG	76.	ppm	MK	10-FEB-00	180	6010
			NA	766.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	26.	ppm	JN	27-JAN-00	28	353.2
			PB	0.010	ppm	KB	08-FEB-00	180	6020
			PH	7.8	pH	DC	02-FEB-00		150.1
			SE	0.14	ppm	KB	08-FEB-00	180	6020
			SO4=	1509.	ppm	JN	07-FEB-00	28	9036
			TDS	2916.	ppm	DC	26-JAN-00	7	160.1

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Batch No: L000105

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-012	24-JAN-00	EPRI-0002-107	TSS	176.	ppm	DC	26-JAN-00	160.2	
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
L000105-013	24-JAN-00	EPRI-0002-200	AS	<0.005	ppm	KB	08-FEB-00	180	6020
			CA	<1.0	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	<1.0	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm	CaCO3	02-FEB-00		310.1
			COND.	<5.0	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	<0.050	ppm	BD	03-FEB-00	28	340.2
			FE	<0.10	ppm	BD	16-FEB-00	180	6010
			HCO3	2.8	ppm	CaCO3	02-FEB-00	14	310.1
			K	<5.0	ppm	MK	10-FEB-00	180	6010
			MG	<1.0	ppm	MK	10-FEB-00	180	6010
			NA	<5.0	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	<0.10	ppm	JN	27-JAN-00	28	353.2
			PB	0.009	ppm	KB	08-FEB-00	180	6020
			PH	5.9	PH	DC	02-FEB-00		150.1
			SE	0.005	ppm	KB	08-FEB-00	180	6020
			SO4=	<2.0	ppm	JN	07-FEB-00	28	9036
			TDS	<10.	ppm	DC	26-JAN-00	7	160.1
L000105-014	25-JAN-00	EPRI-0002-169	TSS	<1.0	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
			AS	0.40	ppm	KB	08-FEB-00	180	6020
			CA	147.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	398.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm	CaCO3	02-FEB-00		310.1
			COND.	3780.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	0.078	ppm	KB	08-FEB-00		6020
			F-	3.1	ppm	BD	03-FEB-00	28	340.2
			FE	5.7	ppm	MK	10-FEB-00	180	6010
			HCO3	220.	ppm	CaCO3	02-FEB-00	14	310.1
			K	18.	ppm	MK	10-FEB-00	180	6010
			MG	53.	ppm	MK	10-FEB-00	180	6010

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-014	25-JAN-00	EPRI-0002-169	NA	610.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	2.7	ppm	JN	27-JAN-00	28	353.2
			PB	0.076	ppm	KB	08-FEB-00	180	6020
			PH	8.0	pH	DC	02-FEB-00		150.1
			SE	0.034	ppm	KB	08-FEB-00	180	6020
			SO4=	1293.	ppm	JN	07-FEB-00	28	9036
			TDS	2704.	ppm	DC	26-JAN-00	7	160.1
			TSS	246.	ppm	DC	26-JAN-00		160.2
			ZN	0.18	ppm	KB	08-FEB-00	180	6020
			AS	<0.005	ppm	KB	08-FEB-00	180	6020
			CA	285.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	764.	ppm	JN	14-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	5800.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	0.014	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
L000105-015	25-JAN-00	EPRI-0002-136	F-	0.72	ppm	BD	03-FEB-00	28	340.2
			FE	2.5	ppm	BD	10-FEB-00	180	6010
			HCO3	192.	ppm CaCO3	MK	02-FEB-00	14	310.1
			K	16.	ppm	MK	10-FEB-00	180	6010
			MG	121.	ppm	MK	10-FEB-00	180	6010
			NA	769.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	24.	ppm	JN	27-JAN-00	28	353.2
			PB	0.010	ppm	KB	08-FEB-00	180	6020
			PH	7.8	pH	DC	02-FEB-00		150.1
			SE	0.27	ppm	KB	08-FEB-00	180	6020
			SO4=	2051.	ppm	JN	07-FEB-00	28	9036
			TDS	4210.	ppm	DC	26-JAN-00	7	160.1
			TSS	58.	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
			AS	0.005	ppm	KB	08-FEB-00	180	6020
			CA	314.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
L000105-016	25-JAN-00	EPRI-0002-221	CL-	783.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	5780.	umhos/cm2	BD	27-JAN-00	28	120.1
			AS	0.005	ppm	KB	08-FEB-00	180	6020
			CA	314.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020



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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD METHOD
L000105-016	25-JAN-00	EPRI-0002-221	CR	0.016	ppm	KB	08-FEB-00	180 6020
			CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	0.73	ppm	BD	03-FEB-00	28 340.2
			FE	4.6	ppm	MK	10-FEB-00	180 6010
			HCO3	195.	ppm	CaCO3	02-FEB-00	14 310.1
			K	17.	ppm	MK	10-FEB-00	180 6010
			MG	130.	ppm	MK	10-FEB-00	180 6010
			NA	814.	ppm	BD	16-FEB-00	180 6010
			NO2/NO3	30.	ppm	JN	27-JAN-00	28 353.2
			PB	0.010	ppm	KB	08-FEB-00	180 6020
			PH	7.7	pH	DC	02-FEB-00	150.1
			SE	0.26	ppm	KB	08-FEB-00	180 6020
			SO4=	2067.	ppm	JN	07-FEB-00	28 9036
			TDS	4237.	ppm	DC	26-JAN-00	7 160.1
			TSS	52.	ppm	DC	26-JAN-00	160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180 6020
L000105-017	25-JAN-00	EPRI-0002-170	AS	0.007	ppm	KB	08-FEB-00	180 6020
			CA	234.	ppm	MK	10-FEB-00	180 6010
			CD	<0.005	ppm	KB	08-FEB-00	180 6020
			CL-	423.	ppm	JN	14-FEB-00	28 325.2
			CO3	<1.0	ppm	CaCO3	02-FEB-00	310.1
			COND.	4950.	umhos/cm2	BD	27-JAN-00	28 120.1
			CR	<0.010	ppm	KB	08-FEB-00	180 6020
			CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	0.88	ppm	BD	03-FEB-00	28 340.2
			FE	0.60	ppm	MK	10-FEB-00	180 6010
			HCO3	244.	ppm	CaCO3	02-FEB-00	14 310.1
			K	14.	ppm	MK	10-FEB-00	180 6010
			MG	109.	ppm	MK	10-FEB-00	180 6010
			NA	777.	ppm	BD	16-FEB-00	180 6010
			NO2/NO3	9.2	ppm	JN	27-JAN-00	28 353.2
			PB	0.014	ppm	KB	08-FEB-00	180 6020
			PH	7.7	pH	DC	02-FEB-00	150.1
			SE	0.11	ppm	KB	08-FEB-00	180 6020
			SO4=	1960.	ppm	JN	07-FEB-00	28 9036
			TDS	3837.	ppm	DC	26-JAN-00	7 160.1
			TSS	17.	ppm	DC	26-JAN-00	160.2
			ZN	0.022	ppm	KB	08-FEB-00	180 6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-018	25-JAN-00	EPRI-0002-197	AS	<0.005	ppm	KB	08-FEB-00	180	6020
			CA	299.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	3020.	ppm	JN	14-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	02-FEB-00	310.1	
			COND.	9240.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00	6020	
			F-	1.2	ppm	BD	03-FEB-00	28	340.2
			FE	<0.10	ppm	MK	10-FEB-00	180	6010
			HCO3	128.	ppm	DC	02-FEB-00	14	310.1
			K	26.	ppm	MK	10-FEB-00	180	6010
			MG	141.	ppm	MK	10-FEB-00	180	6010
			NA	1287.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	0.20	ppm	JN	27-JAN-00	28	353.2
			PB	0.007	ppm	KB	08-FEB-00	180	6020
			PH	7.8	ppm	DC	02-FEB-00	150.1	
			SE	<0.005	ppm	KB	08-FEB-00	180	6020
			SO4=	433.	ppm	JN	07-FEB-00	28	9036
			TDS	5473.	ppm	DC	26-JAN-00	7	160.1
			TSS	6.0	ppm	DC	26-JAN-00	160.2	
			ZN	0.021	ppm	KB	08-FEB-00	180	6020
L000105-019	25-JAN-00	EPRI-0002-196	AS	1.0	ppm	MK	10-FEB-00	180	6010
			CA	236.	ppm	MK	10-FEB-00	180	6010
			CD	<0.005	ppm	KB	08-FEB-00	180	6020
			CL-	491.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	02-FEB-00	310.1	
			COND.	5330.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00	6020	
			F-	1.3	ppm	BD	03-FEB-00	28	340.2
			FE	1.2	ppm	MK	10-FEB-00	180	6010
			HCO3	298.	ppm	DC	02-FEB-00	14	310.1
			K	16.	ppm	MK	10-FEB-00	180	6010
			MG	86.	ppm	MK	10-FEB-00	180	6010
			NA	813.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	42.	ppm	JN	27-JAN-00	28	353.2
			PB	0.019	ppm	KB	08-FEB-00	180	6020

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Batch No: L000105

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	
							ANALYZED	DAYS METHOD
L000105-019	25-JAN-00	EPRI-0002-196	PH	7.7	pH	DC	02-FEB-00	150.1
			SE	0.12	ppm	KB	08-FEB-00	180 6020
			SO4=	1931.	ppm	JN	07-FEB-00	28 9036
			TDS	4038.	ppm	DC	26-JAN-00	7 160.1
			TSS	64.	ppm	DC	26-JAN-00	160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180 6020
			AS	1.5	ppm	MK	10-FEB-00	180 6010
			CA	303.	ppm	MK	10-FEB-00	180 6010
			CD	<0.005	ppm	KB	08-FEB-00	180 6020
			CL-	338.	ppm	JN	15-FEB-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			COND.	5130.	umhos/cm2	BD	27-JAN-00	28 120.1
			CR	<0.010	ppm	KB	08-FEB-00	180 6020
L000105-020	25-JAN-00	EPRI-0002-106	CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	1.6	ppm	BD	03-FEB-00	28 340.2
			FE	0.18	ppm	MK	10-FEB-00	180 6010
			HCO3	263.	ppm CaCO3	DC	02-FEB-00	14 310.1
			K	50.	ppm	MK	10-FEB-00	180 6010
			MG	78.	ppm	MK	10-FEB-00	180 6010
			NA	721.	ppm	BD	16-FEB-00	180 6010
			NO2/NO3	23.	ppm	JN	27-JAN-00	28 353.2
			PB	0.010	ppm	KB	08-FEB-00	180 6020
			PH	7.5	pH	DC	02-FEB-00	150.1
			SE	0.21	ppm	KB	08-FEB-00	180 6020
			SO4=	2150.	ppm	JN	07-FEB-00	28 9036
			TDS	4011.	ppm	DC	26-JAN-00	7 160.1
L000105-021	25-JAN-00	EPRI-0002-222	TSS	5.9	ppm	DC	26-JAN-00	160.2
			ZN	0.010	ppm	KB	08-FEB-00	180 6020
			AS	<0.005	ppm	KB	08-FEB-00	180 6020
			CA	<1.0	ppm	MK	10-FEB-00	180 6010
			CD	<0.005	ppm	KB	08-FEB-00	180 6020
			CL-	<1.0	ppm	JN	15-FEB-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			COND.	<5.0	umhos/cm2	BD	27-JAN-00	28 120.1
			CR	<0.010	ppm	KB	08-FEB-00	180 6020
			CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	<0.050	ppm	BD	03-FEB-00	28 340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	DATE HOLD	METHOD
L000105-021	25-JAN-00	EPRI-0002-222	FE	<0.10	ppm	MK	10-FEB-00	180	6010
			HCO3	<1.0	ppm	DC	02-FEB-00	14	310.1
			K	<5.0	ppm	MK	10-FEB-00	180	6010
			MG	<1.0	ppm	MK	10-FEB-00	180	6010
			NA	<5.0	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	0.11	ppm	JN	27-JAN-00	28	353.2
			PB	0.008	ppm	KB	08-FEB-00	180	6020
			PH	5.2	pH	DC	02-FEB-00		150.1
			SE	<0.005	ppm	KB	08-FEB-00	180	6020
			SO4=	<2.0	ppm	JN	07-FEB-00	28	9036
			TDS	<10.	ppm	DC	26-JAN-00	7	160.1
			TSS	<1.0	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00	180	6020
			AS	34.	ppm	MK	10-FEB-00	180	6010
			CA	256.	ppm	MK	10-FEB-00	180	6010
			CD	0.53	ppm	KB	08-FEB-00	180	6020
			CL-	700.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	02-FEB-00		310.1
			COND.	10170.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
L000105-022	25-JAN-00	EPRI-0002-105	CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	1.5	ppm	BD	03-FEB-00	28	340.2
			FE	0.47	ppm	MK	10-FEB-00	180	6010
			HCO3	305.	ppm	DC	02-FEB-00	14	310.1
			K	67.	ppm	MK	10-FEB-00	180	6010
			MG	47.	ppm	MK	10-FEB-00	180	6010
			NA	1986.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	96.	ppm	JN	27-JAN-00	28	353.2
			PB	0.025	ppm	KB	08-FEB-00	180	6020
			PH	7.8	pH	DC	02-FEB-00		150.1
			SE	4.5	ppm	KB	08-FEB-00	180	6020
			SO4=	3497.	ppm	JN	07-FEB-00	28	9036
			TDS	8099.	ppm	DC	26-JAN-00	7	160.1
			TSS	12.	ppm	DC	26-JAN-00		160.2
			ZN	0.020	ppm	KB	08-FEB-00	180	6020
			AS	4.5	ppm	MK	10-FEB-00	180	6010
			CA	162.	ppm	MK	10-FEB-00	180	6010
L000105-023	25-JAN-00	EPRI-0002-165							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000105-023	25-JAN-00	EPRI-0002-165	CD	0.72	ppm	KB	08-FEB-00	180	6020
			CL-	1463.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	8680.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	1.5	ppm	BD	03-FEB-00	28	340.2
			FE	1.6	ppm	MK	10-FEB-00	180	6010
			HCO3	255.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	49.	ppm	MK	10-FEB-00	180	6010
			MG	54.	ppm	MK	10-FEB-00	180	6010
			NA	1893.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	77.	ppm	JN	27-JAN-00	28	353.2
			PH	7.8	PH	KB	08-FEB-00	180	6020
			SE	2.8	ppm	DC	02-FEB-00		150.1
			SO4=	3062.	ppm	KB	08-FEB-00	180	6020
			TDS	6462.	ppm	JN	07-FEB-00	28	9036
			TSS	21.	ppm	DC	26-JAN-00	7	160.1
			ZN	21.	ppm	DC	26-JAN-00		160.2
				0.048	ppm	KB	08-FEB-00	180	6020
L000105-024	25-JAN-00	EPRI-0002-166	AS	0.21	ppm	KB	08-FEB-00	180	6020
			CA	125.	ppm	MK	10-FEB-00	180	6010
			CD	0.075	ppm	KB	08-FEB-00	180	6020
			CL-	216.	ppm	JN	15-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	2870.	umhos/cm2	BD	27-JAN-00	28	120.1
			CR	<0.010	ppm	KB	08-FEB-00	180	6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	1.9	ppm	BD	03-FEB-00	28	340.2
			FE	0.48	ppm	BD	16-FEB-00	180	6010
			HCO3	276.	ppm CaCO3	DC	02-FEB-00	14	310.1
			K	130.	ppm	MK	10-FEB-00	180	6010
			MG	22.	ppm	MK	10-FEB-00	180	6010
			NA	359.	ppm	BD	16-FEB-00	180	6010
			NO2/NO3	5.6	ppm	JN	27-JAN-00	28	353.2
			PH	0.012	ppm	KB	08-FEB-00	180	6020
			SE	7.9	PH	DC	02-FEB-00		150.1
				4.8	ppm	KB	08-FEB-00	180	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	BOB'S METHOD
L000105-024	25-JAN-00	EPRI-0002-166	SO4=	888.	ppm	JN	07-FEB-00 28	9036
			TDS	1954.	ppm	DC	26-JAN-00 7	160.1
			TSS	7.4	ppm	DC	26-JAN-00	160.2
			ZN	0.045	ppm	KB	08-FEB-00 180	6020
			AS	7.7	ppm	MK	10-FEB-00 180	6010
			CA	144.	ppm	MK	10-FEB-00 180	6010
			CD	0.012	ppm	KB	08-FEB-00 180	6020
			CL-	449.	ppm	JN	15-FEB-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			COND.	4500.	umhos/cm2	BD	27-JAN-00 28	120.1
L000105-025	25-JAN-00	EPRI-0002-143	CR	<0.010	ppm	KB	08-FEB-00 180	6020
			CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	3.5	ppm	BD	03-FEB-00 28	340.2
			FE	0.51	ppm	BD	16-FEB-00 180	6010
			HCO3	270.	ppm CaCO3	DC	02-FEB-00 14	310.1
			K	27.	ppm	MK	10-FEB-00 180	6010
			MG	36.	ppm	MK	10-FEB-00 180	6010
			NA	320.	ppm	BD	16-FEB-00 180	6010
			NO2/NO3	0.94	ppm	JN	27-JAN-00 28	353.2
			PB	0.012	ppm	KB	08-FEB-00 180	6020
			PH	8.2	pH	DC	02-FEB-00	150.1
			SE	0.023	ppm	KB	08-FEB-00 180	6020
			SO4=	1464.	ppm	JN	07-FEB-00 28	9036
			TDS	3152.	ppm	DC	26-JAN-00 7	160.1
			TSS	13.	ppm	DC	26-JAN-00	160.2
			ZN	<0.020	ppm	KB	08-FEB-00 180	6020
			AS	2.6	ppm	MK	10-FEB-00 180	6010
			CA	51.	ppm	MK	10-FEB-00 180	6010
			CD	0.016	ppm	KB	08-FEB-00 180	6020
			CL-	224.	ppm	JN	15-FEB-00 28	325.2
L000105-026	25-JAN-00	EPRI-0002-198	CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1
			COND.	2100.	umhos/cm2	BD	27-JAN-00 28	120.1
			CR	<0.010	ppm	KB	08-FEB-00 180	6020
			CU	<0.025	ppm	KB	08-FEB-00	6020
			F-	5.3	ppm	BD	03-FEB-00 28	340.2
			FE	0.53	ppm	BD	16-FEB-00 180	6010
			HCO3	141.	ppm CaCO3	DC	02-FEB-00 14	310.1

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD METHOD
L000105-026	25-JAN-00	EPRI 0002-199	K	21.	ppm	MK	10-FEB-00	180 6010
			MG	12.	ppm	MK	10-FEB-00	180 6010
			NA	351.	ppm	BD	16-FEB-00	180 6010
			NO2/NO3	0.11	ppm	JN	27-JAN-00	28 353.2
			PB	0.012	ppm	KB	08-FEB-00	180 6020
			PH	8.0	PH	DC	02-FEB-00	150.1
			SE	0.006	ppm	KB	08-FEB-00	180 6020
			SO4=	503.	ppm	JN	07-FEB-00	28 9036
			TDS	1320.	ppm	DC	26-JAN-00	7 160.1
			TSS	<1.0	ppm	DC	26-JAN-00	160.2
			ZN	0.072	ppm	KB	08-FEB-00	180 6020
			AS	0.024	ppm	KB	08-FEB-00	180 6020
			CA	109.	ppm	MK	10-FEB-00	180 6010
			CD	<0.005	ppm	KB	08-FEB-00	180 6020
			CL-	438.	ppm	JN	15-FEB-00	28 325.2
			CO3	<1.0	ppm	CaCO3	02-FEB-00	310.1
			COND.	4330.	umhos/cm2	BD	27-JAN-00	28 120.1
			CR	<0.010	ppm	KB	08-FEB-00	180 6020
			CU	0.025	ppm	KB	08-FEB-00	6020
			F-	2.0	ppm	BD	03-FEB-00	28 340.2
L000105-027	25-JAN-00	EPRI 0002-199	FE	<0.10	ppm	BD	16-FEB-00	180 6010
			HCO3	319.	ppm	DC	02-FEB-00	14 310.1
			K	13.	ppm	MK	10-FEB-00	180 6010
			MG	67.	ppm	MK	10-FEB-00	180 6010
			NA	738.	ppm	BD	16-FEB-00	180 6010
			NO2/NO3	7.2	ppm	JN	27-JAN-00	28 353.2
			PB	0.012	ppm	KB	08-FEB-00	180 6020
			PH	8.0	PH	DC	02-FEB-00	150.1
			SE	0.083	ppm	KB	08-FEB-00	180 6020
			SO4=	1210.	ppm	JN	07-FEB-00	28 9036
			TDS	3042.	ppm	DC	26-JAN-00	7 160.1
			TSS	<1.0	ppm	DC	26-JAN-00	160.2
			ZN	0.024	ppm	KB	08-FEB-00	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


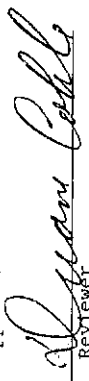
El Paso

Water and Solid Waste (Project 3220)

Batch No: L000105

LAB NO	DATE		DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		SOLD
	COLLECTED							ANALYZED		

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: WG000087

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000087-1		Matrix Spike	AS	93	%Recovery	KB	08-FEB-00	6020	
			CD	92	%Recovery	KB	08-FEB-00	6020	
			CL-	100	%Recovery	JN	15-FEB-00	325.2	
			CR	93	%Recovery	KB	08-FEB-00	6020	
			CU	84	%Recovery	KB	08-FEB-00	6020	
			F-	95	%Recovery	BD	03-FEB-00	340.2	
			FE	98	%Recovery	BD	16-FEB-00	6010	
			NO2/NO3	119	%Recovery	JN	27-JAN-00	353.2	
			PB	95	%Recovery	KB	08-FEB-00	6020	
			SE	94	%Recovery	KB	08-FEB-00	6020	
			SO4=	97	%Recovery	JN	07-FEB-00	9036	
			ZN	81	%Recovery	KB	08-FEB-00	6020	
			AS	<0.005	ppm	KB	08-FEB-00	6020	
			CA	<1.0	ppm	MK	10-FEB-00	6010	
			CD	<0.005	ppm	KB	08-FEB-00	6020	
			CL-	<1.0	ppm	JN	15-FEB-00	325.2	
			CO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1	
			COND.	<5.0	umhos/cm2	BD	27-JAN-00	120.1	
			CR	<0.010	ppm	KB	08-FEB-00	6020	
			CU	<0.025	ppm	KB	08-FEB-00	6020	
WG000087-2		Prep Blank	F-	<0.050	ppm	BD	03-FEB-00	340.2	
			FE	<0.10	ppm	BD	16-FEB-00	6010	
			HCO3	<1.0	ppm CaCO3	DC	02-FEB-00	310.1	
			K	<5.0	ppm	MK	10-FEB-00	6010	
			MG	<1.0	ppm	MK	10-FEB-00	6010	
			NA	<5.0	ppm	BD	16-FEB-00	6010	
			NO2/NO3	<0.10	ppm	JN	27-JAN-00	353.2	
			PB	<0.003	ppm	KB	08-FEB-00	6020	
			SE	<0.005	ppm	KB	08-FEB-00	6020	
			SO4=	<2.0	ppm	JN	07-FEB-00	9036	
			TDS	<10	ppm	DC	26-JAN-00	160.1	
			TSS	<1.0	ppm	DC	26-JAN-00	160.2	
			ZN	<0.020	ppm	KB	08-FEB-00	6020	
			AS	98	%Recovery	KB	08-FEB-00	6020	
			CA	110	%Recovery	MK	10-FEB-00	6010	
			CD	103	%Recovery	KB	08-FEB-00	6020	
			CL-	101	%Recovery	JN	15-FEB-00	325.2	
WG000087-3		Lab Control Sample	AS	98	%Recovery	KB	08-FEB-00	6020	
			CA	110	%Recovery	MK	10-FEB-00	6010	
			CD	103	%Recovery	KB	08-FEB-00	6020	
			CL-	101	%Recovery	JN	15-FEB-00	325.2	

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000087

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000087-3		Lab Control Sample							
			COND.	100	% Recovery	BD	27-JAN-00	120.1	
			CR	93	% Recovery	KB	08-FEB-00	6020	
			CU	93	% Recovery	KB	08-FEB-00	6020	
			F-	102	% Recovery	BD	03-FEB-00	340.2	
			FE	95	% Recovery	BD	16-FEB-00	6010	
			HCO3	98	% Recovery	DC	02-FEB-00	310.1	
			K	93	% Recovery	MK	10-FEB-00	6010	
			MG	110	% Recovery	MK	10-FEB-00	6010	
			NA	88	% Recovery	BD	16-FEB-00	6010	
			NO2/NO3	103	% Recovery	JN	27-JAN-00	353.2	
			PB	106	% Recovery	KB	08-FEB-00	6020	
			SE	103	% Recovery	KB	08-FEB-00	6020	
			SO4=	104	% Recovery	JN	07-FEB-00	9036	
			TDS	99	% Recovery	DC	26-JAN-00	160.1	
			TSS	99	% Recovery	DC	26-JAN-00	160.2	
			ZN	98	% Recovery	KB	08-FEB-00	6020	
WG000087-4		Duplicate							
			AS	<1	% RPD	KB	08-FEB-00	6020	
			CA	3.5	% RPD	MK	10-FEB-00	6010	
			CD	<1	% RPD	KB	08-FEB-00	6020	
			CL-	8.1	% RPD	JN	15-FEB-00	325.2	
			CO3	<1	% RPD	DC	02-FEB-00	310.1	
			COND.	<1	% RPD	BD	27-JAN-00	120.1	
			CR	<1	% RPD	KB	08-FEB-00	6020	
			CU	<1	% RPD	KB	08-FEB-00	6020	
			F-	<1	% RPD	BD	03-FEB-00	340.2	
			FE	+/-prdl	% RPD	BD	16-FEB-00	6010	
			HCO3	<1	% RPD	DC	02-FEB-00	310.1	
			K	<1	% RPD	MK	10-FEB-00	6010	
			MG	5.1	% RPD	MK	10-FEB-00	6010	
			NA	3.5	% RPD	BD	16-FEB-00	6010	
			NO2/NO3	6.1	% RPD	JN	27-JAN-00	353.2	
			PB	<1	% RPD	KB	08-FEB-00	6020	
			SE	<1	% RPD	KB	08-FEB-00	6020	
			SO4=	15.	% RPD	JN	07-FEB-00	9036	
			TDS	<1	% RPD	DC	26-JAN-00	160.1	
			TSS	1.0	% RPD	DC	26-JAN-00	160.2	
			ZN	1.4	% RPD	KB	08-FEB-00	6020	

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WC000087

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000087-5		Practical Quantitation 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				6020
			CU	0.025	ppm				6020
			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				6020
WG000087-6		Matrix Spike	AS	100	%Recovery	MK	10-FEB-00		6010
			CD	95	%Recovery	KB	15-FEB-00		6020
			CL-	100	%Recovery	JN	15-FEB-00		325.2
			CR	92	%Recovery	KB	14-FEB-00		6020
			CU	90	%Recovery	KB	14-FEB-00		6020
			F-	96	%Recovery	BD	03-FEB-00		340.2
			FE	97	%Recovery	MK	10-FEB-00		6010
			NO2/NO3	112	%Recovery	JN	27-JAN-00		353.2
			PB	99	%Recovery	KB	15-FEB-00		6020
			SE	95	%Recovery	KB	15-FEB-00		6020
			SO4=	108	%Recovery	JN	07-FEB-00		9036
			ZN	89	%Recovery	KB	15-FEB-00		6020
			AS	<0.020	ppm	MK	10-FEB-00		6010
			CA	<1.0	ppm	MK	10-FEB-00		6010
			CD	<0.005	ppm	KB	08-FEB-00		6020
			CL-	<1.0	ppm	JN	15-FEB-00		325.2
WG000087-7		prep Blank	AS						
			CA						
			CL-						

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000087

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000087-7		Prep Blank	CO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			COND.	<5.0	umhos/cm2	BD	27-JAN-00		120.1
			CR	<0.010	ppm	KB	08-FEB-00		6020
			CU	<0.025	ppm	KB	08-FEB-00		6020
			F-	<0.050	ppm	BD	03-FEB-00		340.2
			FE	<0.10	ppm	MK	10-FEB-00		6010
			HCO3	<1.0	ppm CaCO3	DC	02-FEB-00		310.1
			K	<5.0	ppm	MK	10-FEB-00		6010
			MG	<1.0	ppm	MK	10-FEB-00		6010
			NA	<5.0	ppm	BD	16-FEB-00		6010
			NO2/NO3	<0.10	ppm	JN	27-JAN-00		353.2
			PB	<0.003	ppm	KB	08-FEB-00		6020
			SE	<0.005	ppm	KB	08-FEB-00		6020
			SO4=	<2.0	ppm	JN	07-FEB-00		9036
			TDS	<1.0	ppm	DC	26-JAN-00		160.1
			TSS	<1.0	ppm	DC	26-JAN-00		160.2
			ZN	<0.020	ppm	KB	08-FEB-00		6020
			AS	100	%Recovery	MK	10-FEB-00		6010
			CA	105	%Recovery	MK	10-FEB-00		6010
			CD	104	%Recovery	KB	08-FEB-00		6020
WG000087-8		Lab Control Sample	CL-	98	%Recovery	JN	15-FEB-00		325.2
			COND.	100	%Recovery	BD	27-JAN-00		120.1
			CR	100	%Recovery	KB	08-FEB-00		6020
			CU	96	%Recovery	KB	08-FEB-00		6020
			F-	94	%Recovery	BD	03-FEB-00		340.2
			FE	99	%Recovery	MK	10-FEB-00		6010
			HCO3	97	%Recovery	DC	02-FEB-00		310.1
			K	93	%Recovery	MK	10-FEB-00		6010
			MG	93	%Recovery	MK	10-FEB-00		6010
			NA	95	%Recovery	BD	16-FEB-00		6010
			NO2/NO3	100	%Recovery	JN	27-JAN-00		353.2
			PB	104	%Recovery	KB	08-FEB-00		6020
			SE	102	%Recovery	KB	08-FEB-00		6020
			SO4=	102	%Recovery	JN	07-FEB-00		9036
			TDS	99	%Recovery	DC	26-JAN-00		160.1
			TSS	99	%Recovery	DC	26-JAN-00		160.2
			ZN	106	%Recovery	KB	08-FEB-00		6020

ASARCO TECHNICAL SERVICES CENTER


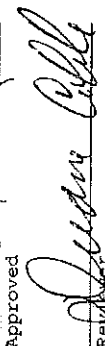
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000087

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000087-9		Duplicate	AS	<1	% RPD	MK	10-FEB-00	6010	
			CA	1.9	% RPD	MK	10-FEB-00	6010	
			CD	<1	% RPD	KB	08-FEB-00	6020	
			CL-	4.6	% RPD	JN	15-FEB-00	325.2	
			CO3	<1	% RPD	DC	02-FEB-00	310.1	
			COND.	<1	% RPD	BO	27-JAN-00	120.1	
			CR	<1	% RPD	KB	08-FEB-00	6020	
			CU	<1	% RPD	KB	08-FEB-00	6020	
			F-	<1	% RPD	BD	03-FEB-00	340.2	
			FE	18	% RPD	MK	10-FEB-00	6010	
			HCO3	<1	% RPD	DC	02-FEB-00	310.1	
			K	4.7	% RPD	MK	10-FEB-00	6010	
			MG	<1	% RPD	MK	10-FEB-00	6010	
			NA	<1	% RPD	BD	16-FEB-00	6010	
			NO2/NO3	16	% RPD	JN	27-JAN-00	353.2	
			PB	6.5	% RPD	KB	08-FEB-00	6020	
			SE	5.4	% RPD	KB	08-FEB-00	6020	
			SO4=	13	% RPD	JN	07-FEB-00	9036	
			TDS	<1	% RPD	DC	26-JAN-00	160.1	
			TSS	<1	% RPD	DC	26-JAN-00	160.2	
			ZN	<1	% RPD	KB	08-FEB-00	6020	

  
 Approved  
  
 Rechecked

# HYDROMETRICS, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CON-TAINERS		ANALYSIS								REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTX	TPH	REMARKS		
1-24-00	845			EPR1-0002-155	X	X			X						
	915			EPR1-0002-174	X	X			X						
	940			EPR1-0002-135	X	X			X						
	1000			EPR1-0002-138	X	X			X						
	1020			EPR1-0002-137	X	X			X						
	1030			EPR1-0002-219	X	X			X						
	1100			EPR1-0002-139	X	X			X						
	1315			EPR1-0002-171	X	X			X						
	1440			EPR1-0002-168	X	X			X						
	1510			EPR1-0002-167	X	X			X						
	1540			EPR1-0002-156	X	X			X						
	1600			EPR1-0002-107	X	X			X						
	1630			EPR1-0002-200	X	X			X						
<div> <div>Relinquished (Signature)</div> <div>Received by: (Signature)</div> </div>															
<div> <div>Relinquished (Signature)</div> <div>Received by: (Signature)</div> </div>															
<div> <div>Relinquished (Signature)</div> <div>Received by: (Signature)</div> </div>															

Lab	TSC	P.O. #	Shipped via: Bus, Fed Ex, UPS Other
Remarks	SALT LAKE CITY, UT		

Enclosed:	<input checked="" type="checkbox"/> Parameter sheet w/ detection limits
	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter
	<input type="checkbox"/> Other

Date/Time	1-26-00	1130
Date/Time		
Date/Time		

Return results & electronic copy to:

# HYGIENICS, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS							REMARKS	
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>		BTEX
1-25-00	930				3	X	X			X			
	830				3	X	X			X			
	830				3	X	X			X			
	910				3	X	X			X			
	1010				3	X	X			X			
	1040				3	X	X			X			
	1115				3	X	X			X			
	1230				3	X	X			X			
	1250				3	X	X			X			
	1315				3	X	X			X			
	1345				3	X	X			X			
	1415				3	X	X			X			
	1440				3	X	X			X			
	1500				3	X	X			X			

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	1/25/00 16:00		TSC		Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks	Air Bill #	
			SALT LAKE CITY, UT		

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
		<i>[Signature]</i>	1-26-00 1130	<input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Other

Return results & electronic copy to:

Split Samples:  
☐ Accepted ☐ Declined

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000197

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000197-001	14-FEB-00	EPRI-0002-184	AS	0.013	ppm	KPB	23-FEB-00	180	6020M
			CA	119.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	297.	ppm	JN	23-FEB-00	28	325.2
			CO3	20.	ppm	CaCO3	22-FEB-00	310.1	
			COND.	2330.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00	6020M	
			F-	0.85	ppm	BD	15-FEB-00	28	340.2
			FE	0.48	ppm	KPB	18-FEB-00	180	6010
			HCO3	225.	ppm	DC	22-FEB-00	14	310.1
			K	13.	ppm	MDK	18-FEB-00	180	6010
			MG	31.	ppm	MDK	18-FEB-00	180	6010
			NA	315.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.3	ppm	JN	01-MAR-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	8.5	pH	DC	22-FEB-00	150.1	
			SE	0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	593.	ppm	JN	29-FEB-00	28	9036
			TDS	1551.	ppm	AKH	15-FEB-00	7	160.1
			TSS	24.	ppm	AKH	15-FEB-00	160.2	
			ZN	<0.020	ppm	MDK	18-FEB-00	180	6010
L000197-002	14-FEB-00	EPRI-0002-186	AS	0.016	ppm	KPB	23-FEB-00	180	6020M
			CA	112.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	315.	ppm	JN	23-FEB-00	28	325.2
			CO3	12.	ppm	CaCO3	22-FEB-00	310.1	
			COND.	2440.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00	6020M	
			F-	0.88	ppm	BD	15-FEB-00	28	340.2
			FE	0.34	ppm	KPB	18-FEB-00	180	6010
			HCO3	221.	ppm	DC	22-FEB-00	14	310.1
			K	13.	ppm	MDK	18-FEB-00	180	6010
			MG	32.	ppm	MDK	18-FEB-00	180	6010
			NA	334.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.7	ppm	JN	01-MAR-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000197-002	14-FEB-00	EPRI-0002-186	PH	8.4	pH	DC	22-FEB-00	150.1	
			SE	0.006	ppm	KPB	23-FEB-00	180	6020M
			SO4=	501.	ppm	JN	29-FEB-00	28	9036
			TDS	1574.	ppm	AKH	15-FEB-00	7	160.1
			TSS	61.	ppm	AKH	15-FEB-00		160.2
			ZN	<0.020	ppm	MDK	18-FEB-00	180	6010
			AS	0.008	ppm	KPB	23-FEB-00	180	6020M
			CA	100.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	185.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1.0	ppm	CaCO3	22-FEB-00		310.1
			COND.	2120.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.81	ppm	BD	15-FEB-00	28	340.2
			FE	0.66	ppm	KPB	18-FEB-00	180	6010
L000197-003	14-FEB-00	EPRI-0002-189	HCO3	202.	ppm	CaCO3	22-FEB-00	14	310.1
			K	12.	ppm	MDK	18-FEB-00	180	6010
			MG	23.	ppm	MDK	18-FEB-00	180	6010
			NA	285.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	2.7	ppm	JN	01-MAR-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	8.3	pH	DC	22-FEB-00		150.1
			SE	<0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	341.	ppm	JN	29-FEB-00	28	9036
			TDS	1341.	ppm	AKH	15-FEB-00	7	160.1
			TSS	36.	ppm	AKH	15-FEB-00		160.2
			ZN	0.023	ppm	MDK	18-FEB-00	180	6010
			AS	0.012	ppm	KPB	23-FEB-00	180	6020M
			CA	108.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	290.	ppm	JN	23-FEB-00	28	325.2
L000197-004	14-FEB-00	EPRI-0002-190	CO3	24.	ppm	CaCO3	22-FEB-00		310.1
			COND.	2210.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.87	ppm	BD	15-FEB-00	28	340.2
			AS	0.012	ppm	KPB	23-FEB-00	180	6020M
			CA	108.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	290.	ppm	JN	23-FEB-00	28	325.2
			CO3	24.	ppm	CaCO3	22-FEB-00		310.1

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD DAYS	METHOD
L000197-004	14-FEB-00	EPRI-0002-190	FE	0.79	ppm	KPB	18-FEB-00	180	6010
			HCO3	209.	ppm	DC	22-FEB-00	14	310.1
			K	13.	ppm	MDK	18-FEB-00	180	6010
			MG	26.	ppm	MDK	18-FEB-00	180	6010
			NA	294.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.6	ppm	JN	01-MAR-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	8.5	pH	DC	22-FEB-00		150.1
			SE	0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	382.	ppm	JN	29-FEB-00	28	9036
			TDS	1458.	ppm	AKH	15-FEB-00	7	160.1
			TSS	35.	ppm	AKH	15-FEB-00		160.2
			ZN	<0.020	ppm	MDK	18-FEB-00	180	6010
			AS	0.014	ppm	KPB	23-FEB-00	180	6020M
			CA	112.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	310.	ppm	JN	23-FEB-00	28	325.2
			CO3	23.	ppm	CaCO3	22-FEB-00		310.1
			COND.	2300.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
L000197-005	14-FEB-00	EPRI-0002-191	CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.86	ppm	BD	15-FEB-00	28	340.2
			FE	0.47	ppm	KPB	18-FEB-00	180	6010
			HCO3	202.	ppm	DC	22-FEB-00	14	310.1
			K	14.	ppm	MDK	18-FEB-00	180	6010
			MG	29.	ppm	MDK	18-FEB-00	180	6010
			NA	315.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.6	ppm	JN	01-MAR-00	28	353.2
			PB	0.013	ppm	KPB	23-FEB-00	180	6020M
			PH	8.6	pH	DC	22-FEB-00		150.1
			SE	0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	344.	ppm	JN	29-FEB-00	28	9036
			TDS	1517.	ppm	AKH	15-FEB-00	7	160.1
			TSS	17.	ppm	AKH	15-FEB-00		160.2
			ZN	0.029	ppm	MDK	18-FEB-00	180	6010
			AS	0.013	ppm	KPB	23-FEB-00	180	6020M
			CA	113.	ppm	MDK	18-FEB-00	180	6010
L000197-006	14-FEB-00	EPRI-0002-192	AS	0.013	ppm	KPB	23-FEB-00	180	6020M
			CA	113.	ppm	MDK	18-FEB-00	180	6010

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000197-006	14-FEB-00	EPRI-0002-192	CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	299.	ppm	JN	23-FEB-00	28	325.2
			CO3	20.	ppm CaCO3	DC	22-FEB-00		310.1
			COND.	2330.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.90	ppm	BD	15-FEB-00	28	340.2
			FE	0.66	ppm	KPB	18-FEB-00	180	6010
			HCO3	232.	ppm CaCO3	DC	22-FEB-00	14	310.1
			K	13.	ppm	MDK	18-FEB-00	180	6010
			MG	30.	ppm	MDK	18-FEB-00	180	6010
			NA	315.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.5	ppm	JN	01-MAR-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	8.5	pH	DC	22-FEB-00		150.1
			SE	0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	598.	ppm	JN	29-FEB-00	28	9036
			TDS	1525.	ppm	AKH	15-FEB-00	7	160.1
			TSS	22.	ppm	AKH	15-FEB-00		160.2
			ZN	<0.020	ppm	MDK	18-FEB-00	180	6010
			AS	0.014	ppm	KPB	23-FEB-00	180	6020M
			CA	117.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	291.	ppm	JN	23-FEB-00	28	325.2
			CO3	16.	ppm CaCO3	DC	22-FEB-00		310.1
			COND.	2330.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.86	ppm	BD	15-FEB-00	28	340.2
			FE	0.46	ppm	KPB	18-FEB-00	180	6010
			HCO3	227.	ppm CaCO3	DC	22-FEB-00	14	310.1
			K	14.	ppm	MDK	18-FEB-00	180	6010
			MG	31.	ppm	MDK	18-FEB-00	180	6010
			NA	316.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.5	ppm	JN	01-MAR-00	28	353.2
			PB	0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	8.5	pH	DC	22-FEB-00		150.1
			SE	0.005	ppm	KPB	23-FEB-00	180	6020M
L000197-007	14-FEB-00	EPRI-0002-193	AS	0.014	ppm	KPB	23-FEB-00	180	6020M
			CA	117.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	291.	ppm	JN	23-FEB-00	28	325.2
			CO3	16.	ppm CaCO3	DC	22-FEB-00		310.1
			COND.	2330.	umhos/cm2	AKH	16-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.86	ppm	BD	15-FEB-00	28	340.2
			FE	0.46	ppm	KPB	18-FEB-00	180	6010
			HCO3	227.	ppm CaCO3	DC	22-FEB-00	14	310.1
			K	14.	ppm	MDK	18-FEB-00	180	6010
			MG	31.	ppm	MDK	18-FEB-00	180	6010
			NA	316.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.5	ppm	JN	01-MAR-00	28	353.2
			PB	0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	8.5	pH	DC	22-FEB-00		150.1
			SE	0.005	ppm	KPB	23-FEB-00	180	6020M

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	TEST METHOD
L000197-007	14-FEB-00	EPRI-0002-193	SO4=	575.	ppm	JN	29-FEB-00	28	9036
			TDS	1554.	ppm	AKH	15-FEB-00	7	160.1
			TSS	17.	ppm	AKH	15-FEB-00		160.2
			ZN	<0.020	ppm	MDK	18-FEB-00	180	6010
			AS	0.013	ppm	KPB	23-FEB-00	180	6020M
			CA	113.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	291.	ppm	JN	23-FEB-00	28	325.2
			CO3	24.	ppm CaCO3	DC	22-FEB-00		310.1
			COND.	2320.	umhos/cm2	AKH	16-FEB-00	28	120.1
L000197-008	14-FEB-00	EPRI-0002-239	CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.86	ppm	BD	15-FEB-00	28	340.2
			FE	0.60	ppm	KPB	18-FEB-00	180	6010
			HCO3	216.	ppm CaCO3	DC	22-FEB-00	14	310.1
			K	14.	ppm	MDK	18-FEB-00	180	6010
			MG	31.	ppm	MDK	18-FEB-00	180	6010
			NA	319.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.5	ppm	JN	01-MAR-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	8.5	pH	DC	22-FEB-00		150.1
			SE	0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	484.	ppm	JN	29-FEB-00	28	9036
			TDS	1534.	ppm	AKH	15-FEB-00	7	160.1
			TSS	17.	ppm	AKH	15-FEB-00		160.2
			ZN	<0.020	ppm	MDK	18-FEB-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT



El Paso

Water and Solid Waste (Project 3220)

Batch No: L000197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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pH is a field parameter. Holding time is always exceeded on this parameter.  
Methods of digestion were 3010 for ICP analysis and 6020M for ICP-MS analysis.

  
 Approved  
  
 Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000102

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000102-1		Matrix Spike	AS	86	%Recovery	KPB	23-FEB-00		6020M
			CD	92	%Recovery	KPB	23-FEB-00		6020M
			CL-	89	%Recovery	JN	23-FEB-00		325.2
			CR	81	%Recovery	KPB	23-FEB-00		6020M
			CU	76	%Recovery	KPB	23-FEB-00		6020M
			F-	99	%Recovery	BD	15-FEB-00		340.2
			FE	86	%Recovery	KPB	18-FEB-00		6010
			NO2/NO3	117	%Recovery	JN	01-MAR-00		353.2
			PB	92	%Recovery	KPB	23-FEB-00		6020M
			SE	81	%Recovery	KPB	23-FEB-00		6020M
			SO4=	94	%Recovery	JN	29-FEB-00		9036
			ZN	104	%Recovery	MDK	18-FEB-00		6010
			AS	<0.005	ppm	KPB	23-FEB-00		6020M
			CA	<1.	ppm	MDK	18-FEB-00		6010
			CD	<0.005	ppm	KPB	23-FEB-00		6020M
			CL-	<1.0	ppm	JN	23-FEB-00		325.2
			CO3	<1.0	ppm CaCO3	DC	22-FEB-00		310.1
			COND.	<10.	umhos/cm2	AKH	16-FEB-00		120.1
			CR	<0.010	ppm	KPB	23-FEB-00		6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
WG000102-2		Prep Blank	F-	<0.05	ppm	BD	15-FEB-00		340.2
			FE	<0.10	ppm	KPB	18-FEB-00		6010
			HCO3	<1.0	ppm CaCO3	DC	22-FEB-00		310.1
			K	<5.0	ppm	MDK	18-FEB-00		6010
			MG	<1.0	ppm	MDK	18-FEB-00		6010
			NA	<5.0	ppm	MDK	18-FEB-00		6010
			NO2/NO3	<0.050	ppm	JN	01-MAR-00		353.2
			PB	<0.003	ppm	KPB	23-FEB-00		6020M
			PH	5.0	pH	DC	22-FEB-00		150.1
			SE	<0.005	ppm	KPB	23-FEB-00		6020M
			SO4=	<1.0	ppm	JN	29-FEB-00		9036
			TDS	<10.	ppm	AKH	15-FEB-00		160.1
			TSS	<1.	ppm	AKH	15-FEB-00		160.2
			ZN	<0.020	ppm	MDK	18-FEB-00		6010
			AS	96	%Recovery	KPB	23-FEB-00		6020M
			CA	105	%Recovery	MDK	18-FEB-00		6010
			CD	99	%Recovery	KPB	23-FEB-00		6020M
WG000102-3		Lab Control Sample	AS	96	%Recovery	KPB	23-FEB-00		6020M
			CA	105	%Recovery	MDK	18-FEB-00		6010
			CD	99	%Recovery	KPB	23-FEB-00		6020M

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000102-3		Lab Control Sample	CL-	86	% Recovery	JN	23-FEB-00		325.2
			COND.	101	% Recovery	AKH	16-FEB-00		120.1
			CR	112	% Recovery	KPB	23-FEB-00		6020M
			CU	101	% Recovery	KPB	23-FEB-00		6020M
			F-	94	% Recovery	BD	15-FEB-00		340.2
			FE	111	% Recovery	KPB	18-FEB-00		6010
			HCO3	100	% Recovery	DC	22-FEB-00		310.1
			K	98	% Recovery	MDK	18-FEB-00		6010
			MG	104	% Recovery	MDK	18-FEB-00		6010
			NA	90	% Recovery	MDK	18-FEB-00		6010
			NO2/NO3	105	% Recovery	JN	01-MAR-00		353.2
			PB	101	% Recovery	KPB	23-FEB-00		6020M
			PH	99	% Recovery	DC	22-FEB-00		150.1
			SE	90	% Recovery	KPB	23-FEB-00		6020M
			SO4=	97	% Recovery	JN	29-FEB-00		9036
			TDS	100	% Recovery	AKH	15-FEB-00		160.1
			TSS	100	% Recovery	AKH	15-FEB-00		160.2
			ZN	96	% Recovery	MDK	18-FEB-00		6010
WG000102-4		Duplicate	AS	<1	% RPD	KPB	23-FEB-00		6020M
			CA	2.6	% RPD	MDK	18-FEB-00		6010
			CD	<1	% RPD	KPB	23-FEB-00		6020M
			CL-	3.2	% RPD	JN	23-FEB-00		325.2
			CO3	8.7	% RPD	DC	22-FEB-00		310.1
			COND.	1.3	% RPD	AKH	16-FEB-00		120.1
			CR	<1	% RPD	KPB	23-FEB-00		6020M
			CU	<1	% RPD	KPB	23-FEB-00		6020M
			F-	2.4	% RPD	BD	15-FEB-00		340.2
			FE	12	% RPD	KPB	18-FEB-00		6010
			HCO3	<1	% RPD	DC	22-FEB-00		310.1
			K	<1	% RPD	MDK	18-FEB-00		6010
			MG	3.3	% RPD	MDK	18-FEB-00		6010
			NA	<1	% RPD	MDK	18-FEB-00		6010
			NO2/NO3	1.8	% RPD	JN	01-MAR-00		353.2
			PB	<1	% RPD	KPB	23-FEB-00		6020M
			PH	<1	% RPD	DC	22-FEB-00		150.1
			SE	<1	% RPD	KPB	23-FEB-00		6020M
			SO4=	3.2	% RPD	JN	29-FEB-00		9036
			TDS	<1	% RPD	AKH	15-FEB-00		160.1

ASARCO TECHNICAL SERVICES CENTER

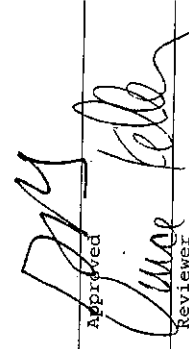
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000102

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000102-4		Duplicate	TSS	4.2	% RPD	AKH	15-FEB-00		160.2
			ZN	<1	% RPD	MDK	18-FEB-00		6010
WG000102-5		Practical Quantitation Limit	AS	0.005	ppm				6020M
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	10.	umhos/cm2				120.1
			CR	0.010	ppm				6020M
			CU	0.025	ppm				6020M
			F-	0.05	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	0.050	ppm				353.2
			PB	0.003	ppm				6020M
			SE	0.005	ppm				6020M
			SO4=	1.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6010

Approved:   
 Julie Keller  
 Reviewer



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## ASARCO TECHNICAL SERVICES CENTER.

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD	METHOD
L000176-001	01-FEB-00	EPRI-0002-109	AS	0.064	ppm	KPB	23-FEB-00	180	6020M
			CA	25.	ppm	MDK	18-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	638.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm	DC	15-FEB-00	310.1	
			COND.	4880.	umhos/cm2	BD	14-FEB-00	28	120.1
			KPB	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00	180	6020M
			F-	6.6	ppm	BD	11-FEB-00	28	340.2
			FE	1.8	ppm	MDK	18-FEB-00	180	6010
			HCO3	1750.	ppm	DC	15-FEB-00	14	310.1
			K	322.	ppm	MDK	18-FEB-00	180	6010
			MG	36.	ppm	MDK	18-FEB-00	180	6010
			NA	714.	ppm	MDK	18-FEB-00	180	6010
			NO2/NO3	1.2	ppm	JN	01-MAR-00	28	353.2
			PB	0.007	ppm	KPB	23-FEB-00	180	6020M
			PH	8.1	ph	DC	15-FEB-00	150.1	
			SE	0.071	ppm	KPB	23-FEB-00	180	6020M
			SO4=	104.	ppm	JN	09-FEB-00	28	9036
			TDS	2942.	ppm	AKH	10-FEB-00	7	160.1
			TSS	3499.	ppm	AKH	09-FEB-00	160.2	
			ZN	0.15	ppm	KPB	23-FEB-00	180	6020M
L000176-002	01-FEB-00	EPRI-0002-234	AS	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CA	<1.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	<1.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm	DC	15-FEB-00	310.1	
			COND.	<10.	umhos/cm2	BD	14-FEB-00	28	120.1
			KPB	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00	180	6020M
			F-	<0.10	ppm	BD	11-FEB-00	28	340.2
			FE	0.26	ppm	MDK	25-FEB-00	180	6010
			HCO3	<1.0	ppm	DC	15-FEB-00	14	310.1
			K	<5.0	ppm	MDK	25-FEB-00	180	6010
			MG	<1.0	ppm	MDK	25-FEB-00	180	6010
			NA	<5.0	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	0.082	ppm	JN	29-FEB-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	YIELD	METHOD			
L000176-002	01-FEB-00	EPRI-0002-234	PH	5.0	pH	DC	15-FEB-00	150.1				
			SE	<0.005	ppm	KPB	23-FEB-00	180	6020M			
			SO4=	1.3	ppm	JN	10-FEB-00	28	9036			
			TDS	<10.	ppm	AKH	10-FEB-00	7	150.1			
			TSS	<1.	ppm	AKH	09-FEB-00		160.2			
			ZN	<0.020	ppm	KPB	23-FEB-00	180	6020M			
			AS	0.27	ppm	KPB	23-FEB-00	180	6020M			
			CA	77.	ppm	MDK	25-FEB-00	180	6010			
			CD	0.090	ppm	KPB	23-FEB-00	180	6020M			
			CL-	177.	ppm	JN	23-FEB-00	28	325.2			
L000176-003	07-FEB-00	EPRI-0002-203	CO3	<1	ppm	CaCO3	DC	15-FEB-00	310.1			
			COND.	1420.	umhos/cm2	BD	14-FEB-00	28	120.1			
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M			
			CU	0.33	ppm	KPB	23-FEB-00		6020M			
			F-	1.4	ppm	BD	11-FEB-00	28	340.2			
			FE	0.64	ppm	MDK	25-FEB-00	180	6010			
			HCO3	79.	ppm	CaCO3	DC	15-FEB-00	14	310.1		
			K	8.5	ppm	MDK	25-FEB-00	180	6010			
			MG	13.	ppm	MDK	25-FEB-00	180	6010			
			NA	205.	ppm	MDK	25-FEB-00	180	6010			
			NO2/NO3	0.54	ppm	JN	29-FEB-00	28	353.2			
			PB	0.11	ppm	KPB	23-FEB-00	180	6020M			
			PH	7.7	pH	DC	15-FEB-00		150.1			
			SE	0.014	ppm	KPB	23-FEB-00	180	6020M			
			SO4=	226.	ppm	JN	09-FEB-00	28	9036			
			TDS	909.	ppm	AKH	10-FEB-00	7	160.1			
			TSS	15.	ppm	AKH	09-FEB-00		160.2			
			ZN	0.41	ppm	KPB	23-FEB-00	180	6020M			
			L000176-004	07-FEB-00	EPRI-0002-123	AS	54.	ppm	MDK	25-FEB-00	180	6010
						CA	494.	ppm	MDK	25-FEB-00	180	6010
CD	0.16	ppm				KPB	23-FEB-00	180	6020M			
CL-	780.	ppm				JN	23-FEB-00	28	325.2			
CO3	<1	ppm				CaCO3	DC	15-FEB-00	310.1			
COND.	10000.	umhos/cm2				BD	14-FEB-00	28	120.1			
CR	<0.010	ppm				KPB	23-FEB-00	180	6020M			
CU	0.031	ppm				KPB	23-FEB-00		6020M			
F-	15.	ppm				BD	11-FEB-00	28	340.2			

## ASARCO TECHNICAL SERVICES CENTER.

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000176-004	07-FEB-00	EPRI-0002-123	PE	46.	ppm	MDK	25-FEB-00	180	6010
			HCO3	560.	ppm	DC	15-FEB-00	14	310.1
			K	117.	ppm	MDK	25-FEB-00	180	6010
			MG	306.	ppm	MDK	25-FEB-00	180	6010
			NA	1342.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	1.3	ppm	JN	01-MAR-00	28	353.2
			PB	0.031	ppm	KPB	23-FEB-00	180	6020M
			PH	6.9	pH	DC	15-FEB-00		150.1
			SE	0.15	ppm	KPB	23-FEB-00	180	6020M
			SO4=	4791.	ppm	JN	09-FEB-00	28	9036
			TDS	8335.	ppm	AKH	10-FEB-00	7	160.1
			TSS	234.	ppm	AKH	09-FEB-00		160.2
			ZN	29.	ppm	MDK	25-FEB-00	180	6010
			AS	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CA	<1.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	<1.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm	DC	15-FEB-00		310.1
			COND.	<10.	umhos/cm2	BD	14-FEB-00	28	120.1
L000176-005	07-FEB-00	EPRI-0002-235	CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	<0.10	ppm	BD	11-FEB-00	28	340.2
			FE	<0.10	ppm	MDK	25-FEB-00	180	6010
			HCO3	<1.	ppm	DC	15-FEB-00	14	310.1
			K	<5.0	ppm	MDK	25-FEB-00	180	6010
			MG	<1.0	ppm	MDK	25-FEB-00	180	6010
			NA	<5.0	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	0.53	ppm	JN	29-FEB-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	5.8	pH	DC	15-FEB-00		150.1
			SE	<0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	<1.0	ppm	JN	10-FEB-00	28	9036
			TDS	<10.	ppm	AKH	10-FEB-00	7	160.1
			TSS	<1.	ppm	AKH	09-FEB-00		160.2
			ZN	<0.020	ppm	KPB	23-FEB-00	180	6020M
			AS	0.43	ppm	KPB	23-FEB-00	180	6020M
			CA	84.	ppm	MDK	25-FEB-00	180	6010
L000176-006	07-FEB-00	EPRI-0002-125	AS	0.43	ppm	KPB	23-FEB-00	180	6020M
			CA	84.	ppm	MDK	25-FEB-00	180	6010

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L000176-006	07-FEB-00	EPRI-0002-125	CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	219.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm CaCO3	DC	15-FEB-00	310.1	120.1
			COND.	3080.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00	6020M	
			F-	0.89	ppm	BD	11-FEB-00	28	340.2
			FE	0.79	ppm	MDK	25-FEB-00	180	6010
			HCO3	1204.	ppm CaCO3	DC	15-FEB-00	14	310.1
			K	19.	ppm	MDK	25-FEB-00	180	6010
			MG	100.	ppm	MDK	25-FEB-00	180	6010
			NA	385.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	1.2	ppm	JN	01-MAR-00	28	353.2
			PB	0.004	ppm	KPB	23-FEB-00	180	6020M
			PH	7.7	PH	DC	15-FEB-00	150.1	150.1
			SE	0.015	ppm	KPB	23-FEB-00	180	6020M
			SO4=	254.	ppm	JN	10-FEB-00	28	9036
			TDS	2074.	ppm	AKH	10-FEB-00	7	160.1
			TSS	233.	ppm	AKH	09-FEB-00	160.2	160.2
			ZN	<0.020	ppm	KPB	23-FEB-00	180	6020M
L000176-007	07-FEB-00	EPRI-0002-126	AS	3.4	ppm	KPB	23-FEB-00	180	6020M
			CA	502.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	894.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm CaCO3	DC	15-FEB-00	310.1	120.1
			COND.	11700.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00	6020M	
			F-	5.3	ppm	BD	11-FEB-00	28	340.2
			FE	7.6	ppm	MDK	25-FEB-00	180	6010
			HCO3	1076.	ppm CaCO3	DC	15-FEB-00	14	310.1
			K	196.	ppm	MDK	25-FEB-00	180	6010
			MG	228.	ppm	MDK	25-FEB-00	180	6010
			NA	1801.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	1.3	ppm	JN	01-MAR-00	28	353.2
			PB	0.016	ppm	KPB	23-FEB-00	180	6020M
			PH	7.2	PH	DC	15-FEB-00	150.1	150.1
			SE	0.16	ppm	KPB	23-FEB-00	180	6020M

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	METHOD
L000176-007	07-FEB-00	EPRI-0002-126	SO4=	5590.	ppm	JN	09-FEB-00	28	9036
			TDS	9358.	ppm	AKH	10-FEB-00	7	160.1
			TSS	424.	ppm	AKH	09-FEB-00		160.2
			ZN	0.031	ppm	KPB	23-FEB-00	180	6020M
			AS	0.026	ppm	KPB	23-FEB-00	180	6020M
			CA	375.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	623.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm CaCO3	DC	15-FEB-00		310.1
			COND.	8360.	umhos/cm2	BD	14-FEB-00	28	120.1
L000176-008	07-FEB-00	EPRI-0002-129	CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	1.7	ppm	BD	11-FEB-00	28	340.2
			FE	0.29	ppm	MDK	25-FEB-00	180	6010
			HCO3	350.	ppm CaCO3	DC	15-FEB-00	14	310.1
			K	16.	ppm	MDK	25-FEB-00	180	6010
			MG	168.	ppm	MDK	25-FEB-00	180	6010
			NA	1423.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	93.	ppm	JN	29-FEB-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
L000176-009	07-FEB-00	EPRI-0002-133	PH	7.7	pH	DC	15-FEB-00		150.1
			SE	0.34	ppm	KPB	23-FEB-00	180	6020M
			SO4=	3860.	ppm	JN	09-FEB-00	28	9036
			TDS	6950.	ppm	AKH	10-FEB-00	7	160.1
			TSS	14.	ppm	AKH	09-FEB-00		160.2
			ZN	<0.020	ppm	KPB	23-FEB-00	180	6020M
			AS	0.020	ppm	KPB	23-FEB-00	180	6020M
			CA	284.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	541.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm CaCO3	DC	15-FEB-00		310.1
			COND.	6520.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	1.9	ppm	BD	11-FEB-00	28	340.2
			FE	0.17	ppm	MDK	25-FEB-00	180	6010
			HCO3	576.	ppm CaCO3	DC	15-FEB-00	14	310.1

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD
L000176-009	07-FEB-00	EPRI-0002-133	K	17.	ppm	MDK	25-FEB-00	180
			MG	126.	ppm	MDK	25-FEB-00	180
			NA	1135.	ppm	MDK	25-FEB-00	180
			NO2/NO3	22.	ppm	JN	29-FEB-00	28
			PB	<0.003	ppm	KPB	23-FEB-00	180
			PH	7.6	pH	DC	15-FEB-00	150.1
			SE	0.20	ppm	KPB	23-FEB-00	180
			SO4=	2395.	ppm	JN	09-FEB-00	28
			TDS	5148.	ppm	AKH	10-FEB-00	7
			TSS	16.	ppm	AKH	09-FEB-00	160.2
			ZN	<0.020	ppm	KPB	23-FEB-00	180
			AS	0.018	ppm	KPB	23-FEB-00	180
			CA	283.	ppm	MDK	25-FEB-00	180
			CD	<0.005	ppm	KPB	23-FEB-00	180
			CL-	491.	ppm	JN	23-FEB-00	28
			CO3	<1	ppm	DC	15-FEB-00	310.1
			COND.	6500.	unhos/cm2	BD	14-FEB-00	28
			CR	<0.010	ppm	KPB	23-FEB-00	180
			CU	<0.025	ppm	KPB	23-FEB-00	180
			F-	1.9	ppm	BD	11-FEB-00	28
L000176-010	07-FEB-00	EPRI-0002-236	FE	0.23	ppm	MDK	25-FEB-00	180
			HCO3	592.	ppm	DC	15-FEB-00	14
			K	17.	ppm	MDK	25-FEB-00	180
			MG	128.	ppm	MDK	25-FEB-00	180
			NA	1155.	ppm	MDK	25-FEB-00	180
			NO2/NO3	20.	ppm	JN	01-MAR-00	28
			PB	<0.003	ppm	KPB	23-FEB-00	180
			PH	7.7	pH	DC	15-FEB-00	150.1
			SE	0.20	ppm	KPB	23-FEB-00	180
			SO4=	2338.	ppm	JN	09-FEB-00	28
			TDS	5129.	ppm	AKH	10-FEB-00	7
			TSS	16.	ppm	AKH	09-FEB-00	160.2
			ZN	<0.020	ppm	KPB	23-FEB-00	180
			AS	2.3	ppm	KPB	23-FEB-00	180
			CA	221.	ppm	MDK	25-FEB-00	180
			CD	<0.005	ppm	KPB	23-FEB-00	180
			CL-	439.	ppm	JN	23-FEB-00	28
L000176-011	08-FEB-00	EPRI-0002-104						

## ASARCO TECHNICAL SERVICES CENTER.

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	METHOD
L000176-011	08-FEB-00	EPRI-0002-104	CO3	<1	ppm CaCO3	DC	15-FEB-00		310.1
			COND.	5520.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.90	ppm	BD	11-FEB-00	28	340.2
			FE	1.6	ppm	MDK	25-FEB-00	180	6010
			HCO3	995.	ppm CaCO3	DC	15-FEB-00	14	310.1
			K	11.	ppm	MDK	25-FEB-00	180	6010
			MG	94.	ppm	MDK	25-FEB-00	180	6010
			NA	924.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	3.2	ppm	MDK	25-FEB-00	180	6010
			PB	0.009	ppm	JN	01-MAR-00	28	353.2
			PH	7.5	ppm	KPB	23-FEB-00	180	6020M
			SE	0.26	ppm	DC	15-FEB-00		150.1
			SO4=	1433.	ppm	KPB	23-FEB-00	180	6020M
			TDS	3880.	ppm	JN	10-FEB-00	28	9036
			TSS	46.	ppm	AKH	10-FEB-00	7	160.1
			ZN	<0.020	ppm	AKH	09-FEB-00		160.2
					ppm	KPB	23-FEB-00	180	6020M
L000176-012	08-FEB-00	EPRI-0002-237	AS	2.6	ppm	KPB	23-FEB-00	180	6020M
			CA	191.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	417.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm CaCO3	DC	15-FEB-00		310.1
			COND.	5420.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	0.011	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	0.87	ppm	BD	11-FEB-00	28	340.2
			FE	1.5	ppm	MDK	25-FEB-00	180	6010
			HCO3	1035.	ppm CaCO3	DC	15-FEB-00	14	310.1
			K	9.8	ppm	MDK	25-FEB-00	180	6010
			MG	86.	ppm	MDK	25-FEB-00	180	6010
			NA	898.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	2.1	ppm	JN	01-MAR-00	28	353.2
			PB	0.011	ppm	KPB	23-FEB-00	180	6020M
			PH	7.6	ppm	DC	15-FEB-00		150.1
			SE	0.28	ppm	KPB	23-FEB-00	180	6020M
			SO4=	1350.	ppm	JN	10-FEB-00	28	9036
			TDS	3928.	ppm	AKH	10-FEB-00	7	160.1



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L000176-012	08-FEB-00	EPRI-0002-237	TSS	68.	ppm	AKH	09-FEB-00	180.2	
			ZN	0.021	ppm	KPB	23-FEB-00	180	6020M
			AS	1.3	ppm	KPB	23-FEB-00	180	6020M
			CA	144.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	478.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm	CaCO3	15-FEB-00	310.1	
			COND.	3900.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	0.054	ppm	KPB	23-FEB-00	180	6020M
			CU	0.035	ppm	KPB	23-FEB-00	6020M	
			F-	2.5	ppm	BD	11-FEB-00	28	340.2
			FE	2.4	ppm	MDK	25-FEB-00	180	6010
			HCO3	864.	ppm	CaCO3	15-FEB-00	14	310.1
			K	33.	ppm	MDK	25-FEB-00	180	6010
			MG	46.	ppm	MDK	25-FEB-00	180	6010
			NA	742.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	0.61	ppm	JN	01-MAR-00	28	353.2
			Pb	0.023	ppm	KPB	23-FEB-00	180	6020M
			PH	7.3	pH	DC	15-FEB-00	150.1	
			SE	0.12	ppm	KPB	23-FEB-00	180	6020M
L000176-013	08-FEB-00	EPRI-0002-117	SO4=	449.	ppm	JN	10-FEB-00	28	9036
			TDS	2540.	ppm	AKH	10-FEB-00	7	160.1
			TSS	230.	ppm	AKH	09-FEB-00	160.2	
			ZN	0.028	ppm	KPB	23-FEB-00	180	6020M
			AS	4.0	ppm	MDK	25-FEB-00	180	6010
			CA	103.	ppm	MDK	25-FEB-00	180	6010
			CD	0.006	ppm	KPB	23-FEB-00	180	6020M
			CL-	775.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm	CaCO3	15-FEB-00	310.1	
			COND.	5200.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	0.14	ppm	KPB	23-FEB-00	6020M	
			F-	2.2	ppm	BD	11-FEB-00	28	340.2
			FE	7.5	ppm	MDK	25-FEB-00	180	6010
			HCO3	1300.	ppm	CaCO3	15-FEB-00	14	310.1
			K	214.	ppm	MDK	25-FEB-00	180	6010
			MG	20.	ppm	MDK	25-FEB-00	180	6010
L000176-014	08-FEB-00	EPRI-0002-113	AS	4.0	ppm	MDK	25-FEB-00	180	6010
			CA	103.	ppm	MDK	25-FEB-00	180	6010
			CD	0.006	ppm	KPB	23-FEB-00	180	6020M
			CL-	775.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1	ppm	CaCO3	15-FEB-00	310.1	
			COND.	5200.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	0.14	ppm	KPB	23-FEB-00	6020M	
			F-	2.2	ppm	BD	11-FEB-00	28	340.2
			FE	7.5	ppm	MDK	25-FEB-00	180	6010
			HCO3	1300.	ppm	CaCO3	15-FEB-00	14	310.1
			K	214.	ppm	MDK	25-FEB-00	180	6010
			MG	20.	ppm	MDK	25-FEB-00	180	6010

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000176-014	08-FEB-00	EPRI-0002-113	NA	862.	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	0.36	ppm	JN	01-MAR-00	28	353.2
			PB	0.12	ppm	KPB	23-FEB-00	180	6020M
			PH	7.6	pH	DC	15-FEB-00		150.1
			SE	0.22	ppm	KPB	23-FEB-00	180	6020M
			SO4=	198.	ppm	JN	10-FEB-00	28	9036
			TDS	3118.	ppm	AKH	10-FEB-00	7	160.1
			TSS	460.	ppm	AKH	09-FEB-00		160.2
			ZN	0.10	ppm	KPB	23-FEB-00	180	6020M
			AS	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CA	<1.	ppm	MDK	25-FEB-00	180	6010
			CD	<0.005	ppm	KPB	23-FEB-00	180	6020M
			CL-	<1.	ppm	JN	23-FEB-00	28	325.2
			CO3	<1.	ppm CaCO3	DC	15-FEB-00		310.1
L000176-015	08-FEB-00	EPRI-0002-238	COND.	<10.	umhos/cm2	BD	14-FEB-00	28	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	180	6020M
			CU	<0.025	ppm	KPB	23-FEB-00		6020M
			F-	<0.10	ppm	BD	11-FEB-00	28	340.2
			FE	<0.10	ppm	MDK	25-FEB-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	15-FEB-00	14	310.1
			K	<5.0	ppm	MDK	25-FEB-00	180	6010
			MG	<1.0	ppm	MDK	25-FEB-00	180	6010
			NA	<5.0	ppm	MDK	25-FEB-00	180	6010
			NO2/NO3	0.41	ppm	JN	29-FEB-00	28	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	180	6020M
			PH	5.9	pH	DC	15-FEB-00		150.1
			SE	<0.005	ppm	KPB	23-FEB-00	180	6020M
			SO4=	<1.0	ppm	JN	10-FEB-00	28	9036
			TDS	<10.	ppm	AKH	10-FEB-00	7	160.1
			TSS	<1.	ppm	AKH	09-FEB-00		160.2
			ZN	<0.020	ppm	KPB	23-FEB-00	180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


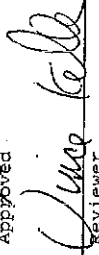
El Paso

Water and Solid Waste (Project 3220)

Batch No: L000176

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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Holding times for TDS and TSS on some samples had expired by the time samples were received. pH is a field parameter. pH readings are reported as requested. Methods of digestion were 3010 for ICP analysis and 6020M for ICP-MS analysis.

  
 Approved  
  
 Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000097

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
WG000097-1		Matrix Spike	AS	94	%Recovery	KPB	23-FEB-00	6020M
			CD	98	%Recovery	KPB	23-FEB-00	6020M
			CL-	94	%Recovery	JN	23-FEB-00	325.2
			CR	100	%Recovery	KPB	23-FEB-00	6020M
			CU	93	%Recovery	KPB	23-FEB-00	6020M
			F-	94	%Recovery	BD	11-FEB-00	340.2
			FE	111	%Recovery	MDK	25-FEB-00	6010
			NO2/NO3	83	%Recovery	JN	29-FEB-00	353.2
			PB	96	%Recovery	KPB	23-FEB-00	6020M
			SE	55	%Recovery	KPB	23-FEB-00	6020M
			SO4=	94	%Recovery	JN	09-FEB-00	9036
			ZN	100	%Recovery	KPB	23-FEB-00	6020M
			AS	<0.005	ppm	KPB	23-FEB-00	6020M
			CA	<1.	ppm	MDK	25-FEB-00	6010
			CD	<0.005	ppm	KPB	23-FEB-00	6020M
			CL-	<1.	ppm	JN	23-FEB-00	325.2
			CO3	<1.	ppm CaCO3	DC	15-FEB-00	310.1
WG000097-2		Prep Blank	COND.	<10.	umhos/cm2	BD	14-FEB-00	120.1
			CR	<0.010	ppm	KPB	23-FEB-00	6020M
			CU	<0.025	ppm	KPB	23-FEB-00	6020M
			F-	<0.1	ppm	BD	11-FEB-00	340.2
			FE	<0.10	ppm	MDK	18-FEB-00	6010
			HCO3	<1.0	ppm CaCO3	DC	15-FEB-00	310.1
			K	<5.0	ppm	MDK	18-FEB-00	6010
			MG	<1.0	ppm	MDK	25-FEB-00	6010
			NA	<5.0	ppm	MDK	25-FEB-00	6010
			NO2/NO3	<0.05	ppm	JN	29-FEB-00	353.2
			PB	<0.003	ppm	KPB	23-FEB-00	6020M
			PH	5.0	pH	DC	15-FEB-00	150.1
			SE	<0.005	ppm	KPB	23-FEB-00	6020M
			SO4=	<1.0	ppm	JN	09-FEB-00	9036
			TDS	<10.	ppm	AKH	10-FEB-00	160.1
			TSS	<1.	ppm	AKH	09-FEB-00	160.2
			ZN	<0.020	ppm	KPB	23-FEB-00	6020M
WG000097-3		Lab Control Sample	AS	98	%Recovery	KPB	23-FEB-00	6020M
			CA	116	%Recovery	MDK	18-FEB-00	6010
			CD	98	%Recovery	KPB	23-FEB-00	6020M

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000097

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOID DAYS	METHOD
WG000097-3		Lab Control Sample	CL-	106	% Recovery	JN	23-FEB-00	325.2	
			COND.	100	% Recovery	BD	14-FEB-00	120.1	
			CR	103	% Recovery	KPB	23-FEB-00	6020M	
			CU	103	% Recovery	KPB	23-FEB-00	6020M	
			F-	94	% Recovery	BD	11-FEB-00	340.2	
			FE	106	% Recovery	MDK	18-FEB-00	6010	
			HCO3	89	% Recovery	DC	15-FEB-00	310.1	
			K	100	% Recovery	MDK	25-FEB-00	6010	
			MG	110	% Recovery	MDK	18-FEB-00	6010	
			NA	102	% Recovery	MDK	25-FEB-00	6010	
			NO2/NO3	95	% Recovery	JN	29-FEB-00	353.2	
			PB	100	% Recovery	KPB	23-FEB-00	6020M	
			PH	100	% Recovery	DC	15-FEB-00	150.1	
			SE	92	% Recovery	KPB	23-FEB-00	6020M	
			SO4=	97	% Recovery	JN	09-FEB-00	9036	
			TDS	100	% Recovery	AKH	10-FEB-00	160.1	
			TSS	99	% Recovery	AKH	09-FEB-00	160.2	
			ZN	96	% Recovery	KPB	23-FEB-00	6020M	
WG000097-4		Duplicate	AS	<1	% RPD	KPB	23-FEB-00	6020M	
			CA	<1	% RPD	MDK	25-FEB-00	6010	
			CD	<1	% RPD	KPB	23-FEB-00	6020M	
			CL-	<1	% RPD	JN	23-FEB-00	325.2	
			CO3	<1	% RPD	DC	15-FEB-00	310.1	
			COND.	<1	% RPD	BD	14-FEB-00	120.1	
			CR	<1	% RPD	KPB	23-FEB-00	6020M	
			CU	3.0	% RPD	KPB	23-FEB-00	6020M	
			F-	<1	% RPD	BD	11-FEB-00	340.2	
			FE	+/- PRDL	% RPD	MDK	25-FEB-00	6010	
			HCO3	<1	% RPD	DC	15-FEB-00	310.1	
			K	1.2	% RPD	MDK	25-FEB-00	6010	
			MG	<1	% RPD	MDK	25-FEB-00	6010	
			NA	3.8	% RPD	MDK	25-FEB-00	6010	
			NO2/NO3	<1	% RPD	JN	29-FEB-00	353.2	
			PB	<1	% RPD	KPB	23-FEB-00	6020M	
			PH	<1	% RPD	DC	15-FEB-00	150.1	
			SE	<1	% RPD	KPB	23-FEB-00	6020M	
			SO4=	3.8	% RPD	JN	09-FEB-00	9036	
			TDS	<1	% RPD	AKH	10-FEB-00	160.1	

## ASARCO TECHNICAL SERVICES CENTER.

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000097

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD DATE	METHOD
WG000097-4		Duplicate	TSS	<1		AKH	09-FEB-00	160.2	
			ZN	2.4		KPB	23-FEB-00	6020M	
WG000097-5		Practical Quantitation Limit	AS	0.005				6020M	
			CA	1.0				6010	
			CD	0.005				6020M	
			CL-	1.0				325.2	
			CO3	1.0				310.1	
			COND.	10.				120.1	
			CR	0.010				6020M	
			CU	0.025				6020M	
			F-	0.10				340.2	
			FE	0.10				6010	
			HCO3	1.0				310.1	
			K	5.0				6010	
			MG	1.0				6010	
			NA	5.0				6010	
			NO2/NO3	0.050				353.2	
			PB	0.003				6020M	
			SE	0.005				6020M	
			SO4=	1.0				9036	
			TDS	10.				160.1	
			TSS	1.0				160.2	
			ZN	0.020				6020M	
WG000097-6		Matrix Spike	AS	103		MDK	25-FEB-00	6010	
			SE	88		KPB	25-FEB-00	6010	
			ZN	100		MDK	25-FEB-00	6010	
WG000097-7		Prep Blank	AS	<0.1		MDK	25-FEB-00	6010	
			SE	<0.10		KPB	25-FEB-00	6010	
			ZN	<0.020		MDK	25-FEB-00	6010	
WG000097-8		Lab Control Sample	AS	104		MDK	25-FEB-00	6010	
			SE	98		KPB	25-FEB-00	6010	
			ZN	94		MDK	25-FEB-00	6010	
WG000097-9		Duplicate	AS	<1		MDK	25-FEB-00	6010	
			SE	<1		KPB	25-FEB-00	6010	

ASARCO TECHNICAL SERVICES CENTER



ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000097

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000097-9		Duplicate	ZN	1.9	% RPD	MDK	25-FEB-00	6010	
WG000097-10		Practical Quantitation Limit	AS	0.005	ppm			6010	
			SE	0.10	ppm			6010	
			ZN	0.020	ppm			6010	

  
 Approved  
  
 Reviewer

# ENVIRONMENTAL

## 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 <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>		BTEX
2-10-00	1300				EPR1-0002-109	X	X		X				
↓	1400				EPR1-0002-234	X	X		X				
2-10-00	930				EPR1-0002-203	X	X		X				
↓	1000				EPR1-0002-123	X	X		X				
↓	1100				EPR1-0002-235	X	X		X				
↓	1300				EPR1-0002-125	X	X		X				
↓	1400				EPR1-0002-126	X	X		X				
↓	1430				EPR1-0002-129	X	X		X				
↓	1500				EPR1-0002-133	X	X		X				
↓	1505				EPR1-0002-236	X	X		X				
2-8-00	1320				EPR1-0002-104	X	X		X				
↓	1325				EPR1-0002-237	X	X		X				
↓	1415				EPR1-0002-117	X	X		X				
↓	1530				EPR1-0002-113	X	X		X				
↓	1600				EPR1-0002-238	X	X		X				
Relinquished (Signature)		Received by: (Signature)		Lab TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS					
2/8/00		2/8/00		16:00		325, UT		Other		Air Bill #			
Relinquished (Signature)		Received by: (Signature)		Remarks									
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits							
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter					
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		2.9.00		12:00					
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		2.9.00		12:00					



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOB	METHOD
L000152-001	31-JAN-00	EPRI-0002-178	AS	214.	ppm	MK	02-MAR-00	180	6010
			CA	960.	ppm	MK	17-FEB-00	180	6010
			CD	2.7	ppm	KB	01-MAR-00	180	6020
			CL-	930.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1	310.1
			COND.	8480.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	0.16	ppm	MK	17-FEB-00	180	6010
			CU	11.	ppm	MK	17-FEB-00	6010	6010
			F-	12.	ppm	BD	10-FEB-00	28	340.2
			FE	361.	ppm	MK	02-MAR-00	180	6010
			HCO3	1400.	ppm CaCO3	DC	07-FEB-00	14	310.1
			K	269.	ppm	MK	17-FEB-00	180	6010
			MG	355.	ppm	MK	17-FEB-00	180	6010
			NA	1244.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	18.	ppm	JN	28-FEB-00	28	353.2
			PB	6.6	ppm	MK	17-FEB-00	180	6010
			PH	6.6	pH	DC	07-FEB-00	150.1	150.1
			SE	0.12	ppm	MK	17-FEB-00	180	6010
			SO4=	3440.	ppm	JN	09-FEB-00	28	9036
			TDS	7317.	ppm	DC	04-FEB-00	7	160.1
			TSS	8392.	ppm	DC	04-FEB-00	160.2	160.2
			ZN	75.	ppm	KB	01-MAR-00	180	6020
L000152-002	31-JAN-00	EPRI-0002-179	AS	0.26	ppm	KB	01-MAR-00	180	6020
			CA	560.	ppm	MK	17-FEB-00	180	6010
			CD	0.19	ppm	KB	01-MAR-00	180	6020
			CL-	1502.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1	310.1
			COND.	11440.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	0.14	ppm	KB	01-MAR-00	6020	6020
			F-	3.3	ppm	BD	10-FEB-00	28	340.2
			FE	0.87	ppm	MK	17-FEB-00	180	6010
			HCO3	625.	ppm CaCO3	DC	07-FEB-00	14	310.1
			K	102.	ppm	MK	17-FEB-00	180	6010
			MG	276.	ppm	MK	17-FEB-00	180	6010
			NA	1824.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	35.	ppm	JN	28-FEB-00	28	353.2
			PB	0.020	ppm	KB	01-MAR-00	180	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000152-002	31-JAN-00	EFRI-0002-179	PH	7.7	pH	DC	07-FEB-00	180	150.1
			SE	0.42	ppm	MK	17-FEB-00	180	6010
			SO4=	4112.	ppm	JN	10-FEB-00	28	9036
			IDS	9032.	ppm	DC	04-FEB-00	7	160.1
			TSS	100.	ppm	DC	04-FEB-00		160.2
			ZN	0.34	ppm	KB	01-MAR-00	180	6020
			AS	4.9	ppm	MK	17-FEB-00	180	6010
			CA	531.	ppm	MK	17-FEB-00	180	6010
			CD	1.5	ppm	KB	01-MAR-00	180	6020
			CL-	489.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00		310.1
			COND.	6480.	umhos/cm2	BD	04-FEB-00	28	120.1
L000152-003	31-JAN-00	EFRI-0002-180	CR	0.044	ppm	KB	01-MAR-00	180	6020
			CU	6.9	ppm	MK	17-FEB-00		6010
			F-	5.6	ppm	BD	10-FEB-00	28	340.2
			FE	90.	ppm	MK	02-MAR-00	180	6010
			HCO3	820.	ppm CaCO3	DC	07-FEB-00	14	310.1
			K	80.	ppm	MK	17-FEB-00	180	6010
			MG	118.	ppm	MK	17-FEB-00	180	6010
			NA	1052.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	8.9	ppm	JN	28-FEB-00	28	353.2
			PB	4.1	ppm	MK	17-FEB-00	180	6010
			PH	7.6	pH	DC	07-FEB-00		150.1
			SE	0.42	ppm	MK	17-FEB-00	180	6010
			SO4=	2202.	ppm	JN	09-FEB-00	28	9036
			TDS	4700.	ppm	DC	04-FEB-00	7	160.1
			TSS	1993.	ppm	DC	04-FEB-00		160.2
			ZN	4.4	ppm	KB	01-MAR-00	180	6020
			AS	11.	ppm	MK	17-FEB-00	180	6010
			CA	780.	ppm	MK	17-FEB-00	180	6010
			CD	2.7	ppm	KB	01-MAR-00	180	6020
			CL-	245.	ppm	JN	23-FEB-00	28	325.2
L000152-004	31-JAN-00	EFRI-0002-181	CO3	<1.0	ppm CaCO3	DC	07-FEB-00		310.1
			COND.	2640.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	0.16	ppm	MK	17-FEB-00	180	6010
			CU	2.1	ppm	MK	17-FEB-00		6010
			F-	6.0	ppm	BD	10-FEB-00	28	340.2

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L000152 004	31-JAN-00	EPRI-0002-181	FE	228.	ppm	MK	02-MAR-00	180
			HCO3	1560.	ppm	DC	07-FEB-00	14
			K	120.	ppm	CaCO3	17-FEB-00	180
			MG	122.	ppm	MK	17-FEB-00	180
			NA	371.	ppm	MK	02-MAR-00	180
			NO2/NO3	6.0	ppm	JN	28-FEB-00	28
			PB	10.	ppm	MK	17-FEB-00	180
			PH	7.5	pH	DC	07-FEB-00	150.1
			SE	1.1	ppm	MK	17-FEB-00	180
			SO4=	843.	ppm	JN	09-FEB-00	28
			TDS	1914.	ppm	DC	04-FEB-00	7
			TSS	11156.	ppm	DC	04-FEB-00	160.1
			ZN	3.4	ppm	KB	01-MAR-00	180
							01-MAR-00	6020
			AS	2.1	ppm	KB	01-MAR-00	180
			CA	77.	ppm	MK	17-FEB-00	180
			CD	0.29	ppm	KB	01-MAR-00	180
			CL-	236.	ppm	JN	23-FEB-00	28
			CO3	<1.0	ppm	DC	07-FEB-00	310.1
			COND.	2260.	umhos/cm2	BD	04-FEB-00	28
L000152 005	31-JAN-00	EPRI-0002-200	CR	0.043	ppm	KB	01-MAR-00	180
			CU	1.3	ppm	MK	17-FEB-00	6010
			F-	5.2	ppm	BD	10-FEB-00	28
			FE	4.0	ppm	MK	17-FEB-00	180
			HCO3	215.	ppm	DC	07-FEB-00	14
			K	18.	ppm	MK	17-FEB-00	180
			MG	14.	ppm	MK	17-FEB-00	180
			NA	364.	ppm	MK	02-MAR-00	180
			NO2/NO3	0.37	ppm	JN	28-FEB-00	28
			PB	2.0	ppm	MK	17-FEB-00	180
			PH	7.8	pH	DC	07-FEB-00	150.1
			SE	0.071	ppm	KB	01-MAR-00	180
			SO4=	474.	ppm	JN	09-FEB-00	28
			TDS	1440.	ppm	DC	04-FEB-00	7
			TSS	506.	ppm	DC	04-FEB-00	160.1
			ZN	1.0	ppm	KB	01-MAR-00	180
							01-MAR-00	6020
			AS	<0.005	ppm	KB	01-MAR-00	180
			CA	223.	ppm	MK	17-FEB-00	180
L000152-006	31-JAN-00	EPRI-0002-195						

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	
							ANALYZED	HOLD DAYS
L000152-006	31-JAN-00	EPRI-0002-195	CD	<0.005	ppm	KB	01-MAR-00	180
			CL-	762.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	325.2
			COND.	5580.	umhos/cm2	DC	04-FEB-00	310.1
			CR	<0.010	ppm	KB	01-MAR-00	120.1
			CU	<0.025	ppm	KB	01-MAR-00	6020
			F-	0.77	ppm	KB	01-MAR-00	6020
			FE	0.84	ppm	BD	10-FEB-00	340.2
			HCO3	180.	ppm	MK	17-FEB-00	180
			K	29.	ppm CaCO3	DC	07-FEB-00	6010
			MG	126.	ppm	MK	17-FEB-00	14
			NA	946.	ppm	MK	17-FEB-00	180
			NO2/NO3	0.37	ppm	MK	17-FEB-00	6010
			PB	0.003	ppm	MK	02-MAR-00	180
			PH	7.8	ppm	JN	29-FEB-00	6010
			SE	0.007	ppm	DC	29-FEB-00	28
			SO4=	1846.	pH	KB	01-MAR-00	353.2
			TDS	4038.	ppm	KB	01-MAR-00	6020
			TSS	14.	ppm	DC	07-FEB-00	150.1
			ZN	<0.020	ppm	KB	01-MAR-00	6020
L000152-007	31-JAN-00	EPRI-0002-231	AS	<0.005	ppm	KB	01-MAR-00	180
			CA	<1.0	ppm	KB	01-MAR-00	6020
			CD	<0.005	ppm	MK	17-FEB-00	180
			CL-	<1.0	ppm	KB	01-MAR-00	180
			CO3	<1.0	ppm	JN	22-FEB-00	6020
			COND.	<5.0	ppm CaCO3	DC	07-FEB-00	325.2
			CR	<0.010	umhos/cm2	DC	04-FEB-00	310.1
			CU	<0.025	ppm	BD	04-FEB-00	120.1
			F-	<0.050	ppm	KB	01-MAR-00	6020
			FE	<0.10	ppm	KB	01-MAR-00	6020
			HCO3	<1.0	ppm	BD	10-FEB-00	340.2
			K	<5.0	ppm	MK	17-FEB-00	180
			MG	<1.0	ppm CaCO3	DC	07-FEB-00	6010
			NA	<5.0	ppm	MK	17-FEB-00	14
			NO2/NO3	0.19	ppm	MK	17-FEB-00	180
			PB	<0.003	ppm	MK	17-FEB-00	6010
			PH	5.3	ppm	MK	02-MAR-00	180
			SE	<0.005	ppm	JN	28-FEB-00	353.2
					ppm	KB	01-MAR-00	6020
					pH	DC	07-FEB-00	150.1
					ppm	KB	01-MAR-00	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000152-007	31-JAN-00	EPRI-0002-231	SO4=	<2.0	ppm	JN	09-FEB-00	28	9036
			TDS	<10.	ppm	DC	04-FEB-00	7	160.1
			TSS	<1.0	ppm	DC	04-FEB-00		160.2
			ZN	<0.020	ppm	KB	01-MAR-00	180	6020
			AS	0.43	ppm	KB	01-MAR-00	180	6020
			CA	556.	ppm	MK	17-FEB-00	180	6010
			CD	0.071	ppm	KB	01-MAR-00	180	6020
			CL-	376.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00		310.1
			COND.	3080.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	0.27	ppm	MK	17-FEB-00	180	6010
			CU	1.2	ppm	KB	01-MAR-00		6020
			F-	1.9	ppm	BD	10-FEB-00	28	340.2
L000152-008	31-JAN-00	EPRI-0002-182	FE	868.	ppm	MK	02-MAR-00	180	6010
			HCO3	1060.	ppm CaCO3	DC	07-FEB-00	14	310.1
			K	122.	ppm	MK	17-FEB-00	180	6010
			MG	325.	ppm	MK	17-FEB-00	180	6010
			NA	659.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	13.	ppm	JN	28-FEB-00	28	353.2
			PB	2.5	ppm	MK	17-FEB-00	180	6010
			PH	8.0	pH	DC	07-FEB-00		150.1
			SE	0.28	ppm	MK	17-FEB-00	180	6010
			SO4=	899.	ppm	JN	09-FEB-00	28	9036
			TDS	2146.	ppm	DC	04-FEB-00	7	160.1
			TSS	14581.	ppm	DC	04-FEB-00		160.2
			ZN	1.7	ppm	KB	01-MAR-00	180	6020
L000152-009	31-JAN-00	EPRI-0002 108	AS	0.97	ppm	KB	01-MAR-00	180	6020
			CA	456.	ppm	MK	17-FEB-00	180	6010
			CD	0.076	ppm	KB	01-MAR-00	180	6020
			CL-	660.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00		310.1
			COND.	9530.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	<0.025	ppm	KB	01-MAR-00		6020
			F-	1.9	ppm	BD	10-FEB-00	28	340.2
			FE	1.7	ppm	MK	17-FEB-00	180	6010
			HCO3	291.	ppm CaCO3	DC	07-FEB-00	14	310.1

## ASARCÓ TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000152-009	31-JAN-00	EPRI-0002-108	K	48.	ppm	MK	17-FEB-00	180	6010
			MG	255.	ppm	MK	17-FEB-00	180	6010
			NA	1747.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	84.	ppm	JN	28-FEB-00	28	353.2
			PB	0.004	ppm	KB	01-MAR-00	180	6020
			PH	7.5	pH	DC	07-FEB-00		150.1
			SE	0.28	ppm	MK	17-FEB-00	180	6010
			SO4=	4280.	ppm	JN	09-FEB-00	28	9036
			TDS	8062.	ppm	DC	04-FEB-00	7	160.1
			TSS	104.	ppm	DC	04-FEB-00		160.2
			ZN	0.060	ppm	KB	01-MAR-00	180	6020
			AS	0.90	ppm	KB	01-MAR-00	180	6020
			CA	481.	ppm	MK	17-FEB-00	180	6010
			CD	0.066	ppm	KB	01-MAR-00	180	6020
			CL-	689.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	CaCO3	07-FEB-00		310.1
			COND.	9500.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	<0.025	ppm	KB	01-MAR-00		6020
			F-	1.8	ppm	BD	10-FEB-00	28	340.2
L000152-010	31-JAN-00	EPRI-0002-232	FE	1.9	ppm	MK	17-FEB-00	180	6010
			HCO3	281.	ppm	DC	07-FEB-00	14	310.1
			K	48.	ppm	MK	17-FEB-00	180	6010
			MG	268.	ppm	MK	17-FEB-00	180	6010
			NA	1769.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	84.	ppm	JN	28-FEB-00	28	353.2
			PB	0.007	ppm	KB	01-MAR-00	180	6020
			PH	7.5	pH	DC	07-FEB-00		150.1
			SE	0.29	ppm	MK	17-FEB-00	180	6010
			SO4=	4288.	ppm	JN	09-FEB-00	28	9036
			TDS	7844.	ppm	DC	04-FEB-00	7	160.1
			TSS	50.	ppm	DC	04-FEB-00		160.2
			ZN	0.055	ppm	KB	01-MAR-00	180	6020
			AS	0.92	ppm	KB	01-MAR-00	180	6020
			CA	502.	ppm	MK	17-FEB-00	180	6010
			CD	<0.005	ppm	KB	01-MAR-00	180	6020
			CL-	466.	ppm	JN	22-FEB-00	28	325.2
L000152-011	31-JAN-00	EPRI-0002-116	AS	0.92	ppm	KB	01-MAR-00	180	6020
			CA	502.	ppm	MK	17-FEB-00	180	6010

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000152-011	31-JAN-00	EPRI-0002-116	CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1	
			COND.	6660.	umhos/cm2	BD	04-FEB-00 28	120.1	
			CR	0.028	ppm	KB	01-MAR-00 180	6020	
			CU	0.046	ppm	KB	01-MAR-00	6020	
			F-	1.0	ppm	BD	10-FEB-00 28	340.2	
			FE	9.8	ppm	MK	17-FEB-00 180	6010	
			HCO3	499.	ppm CaCO3	DC	07-FEB-00 14	310.1	
			K	20.	ppm	MK	17-FEB-00 180	6010	
			MG	160.	ppm	MK	17-FEB-00 180	6010	
			NA	1071.	ppm	MK	02-MAR-00 180	6010	
			NO2/NO3	39.	ppm	JN	28-FEB-00 28	353.2	
			PB	0.033	ppm	KB	01-MAR-00 180	6020	
			PH	7.7	pH	DC	07-FEB-00	150.1	
			SE	0.96	ppm	MK	17-FEB-00 180	6010	
			SO4=	2414.	ppm	JN	09-FEB-00 28	9036	
			TDS	5452.	ppm	DC	04-FEB-00 7	160.1	
			TSS	522.	ppm	DC	04-FEB-00	160.2	
			ZN	0.044	ppm	KB	01-MAR 00 180	6020	
L000152-012	31-JAN-00	EPRI-0002-115	AS	0.13	ppm	KB	01-MAR-00 180	6020	
			CA	66.	ppm	MK	17-FEB-00 180	6010	
			CD	<0.005	ppm	KB	01-MAR 00 180	6020	
			CL-	344.	ppm	JN	22-FEB-00 28	325.2	
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1	
			COND.	3190.	umhos/cm2	BD	04-FEB-00 28	120.1	
			CR	0.030	ppm	KB	01-MAR-00 180	6020	
			CU	<0.025	ppm	KB	01-MAR 00	6020	
			F--	3.0	ppm	BD	10-FEB-00 28	340.2	
			FE	10.	ppm	MK	17-FEB-00 180	6010	
			HCO3	239.	ppm CaCO3	DC	07-FEB-00 14	310.1	
			K	18.	ppm	MK	17-FEB-00 180	6010	
			MG	21.	ppm	MK	17-FEB-00 180	6010	
			NA	686.	ppm	MK	02-MAR-00 180	6010	
			NO2/NO3	4.3	ppm	JN	28-FEB-00 28	353.2	
			PB	0.010	ppm	KB	01-MAR-00 180	6020	
			PH	8.1	pH	DC	07-FEB-00	150.1	
			SE	0.18	ppm	KB	01-MAR-00 180	6020	
			SO4=	897.	ppm	JN	09-FEB-00 28	9036	
			TDS	2063.	ppm	DC	04-FEB-00 7	160.1	

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000152-012	31-JAN-00	EPRI-0002-115	TSS	542.	ppm	DC	04-FEB-00	160.2	
			ZN	0.025	ppm	KB	01-MAR-00	180	6020
			AS	<0.005	ppm	KB	01-MAR-00	180	6020
			CA	85.	ppm	MK	17-FEB-00	180	6010
			CD	<0.005	ppm	KB	01-MAR-00	180	6020
			CL-	167.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1	
			COND.	1402.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	<0.025	ppm	KB	01-MAR-00	6020	
			F-	0.74	ppm	BD	10-FEB-00	28	340.2
			FE	1.1	ppm	MK	17-FEB-00	180	6010
			HCO3	200.	ppm CaCO3	DC	07-FEB-00	14	310.1
			K	7.3	ppm	MK	17-FEB-00	180	6010
			MG	19.	ppm	MK	17-FEB-00	180	6010
			NA	191.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	1.1	ppm	JN	28-FEB-00	28	353.2
			PB	<0.003	ppm	KB	01-MAR-00	180	6020
			PH	8.3	pH	DC	07-FEB-00	150.1	
			SE	<0.005	ppm	KB	01-MAR-00	180	6020
			SO4=	232.	ppm	JN	09-FEB-00	28	9036
			TDS	841.	ppm	DC	04-FEB-00	7	160.1
			TSS	67.	ppm	DC	04-FEB-00	160.2	
			ZN	<0.020	ppm	KB	01-MAR-00	180	6020
			AS	<0.005	ppm	KB	01-MAR-00	180	6020
			CA	91.	ppm	MK	02-MAR-00	180	6010
			CD	<0.005	ppm	KB	01-MAR-00	180	6020
			CL-	160.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1	
			COND.	1400.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	<0.025	ppm	KB	01-MAR-00	6020	
			F-	0.71	ppm	BD	10-FEB-00	28	340.2
			FE	1.2	ppm	MK	17-FEB-00	180	6010
			HCO3	197.	ppm CaCO3	DC	07-FEB-00	14	310.1
			K	8.6	ppm	MK	17-FEB-00	180	6010
			MG	21.	ppm	MK	17-FEB-00	180	6010
L000152-014	31-JAN-00	EPRI-0002-185							



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L000152-014	31-JAN-00	EPRI-0002-185	NA	193.	ppm	MK	02-MAR-00	180
			NO2/NO3	1.3	ppm	JN	28-FEB-00	28
			PB	<0.003	ppm	KB	01-MAR-00	180
			PH	8.3	pH	DC	07-FEB-00	150.1
			SE	<0.005	ppm	KB	01-MAR-00	180
			SO4=	235.	ppm	JN	09-FEB-00	28
			TDS	853.	ppm	DC	04-FEB-00	7
			TSS	64.	ppm	DC	04-FEB-00	160.2
			ZN	<0.020	ppm	KB	01-MAR-00	180
			AS	<0.005	ppm	KB	01-MAR-00	180
			CA	88.	ppm	MK	02-MAR-00	180
			CD	<0.005	ppm	KB	01-MAR-00	180
			CL-	185.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1
			COND.	1402.	umhos/cm2	BD	04-FEB-00	28
			CR	<0.010	ppm	KB	01-MAR-00	180
			CU	<0.025	ppm	KB	01-MAR-00	6020
			F-	0.73	ppm	BD	10-FEB-00	28
			FE	1.0	ppm	MK	17-FEB-00	180
			HCO3	196.	ppm	DC	07-FEB-00	14
L000152-015	31-JAN-00	EPRI-0002-188	K	7.6	ppm	MK	17-FEB-00	180
			MG	19.	ppm	MK	17-FEB-00	180
			NA	190.	ppm	MK	02-MAR-00	180
			NO2/NO3	1.3	ppm	JN	28-FEB-00	28
			PB	0.004	ppm	KB	01-MAR-00	180
			PH	8.3	pH	DC	07-FEB-00	150.1
			SE	<0.005	ppm	KB	01-MAR-00	180
			SO4=	248.	ppm	JN	09-FEB-00	28
			TDS	849.	ppm	DC	04-FEB-00	7
			TSS	67.	ppm	DC	04-FEB-00	160.2
			ZN	0.040	ppm	KB	01-MAR-00	180
			AS	<0.005	ppm	KB	01-MAR-00	180
			CA	88.	ppm	MK	02-MAR-00	180
			CD	<0.005	ppm	KB	01-MAR-00	180
			CL-	192.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1
			COND.	1412.	umhos/cm2	BD	04-FEB-00	28
			AS	<0.005	ppm	KB	01-MAR-00	180
			CA	88.	ppm	MK	02-MAR-00	180
			CD	<0.005	ppm	KB	01-MAR-00	180
L000152-016	31-JAN-00	EPRI-0002-187	CL-	192.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1
			COND.	1412.	umhos/cm2	BD	04-FEB-00	28
			AS	<0.005	ppm	KB	01-MAR-00	180
			CA	88.	ppm	MK	02-MAR-00	180
			CD	<0.005	ppm	KB	01-MAR-00	180
			CL-	192.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1
			COND.	1412.	umhos/cm2	BD	04-FEB-00	28
			AS	<0.005	ppm	KB	01-MAR-00	180

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L000152-016	31-JAN-00	EPRI-0002-187	CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	<0.025	ppm	KB	01-MAR-00		6020
			F-	0.70	ppm	BD	10-FEB-00	28	340.2
			FE	1.2	ppm	MK	17-FEB-00	180	6010
			HCO3	187.	ppm	DC	07-FEB-00	14	310.1
			K	8.4	ppm	MK	17-FEB-00	180	6010
			MG	21.	ppm	MK	17-FEB-00	180	6010
			NA	193.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	1.4	ppm	JN	28-FEB-00	28	353.2
			PB	0.005	ppm	KB	01-MAR-00	180	6020
			PH	8.2	pH	DC	07-FEB-00		150.1
			SE	<0.005	ppm	KB	01-MAR-00	180	6020
			SO4=	242.	ppm	JN	09-FEB-00	28	9036
			TDS	861.	ppm	DC	04-FEB-00	7	160.1
			TSS	62.	ppm	DC	04-FEB-00		160.2
			ZN	<0.020	ppm	KB	01-MAR-00	180	6020
L000152-017	01-FEB-00	EPRI-0002-112	AS	0.006	ppm	KB	01-MAR-00	180	6020
			CA	159.	ppm	MK	02-MAR-00	180	6010
			CD	<0.005	ppm	KB	01-MAR-00	180	6020
			CL-	1175.	ppm	JN	06-MAR-00	28	325.2
			CO3	<1.0	ppm	DC	07-FEB-00		310.1
			COND.	5120.	unhos/cm2	BD	04-FEB-00	28	120.1
			CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	<0.025	ppm	KB	01-MAR-00		6020
			F-	2.6	ppm	BD	10-FEB-00	28	340.2
			FE	0.43	ppm	MK	17-FEB-00	180	6010
			HCO3	1066.	ppm	DC	07-FEB-00	14	310.1
			K	29.	ppm	MK	17-FEB-00	180	6010
			MG	40.	ppm	MK	17-FEB-00	180	6010
			NA	940.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	0.16	ppm	JN	28-FEB-00	28	353.2
			PB	0.008	ppm	KB	01-MAR-00	180	6020
			PH	7.5	pH	DC	07-FEB-00		150.1
			SE	0.006	ppm	KB	01-MAR-00	180	6020
			SO4=	111.	ppm	JN	09-FEB-00	28	9036
			TDS	2742.	ppm	DC	04-FEB-00	7	160.1
			TSS	26.	ppm	DC	04-FEB-00		160.2
			ZN	<0.020	ppm	KB	01-MAR-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000152-018	01 FEB-00	EPRI-0002-111	AS	3.1	ppm	KB	01-MAR-00	180	6020
			CA	106.	ppm	MK	02-MAR-00	180	6010
			CD	0.006	ppm	KB	01-MAR-00	180	6020
			CL-	383.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	07-FEB-00		310.1
			COND.	4770.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	<0.010	ppm	KB	01-MAR-00	180	6020
			CU	0.15	ppm	KB	01-MAR-00		6020
			F-	3.3	ppm	BD	10-FEB-00	28	340.2
			FE	1.1	ppm	MK	17-FEB-00	180	6010
			HCO3	393.	ppm	DC	07-FEB-00	14	310.1
			K	52.	ppm	MK	17-FEB-00	180	6010
			MG	56.	ppm	MK	17-FEB-00	180	6010
			NA	654.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	0.19	ppm	JN	28-FEB-00	28	353.2
			PB	0.081	ppm	KB	01-MAR-00	180	6020
			PH	7.8	pH	DC	07-FEB-00		150.1
			SE	0.012	ppm	KB	01-MAR-00	180	6020
			SO4=	1386.	ppm	JN	09-FEB-00	28	9036
			TDS	2695.	ppm	DC	04-FEB-00	7	160.1
			TSS	20.	ppm	DC	04-FEB-00		160.2
			ZN	0.10	ppm	KB	01-MAR-00	180	6020
L000152-019	01-FEB-00	EPRI-0002-124	AS	2.7	ppm	KB	01-MAR-00	180	6020
			CA	299.	ppm	MK	02-MAR-00	180	6010
			CD	<0.005	ppm	KB	01-MAR-00	180	6020
			CL-	455.	ppm	JN	22-FEB-00	28	325.2
			CO3	<1.0	ppm	DC	07-FEB-00		310.1
			COND.	5120.	umhos/cm2	BD	04-FEB-00	28	120.1
			CR	0.012	ppm	KB	01-MAR-00	180	6020
			CU	0.028	ppm	KB	01-MAR-00		6020
			F-	2.4	ppm	BD	10-FEB-00	28	340.2
			FE	29.	ppm	MK	17-FEB-00	180	6010
			HCO3	283.	ppm	DC	07-FEB-00	14	310.1
			K	30.	ppm	MK	17-FEB-00	180	6010
			MG	59.	ppm	MK	17-FEB-00	180	6010
			NA	993.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	0.45	ppm	JN	29-FEB-00	28	353.2
			PB	0.017	ppm	KB	01-MAR-00	180	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L000152-019	01-FEB-00	EPRI-0002-124	PH	7.8	pH	DC	07-FEB-00	150.1
			SE	0.050	ppm	KB	01-MAR-00	180
			SO4=	1779.	ppm	JN	09-FEB-00	28
			TDS	3627.	ppm	DC	04-FEB-00	7
			TSS	849.	ppm	DC	04-FEB-00	160.1
			ZN	0.045	ppm	KB	01-MAR-00	180
					ppm			6020
L000152-020	01-FEB-00	EPRI-0002-233	AS	2.1	ppm	KB	01-MAR-00	180
			CA	292.	ppm	MK	02-MAR-00	180
			CD	<0.005	ppm	KB	01-MAR-00	180
			CL-	639.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm	CaCO3	07-FEB-00	310.1
			COND.	5080.	umhos/cm2	BD	04-FEB-00	28
			CR	0.012	ppm	KB	01-MAR-00	180
			CU	0.030	ppm	KB	01-MAR-00	6020
			F-	2.4	ppm	BD	10-FEB-00	28
			FE	23.	ppm	MK	17-FEB-00	180
			HCO3	290.	ppm	CaCO3	07-FEB-00	14
			K	26.	ppm	MK	17-FEB-00	180
			MG	54.	ppm	MK	17-FEB-00	180
			NA	994.	ppm	MK	02-MAR-00	180
			NO2/NO3	0.45	ppm	JN	28-FEB-00	28
			PB	0.015	ppm	KB	01-MAR-00	180
			PH	7.8	pH	DC	07-FEB-00	150.1
			SE	0.051	ppm	KB	01-MAR-00	180
			SO4=	1602.	ppm	JN	09-FEB-00	28
			TDS	3421.	ppm	DC	04-FEB-00	7
			TSS	855.	ppm	DC	04-FEB-00	160.1
			ZN	0.041	ppm	KB	01-MAR-00	180
					ppm			6020
L000152-021	01-FEB-00	EPRI-0002-121	AS	45.	ppm	MK	17-FEB-00	180
			CA	473.	ppm	MK	02-MAR-00	180
			CD	1.2	ppm	KB	01-MAR-00	180
			CL-	403.	ppm	JN	22-FEB-00	28
			CO3	<1.0	ppm	CaCO3	07-FEB-00	310.1
			COND.	7520.	umhos/cm2	BD	04-FEB-00	28
			CR	<0.010	ppm	KB	01-MAR-00	180
			CU	0.040	ppm	KB	01-MAR-00	6020
			F-	5.3	ppm	BD	10-FEB-00	28
								340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000152

LAR NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000152-021	01 FEB-00	EPRI 0002 121	FE	13.	ppm	MK	17-FEB-00	180	6010
			HCO3	290.	ppm	DC	07-FEB-00	14	310.1
			K	80.	ppm	MK	17-FEB-00	180	6010
			MG	101.	ppm	MK	17-FEB-00	180	6010
			NA	1337.	ppm	MK	02-MAR-00	180	6010
			NO2/NO3	113.	ppm	JN	29-FEB-00	28	353.2
			PB	0.011	ppm	KB	01-MAR-00	180	6020
			PH	7.6	pH	DC	07-FEB-00		150.1
			SE	1.1	ppm	MK	17-FEB-00	180	6010
			SO4=	2786.	ppm	JN	09-FEB-00	28	9036
			TDS	5620.	ppm	DC	04-FEB-00	7	160.1
			TSS	818.	ppm	DC	04-FEB-00		160.2
			ZN	4.0	ppm	KS	01-MAR-00	180	6020

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

*[Signature]*  
Approved

*[Signature]*  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000125

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000125-1		Matrix Spike	AS	101	%Recovery	KB	01-MAR-00		6020
			CD	99	%Recovery	KB	01-MAR-00		6020
			CL-	91	%Recovery	JN	22-FEB-00		325.2
			CR	102	%Recovery	KB	01-MAR-00		6020
			CU	91	%Recovery	KB	01-MAR-00		6020
			F-	94	%Recovery	BD	10-FEB-00		340.2
			FE	94	%Recovery	MK	17-FEB-00		6010
			NO2/NO3	96	%Recovery	JN	28-FEB-00		353.2
			PB	101	%Recovery	KB	01-MAR-00		6020
			SE	99	%Recovery	KB	01-MAR-00		6020
			SO4=	90	%Recovery	JN	09-FEB-00		9036
			ZN	100	%Recovery	KB	01-MAR-00		6020
			AS	<0.005	ppm	KB	01-MAR-00		6020
			CA	<1.0	ppm	MK	17-FEB-00		6010
			CD	<0.005	ppm	KB	01-MAR-00		6020
			CL-	<1.0	ppm	JN	22-FEB-00		325.2
WG000125-2		Prep Blank	CO3	<1.0	ppm CaCO3	DC	07-FEB-00		310.1
			COND.	<5.0	umhos/cm2	BD	04-FEB-00		120.1
			CR	<0.010	ppm	KB	01-MAR-00		6020
			CU	<0.025	ppm	KB	01-MAR-00		6020
			F-	<0.050	ppm	BD	10-FEB-00		340.2
			FE	<0.10	ppm	MK	17-FEB-00		6010
			HCO3	<1.0	ppm CaCO3	DC	07-FEB-00		310.1
			K	<5.0	ppm	MK	17-FEB-00		6010
			MG	<1.0	ppm	MK	17-FEB-00		6010
			NA	<5.0	ppm	MK	02-MAR-00		6010
			NO2/NO3	<0.10	ppm	JN	28-FEB-00		353.2
			PB	<0.003	ppm	KB	01-MAR-00		6020
			SE	<0.005	ppm	KB	01-MAR-00		6020
			SO4=	<2.0	ppm	JN	09-FEB-00		9036
			TDS	<10.	ppm	DC	04-FEB-00		160.1
			TSS	<1.0	ppm	DC	04-FEB-00		160.2
			ZN	<0.020	ppm	KB	01-MAR-00		6020
			AS	103	%Recovery	KB	01-MAR-00		6020
			CA	101	%Recovery	MK	17-FEB-00		6010
			CD	103	%Recovery	KB	01-MAR-00		6020
			CL-	110	%Recovery	JN	22-FEB-00		325.2
WG000125-3		Lab Control Sample							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000125

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
WG000125-3		Lab Control Sample						
			COND.	100	% Recovery	BD	04-FEB-00	120.1
			CR	105	% Recovery	KB	01-MAR-00	6020
			CU	99	% Recovery	KB	01-MAR-00	6020
			F-	95	% Recovery	BD	10-FEB-00	340.2
			FE	101	% Recovery	MK	17-FEB-00	6010
			HCO3	99	% Recovery	DC	07-FEB-00	310.1
			K	97	% Recovery	MK	17-FEB-00	6010
			MG	100	% Recovery	MK	17-FEB-00	6010
			NA	97	% Recovery	MK	02-MAR-00	6010
			NO2/NO3	89	% Recovery	JN	28-FEB-00	353.2
			PB	103	% Recovery	KB	01-MAR-00	6020
			SE	111	% Recovery	KB	01-MAR-00	6020
			SO4=	93	% Recovery	JN	09-FEB-00	9036
			TDS	94	% Recovery	DC	04-FEB-00	160.1
			TSS	98	% Recovery	DC	04-FEB-00	160.2
			ZN	111	% Recovery	KB	01-MAR-00	6020
WG000125-4		Duplicate						
			AS	<1	% RPD	KB	01-MAR-00	6020
			CA	6.7	% RPD	MK	17-FEB-00	6010
			CD	<1	% RPD	KB	01-MAR-00	6020
			CL-	2.9	% RPD	JN	22-FEB-00	325.2
			CO3	<1	% RPD	DC	07-FEB-00	310.1
			COND.	<1	% RPD	BD	04-FEB-00	120.1
			CR	8.0	% RPD	KB	01-MAR-00	6020
			CU	<1	% RPD	KB	01-MAR-00	6020
			F-	11	% RPD	BD	10-FEB-00	340.2
			FE	8.3	% RPD	MK	17-FEB-00	6010
			HCO3	1.4	% RPD	DC	07-FEB-00	310.1
			K	5.7	% RPD	MK	17-FEB-00	6010
			MG	6.7	% RPD	MK	17-FEB-00	6010
			NA	5.9	% RPD	MK	17-FEB-00	6010
			NO2/NO3	<1	% RPD	JN	28-FEB-00	353.2
			PB	103	% RPD	KB	01-MAR-00	6020
			SE	<1	% RPD	KB	01-MAR-00	6020
			SO4=	6.2	% RPD	JN	09-FEB-00	9036
			TDS	1.4	% RPD	DC	04-FEB-00	160.1
			TSS	9.4	% RPD	DC	04-FEB-00	160.2
			ZN	2.4	% RPD	KB	01-MAR-00	6020

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000125

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000125-5		Practical Quantitation 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				6020
			CU	0.025	ppm				6020
			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				150.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020
WG000125-6		Matrix Spike	AS	SR>4XSA	\$Recovery	MK	17-FEB-00		6010
			CD	99	\$Recovery	KB	01-MAR-00		6020
			CL-	101	\$Recovery	JN	22-FEB-00		325.2
			CR	93	\$Recovery	MK	17-FEB-00		6010
			CU	107	\$Recovery	MK	17-FEB-00		6010
			F-	94	\$Recovery	BD	10-FEB-00		340.2
			FE	95	\$Recovery	MK	17-FEB-00		6010
			NO2/NO3	86	\$Recovery	JN	28-FEB-00		353.2
			PB	90	\$Recovery	MK	17-FEB-00		6010
			SE	88	\$Recovery	MK	17-FEB-00		6010
			SO4=	89	\$Recovery	JN	09-FEB-00		9036
			ZN	99	\$Recovery	KB	01-MAR-00		6020
WG000125-7		Prep Blank	AS	<0.050	ppm	MK	17-FEB-00		6010
			CA	<1.0	ppm	MK	02-MAR-00		6010
			CD	<0.005	ppm	KB	01-MAR-00		6020
			CL-	<1.0	ppm	JN	22-FEB-00		325.2



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000125

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	WORLD DAYS METHOD
WG000125-7		Prep Blank	CO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1
			COND.	<5.0	umhos/cm2	BD	04-FEB-00	120.1
			CR	<0.010	ppm	MK	17-FEB-00	6010
			CU	<0.025	ppm	MK	17-FEB-00	6010
			F-	<0.050	ppm	BD	10-FEB-00	340.2
			FE	<0.10	ppm	MK	17-FEB-00	6010
			HCO3	<1.0	ppm CaCO3	DC	07-FEB-00	310.1
			K	<5.0	ppm	MK	17-FEB-00	6010
			MG	<1.0	ppm	MK	17-FEB-00	6010
			NA	<5.0	ppm	MK	02-MAR-00	6010
			NO2/NO3	<0.10	ppm	JN	28-FEB-00	353.2
			PB	<0.020	ppm	MK	17-FEB-00	6010
			SE	<0.020	ppm	MK	17-FEB-00	6010
			SO4=	<2.0	ppm	JN	09-FEB-00	9036
			TDS	<10.	ppm	DC	04-FEB-00	160.1
			TSS	<1.0	ppm	DC	04-FEB-00	160.2
			ZN	<0.020	ppm	KB	01-MAR-00	6020
			AS	93	%Recovery	MK	17-FEB-00	6010
			CA	101	%Recovery	MK	02-MAR-00	6010
			CD	104	%Recovery	KB	01-MAR-00	6020
WG000125-8		Lab Control Sample	CL-	105	%Recovery	JN	22-FEB-00	325.2
			COND.	101	%Recovery	BD	04-FEB-00	120.1
			CR	99	%Recovery	MK	17-FEB-00	6010
			CU	101	%Recovery	MK	17-FEB-00	6010
			F-	95	%Recovery	BD	10-FEB-00	340.2
			FE	107	%Recovery	MK	17-FEB-00	6010
			HCO3	96	%Recovery	DC	07-FEB-00	310.1
			K	90	%Recovery	MK	17-FEB-00	6010
			MG	95	%Recovery	MK	17-FEB-00	6010
			NA	108	%Recovery	MK	02-MAR-00	6010
			NO2/NO3	100	%Recovery	JN	28-FEB-00	353.2
			PB	98	%Recovery	MK	17-FEB-00	6010
			SE	85	%Recovery	MK	17-FEB-00	6010
			SO4=	97	%Recovery	JN	09-FEB-00	9036
			TDS	98	%Recovery	DC	04-FEB-00	160.1
			TSS	98	%Recovery	DC	04-FEB-00	160.2
			ZN	110	%Recovery	KB	01-MAR-00	6020

## ASARCO TECHNICAL SERVICES CENTER

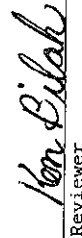
## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000125

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
WG000125-9		Duplicate						
			AS	4.9	% RPD	MK	17-FEB-00	6010
			CA	7.8	% RPD	MK	17-FEB-00	6010
			CD	<1	% RPD	KB	01-MAR-00	6020
			CL-	2.9	% RPD	JN	22-FEB-00	325.2
			CO3	<1	% RPD	DC	07-FEB-00	310.1
			COND.	<1	% RPD	BD	04-FEB-00	120.1
			CR	13	% RPD	MK	17 FEB 00	6010
			CU	9.5	% RPD	MK	17-FEB-00	6010
			F-	3.4	% RPD	BD	10-FEB-00	340.2
			FE	8.5	% RPD	MK	17-FEB-00	6010
			HCO3	1.1	% RPD	DC	07-FEB-00	310.1
			K	8.8	% RPD	MK	17-FEB-00	6010
			MG	8.8	% RPD	MK	17-FEB-00	6010
			NA	7.8	% RPD	MK	17-FEB-00	6010
			NO2/NO3	<1	% RPD	JN	28-FEB-00	353.2
			PB	6.3	% RPD	MK	17-FEB-00	6010
			SE	8.7	% RPD	MK	17-FEB-00	6010
			SO4=	1.7	% RPD	JN	09-FEB-00	9036
			TDS	1.0	% RPD	DC	04-FEB-00	160.1
			TSS	2.1	% RPD	DC	04-FEB-00	160.2
			ZN	9.8	% RPD	KB	01-MAR-00	6020

  
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.	GPAB		SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>		BTEX
0931VZ	ASARCO - EL PASO, TX												
SAMPLERS: (Signature) <i>Douglas M. Golan</i>													
1310	900			EPR1-0002-178	X	X			X				
920				EPR1-0002-179	X	X			X				
1000				EPR1-0002-180	X	X			X				
1015				EPR1-0002-181	X	X			X				
1045				EPR1-0002-200	X	X			X				
1110				EPR1-0002-195	X	X			X				
1120				EPR1-0002-231	X	X			X				
1300				EPR1-0002-182	X	X			X				
1340				EPR1-0002-108	X	X			X				
1345				EPR1-0002-232	X	X			X				
1400				EPR1-0002-116	X	X			X				
1420				EPR1-0002-115	X	X			X				
1515				EPR1-0002-183	X	X			X				
1500				EPR1-0002-185	X	X			X				
1530				EPR1-0002-188	X	X			X				
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
Date/Time		Date/Time		TSC				Other					
2/10/00 16:00		2/10/00 16:00		SLS, VSC				Air Bill #					
Relinquished (Signature)		Received by: (Signature)		Remarks									
Date/Time		Date/Time		2-2-2000 17:30									
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits							
Date/Time		Date/Time		2-2-2000 17:30		<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter							
Date/Time		Date/Time		2-2-2000 17:30		<input type="checkbox"/> Other							
Date/Time		Date/Time		2-2-2000 17:30		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined							

# Hydrometals, C:

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

[illegible]

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000196

LAR NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	POINT
L000196-001	08-FEB-00	EPRI-0002-216	AS	5800	ppm	LCS	29-FEB-00	EDXRF
			CD	2700	ppm	LCS	29-FEB-00	EDXRF
			CR	<80	ppm	LCS	29-FEB-00	EDXRF
			CU	25000	ppm	LCS	29-FEB-00	EDXRF
			FE	3.5	%	LCS	29-FEB-00	EDXRF
			PB	7300	ppm	LCS	29-FEB-00	EDXRF
			SE	200	ppm	LCS	29-FEB-00	EDXRF
			ZN	21000	ppm	LCS	29-FEB-00	EDXRF
L000196-002	08-FEB-00	EPRI-0002-217	AS	3300	ppm	LCS	29-FEB-00	EDXRF
			CD	1200	ppm	LCS	29-FEB-00	EDXRF
			CR	100	ppm	LCS	29-FEB-00	EDXRF
			CU	74000	ppm	LCS	29-FEB-00	EDXRF
			FE	7.8	%	LCS	29-FEB-00	EDXRF
			PB	36000	ppm	LCS	29-FEB-00	EDXRF
			SE	220	ppm	LCS	29-FEB-00	EDXRF
			ZN	29000	ppm	LCS	29-FEB-00	EDXRF
L000196-003	08-FEB-00	EPRI-0002-218	AS	1400	ppm	LCS	29-FEB-00	EDXRF
			CD	440	ppm	LCS	29-FEB-00	EDXRF
			CR	<80	ppm	LCS	29-FEB-00	EDXRF
			CU	22000	ppm	LCS	29-FEB-00	EDXRF
			FE	3.8	%	LCS	29-FEB-00	EDXRF
			PB	3700	ppm	LCS	29-FEB-00	EDXRF
			SE	73	ppm	LCS	29-FEB-00	EDXRF
			ZN	5800	ppm	LCS	29-FEB-00	EDXRF
L000196-004	14-FEB-00	EPRI-0002-205	AS	<10	ppm	LCS	29-FEB-00	EDXRF
			CD	15	ppm	LCS	29-FEB-00	EDXRF
			CR	<80	ppm	LCS	29-FEB-00	EDXRF
			CU	95	ppm	LCS	29-FEB-00	EDXRF
			FE	1.5	%	LCS	29-FEB-00	EDXRF
			PB	48	ppm	LCS	29-FEB-00	EDXRF
			SE	<10	ppm	LCS	29-FEB-00	EDXRF
			ZN	42	ppm	LCS	29-FEB-00	EDXRF
L000196-005	14-FEB-00	EPRI-0002-210	AS	<10	ppm	LCS	29-FEB-00	EDXRF
			CD	<10	ppm	LCS	29-FEB-00	EDXRF
			CR	<80	ppm	LCS	29-FEB-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000196

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000196-005	14-FEB-00	EPRI-0002-210	CU	22	ppm	LCS	29-FEB-00		EDXRF
			FE	1.5	%	LCS	29-FEB-00		EDXRF
			PB	20	ppm	LCS	29-FEB-00		EDXRF
			SE	<10	ppm	LCS	29-FEB-00		EDXRF
			ZN	29	ppm	LCS	29-FEB-00		EDXRF
L000196-006	14-FEB-00	EPRI-0002-211	AS	<10	ppm	LCS	29-FEB-00		EDXRF
			CD	<10	ppm	LCS	29-FEB-00		EDXRF
			CR	<80	ppm	LCS	29-FEB-00		EDXRF
			CU	41	ppm	LCS	29-FEB-00		EDXRF
			FE	1.1	%	LCS	29-FEB-00		EDXRF
L000196-007	14-FEB-00	EPRI-0002-212	PB	12	ppm	LCS	29-FEB-00		EDXRF
			SE	<10	ppm	LCS	29-FEB-00		EDXRF
			ZN	<10	ppm	LCS	29-FEB-00		EDXRF
			AS	<10	ppm	LCS	29-FEB-00		EDXRF
			CD	<10	ppm	LCS	29-FEB-00		EDXRF
L000196-008	14-FEB-00	EPRI-0002-213	CR	<80	ppm	LCS	29-FEB-00		EDXRF
			CU	130	ppm	LCS	29-FEB-00		EDXRF
			FE	2.5	%	LCS	29-FEB-00		EDXRF
			PB	34	ppm	LCS	29-FEB-00		EDXRF
			SE	<10	ppm	LCS	29-FEB-00		EDXRF
L000196-009	14-FEB-00	EPRI-0002-214	ZN	65	ppm	LCS	29-FEB-00		EDXRF
			AS	12	ppm	LCS	29-FEB-00		EDXRF
			CD	12	ppm	LCS	29-FEB-00		EDXRF
			CR	<80	ppm	LCS	29-FEB-00		EDXRF
			CU	34	ppm	LCS	29-FEB-00		EDXRF
L000196-009	14-FEB-00	EPRI-0002-214	FE	2.4	%	LCS	29-FEB-00		EDXRF
			PB	23	ppm	LCS	29-FEB-00		EDXRF
			SE	<10	ppm	LCS	29-FEB-00		EDXRF
			ZN	42	ppm	LCS	29-FEB-00		EDXRF
			AS	<10	ppm	LCS	29-FEB-00		EDXRF
L000196-009	14-FEB-00	EPRI-0002-214	CD	12	ppm	LCS	29-FEB-00		EDXRF
			CR	<80	ppm	LCS	29-FEB-00		EDXRF
			CU	96	ppm	LCS	29-FEB-00		EDXRF
			FE	2.1	%	LCS	29-FEB-00		EDXRF
			PB	66	ppm	LCS	29-FEB-00		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000196

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000196-009	14-FEB-00	EPRI-0002-214	SE	<10	ppm	LCS	29-FEB-00		EDXRF
			ZN	89	ppm	LCS	29-FEB-00		EDXRF
			AS	<10	ppm	LCS	29-FEB-00		EDXRF
			CD	<10	ppm	LCS	29-FEB-00		EDXRF
			CR	<80	ppm	LCS	29-FEB-00		EDXRF
			CU	70	ppm	LCS	29-FEB-00		EDXRF
L000196-010	14-FEB-00	EPRI-0002-207	FE	1.9	%	LCS	29-FEB-00		EDXRF
			PB	19	ppm	LCS	29-FEB-00		EDXRF
			SE	<10	ppm	LCS	29-FEB-00		EDXRF
			ZN	36	ppm	LCS	29-FEB-00		EDXRF
			AS	1400	ppm	LCS	29-FEB-00		EDXRF
			CD	51	ppm	LCS	29-FEB-00		EDXRF
L000196-011	08-FEB-00	EPRI-0002-215	CR	130	ppm	LCS	29-FEB-00		EDXRF
			CU	15000	ppm	LCS	29-FEB-00		EDXRF
			FE	26	%	LCS	29-FEB-00		EDXRF
			PB	5100	ppm	LCS	29-FEB-00		EDXRF
			SE	<10	ppm	LCS	29-FEB-00		EDXRF
			ZN	18000	ppm	LCS	29-FEB-00		EDXRF

Approved

*[Signature]*

Reviewer

# HYDROMETRICS, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO. PROJECT NAME		NO. OF CON-TAINERS		ANALYSIS										REMARKS	
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH				
2800	930		X	EPR1-0002-216	1-BAG										
↓	950		X	EPR1-0002-217	1-BAG										
↓	1000		X	EPR1-0002-218	1-BAG										
2400	945		X	EPR1-0002-205	1-BAG										
↓	815		X	EPR1-0002-210	1-BAG										
↓	1015		X	EPR1-0002-211	1-BAG										
↓	1000		X	EPR1-0002-212	1-BAG										
↓	930		X	EPR1-0002-213	1-BAG										
↓	905		X	EPR1-0002-214	1-BAG										
↓	845		X	EPR1-0002-207	1-BAG										
/															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
<i>[Signature]</i>		2/14/00 1600		<i>[Signature]</i>		TSC				Other					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
<i>[Signature]</i>		2/14/00 1600		<i>[Signature]</i>		SLE, UT									
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time									
<i>[Signature]</i>		2/14/00 1600		<i>[Signature]</i>		2:15.00 1130									
Enclosed: <input type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other												Split Samples: <input type="checkbox"/> As Received <input type="checkbox"/> Ductlined			





## **SECTION I-8**

### **LABORATORY REPORTS FOR SOIL SAMPLES**



# ASARCO

RECEIVED

AUG 26 1999

HYDROMETRICS, INC.

August 13, 1999

Lairy Johnson  
Hydrometrics, Inc  
Arizona

Please find attached the X-ray results for your El Paso soil samples collected on the 19<sup>th</sup> 20<sup>th</sup> and 21<sup>st</sup> of July. Also attached are the X-ray QC results.

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



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



L991291, L991292, L991293

CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As	% REC	Pb	% REC
619	88	8019	99
613	88	7923	98
617	88	8053	100
638	91	8089	100
609	87	8079	100
612	87	8191	102
609	87	8016	99

LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As	% REC	Pb	% REC
953	104	217	92
955	104	223	94
975	106	217	92
959	105	221	94

DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991291-20	<20	<20	BDL	28	40	35
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	125	BDL
	Cu	Cu		Fe	Fe	
	<20	<20	BDL	2.1	2.1	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	57	14	121

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991292-20	<20	<20	BDL	49	49	0
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	188	90	71
	Cu	Cu		Fe	Fe	
	32	<20	BDL	2	1.9	5
	Se	Se		Zn	Zn	
	<10	20	BDL	39	41	5

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991293-20	772	796	3	5641	5706	1
	Cd	Cd		Cr	Cr	
	206	225	9	<80	89	BDL
	Cu	Cu		Fe	Fe	
	5939	6129	3	2.9	2.9	0
	Se	Se		Zn	Zn	
	99	98	1	3473	3436	1

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991293-25	1720	1614	6	7224	7252	0
	Cd	Cd		Cr	Cr	
	360	360	0	271	208	26
	Cu	Cu		Fe	Fe	
	10259	10302	0	3.6	3.6	0
	Se	Se		Zn	Zn	
	21	17	21	6069	6082	0

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
20PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991293

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991293-001	20-JUL-99	BH11-1-N2	AS	<20	ppm	LCS	12-AUG-99	EDXRF
			CD	<10	ppm	LCS	12-AUG-99	EDXRF
			CR	160	ppm	LCS	12-AUG-99	EDXRF
			CU	57	ppm	LCS	12-AUG-99	EDXRF
			FE	1.9	%	LCS	12-AUG-99	EDXRF
			PB	51	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	<10	ppm	LCS	12-AUG-99	EDXRF
			AS	<20	ppm	LCS	12-AUG-99	EDXRF
			CD	<10	ppm	LCS	12-AUG-99	EDXRF
L991293-002	20-JUL-99	BH11-1-I	CR	<80	ppm	LCS	12-AUG-99	EDXRF
			CU	<20	ppm	LCS	12-AUG-99	EDXRF
			FE	2.4	%	LCS	12-AUG-99	EDXRF
			PB	50	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	34	ppm	LCS	12-AUG-99	EDXRF
			AS	<20	ppm	LCS	12-AUG-99	EDXRF
			CD	<10	ppm	LCS	12-AUG-99	EDXRF
			CR	<80	ppm	LCS	12-AUG-99	EDXRF
			CU	41	ppm	LCS	12-AUG-99	EDXRF
L991293-003	20-JUL-99	BH11-1-M	FE	2.0	%	LCS	12-AUG-99	EDXRF
			PB	46	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	41	ppm	LCS	12-AUG-99	EDXRF
			AS	<20	ppm	LCS	12-AUG-99	EDXRF
			CD	<10	ppm	LCS	12-AUG-99	EDXRF
			CR	<80	ppm	LCS	12-AUG-99	EDXRF
			CU	41	ppm	LCS	12-AUG-99	EDXRF
			FE	2.0	%	LCS	12-AUG-99	EDXRF
			PB	46	ppm	LCS	12-AUG-99	EDXRF
L991293-004	20-JUL-99	SS1A11-6B	SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	41	ppm	LCS	12-AUG-99	EDXRF
			AS	920	ppm	LCS	12-AUG-99	EDXRF
			CD	380	ppm	LCS	12-AUG-99	EDXRF
			CR	290	ppm	LCS	12-AUG-99	EDXRF
			CU	5800	ppm	LCS	12-AUG-99	EDXRF
			FE	2.8	%	LCS	12-AUG-99	EDXRF
			PB	12000	ppm	LCS	12-AUG-99	EDXRF
			SE	29	ppm	LCS	12-AUG-99	EDXRF
			ZN	4100	ppm	LCS	12-AUG-99	EDXRF
L991293-005	20-JUL-99	SS1A11-6A	AS	480	ppm	LCS	12-AUG-99	EDXRF
			CD	120	ppm	LCS	12-AUG-99	EDXRF
			CR	<80	ppm	LCS	12-AUG-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991293

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991293-005	20-JUL-99	SS1A11-6A	CU	3600	ppm	LCS	12-AUG-99		EDXRF
			FE	2.9	%	LCS	12-AUG-99		EDXRF
			PB	2000	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	1200	ppm	LCS	12-AUG-99		EDXRF
L991293-006	20-JUL-99	SS1A11-6C	AS	4400	ppm	LCS	12-AUG-99		EDXRF
			CD	350	ppm	LCS	12-AUG-99		EDXRF
			CR	180	ppm	LCS	12-AUG-99		EDXRF
			CU	18000	ppm	LCS	12-AUG-99		EDXRF
			FE	3.5	%	LCS	12-AUG-99		EDXRF
			PB	2100	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	4100	ppm	LCS	12-AUG-99		EDXRF
L991293-007	20-JUL-99	SS1A11-6D	AS	7300	ppm	LCS	12-AUG-99		EDXRF
			CD	620	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	48000	ppm	LCS	12-AUG-99		EDXRF
			FE	4.2	%	LCS	12-AUG-99		EDXRF
			PB	3100	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	10000	ppm	LCS	12-AUG-99		EDXRF
L991293-008	21-JUL-99	EP93-K	AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	<20	ppm	LCS	12-AUG-99		EDXRF
			FE	1.9	%	LCS	12-AUG-99		EDXRF
			PB	42	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	15	ppm	LCS	12-AUG-99		EDXRF
L991293-009	21-JUL-99	EP93-J2	AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	13	ppm	LCS	12-AUG-99		EDXRF
			CR	140	ppm	LCS	12-AUG-99		EDXRF
			CU	<20	ppm	LCS	12-AUG-99		EDXRF
			FE	2.4	%	LCS	12-AUG-99		EDXRF
			PB	45	ppm	LCS	12-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991293

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								DATE	METHOD
L991293-009	21-JUL-99	EP93-J2	SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	49	ppm	LCS	12-AUG-99		EDXRF
L991293-010	21-JUL-99	EP93-H	AS	160	ppm	LCS	12-AUG-99		EDXRF
			CD	35	ppm	LCS	12-AUG-99		EDXRF
			CR	170	ppm	LCS	12-AUG-99		EDXRF
			CU	840	ppm	LCS	12-AUG-99		EDXRF
			FE	2.7	%	LCS	12-AUG-99		EDXRF
			PB	1600	ppm	LCS	12-AUG-99		EDXRF
			SE	11	ppm	LCS	12-AUG-99		EDXRF
			ZN	1300	ppm	LCS	12-AUG-99		EDXRF
L991293-011	21-JUL-99	EP93-G	AS	360	ppm	LCS	12-AUG-99		EDXRF
			CD	88	ppm	LCS	12-AUG-99		EDXRF
			CR	240	ppm	LCS	12-AUG-99		EDXRF
			CU	3700	ppm	LCS	12-AUG-99		EDXRF
			FE	4.3	%	LCS	12-AUG-99		EDXRF
			PB	3900	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	3500	ppm	LCS	12-AUG-99		EDXRF
L991293-012	21-JUL-99	EP93-J	AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	140	ppm	LCS	12-AUG-99		EDXRF
			CU	<20	ppm	LCS	12-AUG-99		EDXRF
			FE	2.3	%	LCS	12-AUG-99		EDXRF
			PB	49	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	51	ppm	LCS	12-AUG-99		EDXRF
L991293-013	21-JUL-99	SS1A11-8-E	AS	890	ppm	LCS	12-AUG-99		EDXRF
			CD	230	ppm	LCS	12-AUG-99		EDXRF
			CR	170	ppm	LCS	12-AUG-99		EDXRF
			CU	7500	ppm	LCS	12-AUG-99		EDXRF
			FE	3.4	%	LCS	12-AUG-99		EDXRF
			PB	5800	ppm	LCS	12-AUG-99		EDXRF
			SE	23	ppm	LCS	12-AUG-99		EDXRF
			ZN	4500	ppm	LCS	12-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991293

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991293-014	21-JUL-99	EP93-I	AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	39	ppm	LCS	12-AUG-99		EDXRF
			FE	2.2	%	LCS	12-AUG-99		EDXRF
			PB	38	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	39	ppm	LCS	12-AUG-99		EDXRF
			AS	27	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
L991293-015	21-JUL-99	EP-93A	CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	66	ppm	LCS	12-AUG-99		EDXRF
			FE	2.6	%	LCS	12-AUG-99		EDXRF
			PB	93	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	110	ppm	LCS	12-AUG-99		EDXRF
			AS	560	ppm	LCS	12-AUG-99		EDXRF
			CD	610	ppm	LCS	12-AUG-99		EDXRF
			CR	230	ppm	LCS	12-AUG-99		EDXRF
			CU	3400	ppm	LCS	12-AUG-99		EDXRF
L991293-016	21-JUL-99	SSIA11-8-A	FE	2.8	%	LCS	12-AUG-99		EDXRF
			PB	2900	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	2800	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	57	ppm	LCS	12-AUG-99		EDXRF
			FE	2.4	%	LCS	12-AUG-99		EDXRF
			PB	39	ppm	LCS	12-AUG-99		EDXRF
L991293-017	21-JUL-99	EP93-L	SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	69	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	57	ppm	LCS	12-AUG-99		EDXRF
			FE	2.4	%	LCS	12-AUG-99		EDXRF
			PB	39	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	69	ppm	LCS	12-AUG-99		EDXRF
L991293-018	21-JUL-99	EP93-F	AS	110	ppm	LCS	12-AUG-99		EDXRF
			CD	270	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
									EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991293

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991293-018	21-JUL-99	EP93-F	CU	1600	ppm	LCS	12-AUG-99		EDXRF
			FE	2.2	%	LCS	12-AUG-99		EDXRF
			PB	5600	ppm	LCS	12-AUG-99		EDXRF
			SE	22	ppm	LCS	12-AUG-99		EDXRF
			ZN	2200	ppm	LCS	12-AUG-99		EDXRF
L991293-019	21-JUL-99	EP93-E	AS	7100	ppm	LCS	12-AUG-99		EDXRF
			CD	14000	ppm	LCS	12-AUG-99		EDXRF
			CR	300	ppm	LCS	12-AUG-99		EDXRF
			CU	14000	ppm	LCS	12-AUG-99		EDXRF
			FE	8.0	%	LCS	12-AUG-99		EDXRF
L991293-020	21-JUL-99	EP93-D	PB	54000	ppm	LCS	12-AUG-99		EDXRF
			SE	660	ppm	LCS	12-AUG-99		EDXRF
			ZN	26000	ppm	LCS	12-AUG-99		EDXRF
			AS	770	ppm	LCS	12-AUG-99		EDXRF
			CD	210	ppm	LCS	12-AUG-99		EDXRF
L991293-021	21-JUL-99	EP93-L	CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	5900	ppm	LCS	12-AUG-99		EDXRF
			FE	2.9	%	LCS	12-AUG-99		EDXRF
			PB	5600	ppm	LCS	12-AUG-99		EDXRF
			SE	100	ppm	LCS	12-AUG-99		EDXRF
L991293-022	21-JUL-99	SS1A11-8-D	ZN	3500	ppm	LCS	12-AUG-99		EDXRF
			AS	27	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	130	ppm	LCS	12-AUG-99		EDXRF
L991293-022	21-JUL-99	SS1A11-8-D	FE	2.6	%	LCS	12-AUG-99		EDXRF
			PB	170	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	120	ppm	LCS	12-AUG-99		EDXRF
			AS	1700	ppm	LCS	12-AUG-99		EDXRF
L991293-022	21-JUL-99	SS1A11-8-D	CD	330	ppm	LCS	12-AUG-99		EDXRF
			CR	170	ppm	LCS	12-AUG-99		EDXRF
			CU	11000	ppm	LCS	12-AUG-99		EDXRF
			FE	3.6	%	LCS	12-AUG-99		EDXRF
			PB	7600	ppm	LCS	12-AUG-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

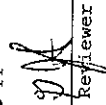
El Paso

Water and Solid Waste (Project 3220)

Batch No: L991293

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE METHOD
L991293-022	21-JUL-99	SS1A11-8-D	SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	6600	ppm	LCS	12-AUG-99	EDXRF
L991293-023	21-JUL-99	SS1A11-8-B	AS	880	ppm	LCS	12-AUG-99	EDXRF
			CD	290	ppm	LCS	12-AUG-99	EDXRF
			CR	150	ppm	LCS	12-AUG-99	EDXRF
			CU	5000	ppm	LCS	12-AUG-99	EDXRF
			FE	3.0	%	LCS	12-AUG-99	EDXRF
			PB	3200	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	3400	ppm	LCS	12-AUG-99	EDXRF
			AS	33	ppm	LCS	12-AUG-99	EDXRF
			CD	<10	ppm	LCS	12-AUG-99	EDXRF
L991293-024	21-JUL-99	EP93-B	CR	180	ppm	LCS	12-AUG-99	EDXRF
			CU	97	ppm	LCS	12-AUG-99	EDXRF
			FE	3.3	%	LCS	12-AUG-99	EDXRF
			PB	74	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	130	ppm	LCS	12-AUG-99	EDXRF
			AS	1700	ppm	LCS	12-AUG-99	EDXRF
			CD	360	ppm	LCS	12-AUG-99	EDXRF
			CR	270	ppm	LCS	12-AUG-99	EDXRF
			CU	10000	ppm	LCS	12-AUG-99	EDXRF
L991293-025	21-JUL-99	SS1A11-8-C	FE	3.6	%	LCS	12-AUG-99	EDXRF
			PB	7200	ppm	LCS	12-AUG-99	EDXRF
			SE	21	ppm	LCS	12-AUG-99	EDXRF
			ZN	6100	ppm	LCS	12-AUG-99	EDXRF
			AS	1700	ppm	LCS	12-AUG-99	EDXRF
			CD	360	ppm	LCS	12-AUG-99	EDXRF

  
Approved

  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991292

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991292-001	20-JUL-99	SS1A11-7-B	AS	15000	ppm	LCS	12-AUG-99		EDXRF
			CD	260	ppm	LCS	12-AUG-99		EDXRF
			CR	110	ppm	LCS	12-AUG-99		EDXRF
			CU	6600	ppm	LCS	12-AUG-99		EDXRF
			FE	2.9	%	LCS	12-AUG-99		EDXRF
			PB	11000	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	5000	ppm	LCS	12-AUG-99		EDXRF
			AS	2500	ppm	LCS	12-AUG-99		EDXRF
			CD	250	ppm	LCS	12-AUG-99		EDXRF
L991292-002	20-JUL-99	SS1A11-7-A	CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	11000	ppm	LCS	12-AUG-99		EDXRF
			FE	4.2	%	LCS	12-AUG-99		EDXRF
			PB	5800	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	5000	ppm	LCS	12-AUG-99		EDXRF
			AS	2500	ppm	LCS	12-AUG-99		EDXRF
			CD	150	ppm	LCS	12-AUG-99		EDXRF
			CR	120	ppm	LCS	12-AUG-99		EDXRF
			CU	11000	ppm	LCS	12-AUG-99		EDXRF
L991292-003	20-JUL-99	SS1A11-7-A2	FE	3.8	%	LCS	12-AUG-99		EDXRF
			PB	5700	ppm	LCS	12-AUG-99		EDXRF
			SE	14	ppm	LCS	12-AUG-99		EDXRF
			ZN	5500	ppm	LCS	12-AUG-99		EDXRF
			AS	2500	ppm	LCS	12-AUG-99		EDXRF
			CD	150	ppm	LCS	12-AUG-99		EDXRF
			CR	120	ppm	LCS	12-AUG-99		EDXRF
			CU	11000	ppm	LCS	12-AUG-99		EDXRF
			FE	3.8	%	LCS	12-AUG-99		EDXRF
			PB	5700	ppm	LCS	12-AUG-99		EDXRF
L991292-004	20-JUL-99	SS1A11-7-C	SE	14	ppm	LCS	12-AUG-99		EDXRF
			ZN	5500	ppm	LCS	12-AUG-99		EDXRF
			AS	720	ppm	LCS	12-AUG-99		EDXRF
			CD	180	ppm	LCS	12-AUG-99		EDXRF
			CR	230	ppm	LCS	12-AUG-99		EDXRF
			CU	4600	ppm	LCS	12-AUG-99		EDXRF
			FE	2.7	%	LCS	12-AUG-99		EDXRF
			PB	3700	ppm	LCS	12-AUG-99		EDXRF
			SE	72	ppm	LCS	12-AUG-99		EDXRF
			ZN	2900	ppm	LCS	12-AUG-99		EDXRF
L991292-005	20-JUL-99	SS1A11-7-D	AS	750	ppm	LCS	12-AUG-99		EDXRF
			CD	170	ppm	LCS	12-AUG-99		EDXRF
			CR	130	ppm	LCS	12-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991292

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991292-005	20-JUL-99	SSIA11-7-D	CU	4800	ppm	LCS	12-AUG-99		EDXRF
			FE	2.6	%	LCS	12-AUG-99		EDXRF
			PB	3600	ppm	LCS	12-AUG-99		EDXRF
			SE	68	ppm	LCS	12-AUG-99		EDXRF
			ZN	2900	ppm	LCS	12-AUG-99		EDXRF
			AS	42	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
L991292-006	20-JUL-99	BH11-1-C	CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	110	ppm	LCS	12-AUG-99		EDXRF
			FE	3.5	%	LCS	12-AUG-99		EDXRF
			PB	90	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	110	ppm	LCS	12-AUG-99		EDXRF
			AS	430	ppm	LCS	12-AUG-99		EDXRF
L991292-007	20-JUL-99	SSIA11-3-E	CD	140	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	8000	ppm	LCS	12-AUG-99		EDXRF
			FE	3.1	%	LCS	12-AUG-99		EDXRF
			PB	4400	ppm	LCS	12-AUG-99		EDXRF
			SE	14	ppm	LCS	12-AUG-99		EDXRF
			ZN	5400	ppm	LCS	12-AUG-99		EDXRF
L991292-008	20-JUL-99	SSIA11-4-E	AS	23	ppm	LCS	12-AUG-99		EDXRF
			CD	11	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	600	ppm	LCS	12-AUG-99		EDXRF
			FE	1.7	%	LCS	12-AUG-99		EDXRF
			PB	850	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
L991292-009	20-JUL-99	SSIA11-5-C	ZN	600	ppm	LCS	12-AUG-99		EDXRF
			AS	23	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	650	ppm	LCS	12-AUG-99		EDXRF
			FE	1.7	%	LCS	12-AUG-99		EDXRF
			PB	750	ppm	LCS	12-AUG-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991292

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991292-009	20-JUL-99	SSIA11-5-C	SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	520	ppm	LCS	12-AUG-99		EDXRF
L991292-010	20-JUL-99	SSIA11-3-A	AS	2200	ppm	LCS	12-AUG-99		EDXRF
			CD	940	ppm	LCS	12-AUG-99		EDXRF
			CR	270	ppm	LCS	12-AUG-99		EDXRF
			CU	29000	ppm	LCS	12-AUG-99		EDXRF
			FE	4.4	%	LCS	12-AUG-99		EDXRF
			PB	14000	ppm	LCS	12-AUG-99		EDXRF
			SE	92	ppm	LCS	12-AUG-99		EDXRF
			ZN	15000	ppm	LCS	12-AUG-99		EDXRF
L991292-011	20-JUL-99	BH11-D	AS	32	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	77	ppm	LCS	12-AUG-99		EDXRF
			FE	3.3	%	LCS	12-AUG-99		EDXRF
			PB	150	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	150	ppm	LCS	12-AUG-99		EDXRF
L991292-012	20-JUL-99	SSIA11-4-D	AS	25	ppm	LCS	12-AUG-99		EDXRF
			CD	20	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	820	ppm	LCS	12-AUG-99		EDXRF
			FE	1.9	%	LCS	12-AUG-99		EDXRF
			PB	1100	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	880	ppm	LCS	12-AUG-99		EDXRF
L991292-013	20-JUL-99	SSIA11-3-C	AS	1700	ppm	LCS	12-AUG-99		EDXRF
			CD	580	ppm	LCS	12-AUG-99		EDXRF
			CR	620	ppm	LCS	12-AUG-99		EDXRF
			CU	18000	ppm	LCS	12-AUG-99		EDXRF
			FE	3.4	%	LCS	12-AUG-99		EDXRF
			PB	11000	ppm	LCS	12-AUG-99		EDXRF
			SE	36	ppm	LCS	12-AUG-99		EDXRF
			ZN	9300	ppm	LCS	12-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991292

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991292-014	20-JUL-99	SSIA11-3-D	AS	1800	ppm	LCS	12-AUG-99		EDXRF
			CD	570	ppm	LCS	12-AUG-99		EDXRF
			CR	2000	ppm	LCS	12-AUG-99		EDXRF
			CU	21000	ppm	LCS	12-AUG-99		EDXRF
			FE	4.4	%	LCS	12-AUG-99		EDXRF
			PB	12000	ppm	LCS	12-AUG-99		EDXRF
			SE	17	ppm	LCS	12-AUG-99		EDXRF
			ZN	11000	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
L991292-015	20-JUL-99	SSIA11-5-A2	CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	140	ppm	LCS	12-AUG-99		EDXRF
			FE	1.5	%	LCS	12-AUG-99		EDXRF
			PB	150	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	72	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	33	ppm	LCS	12-AUG-99		EDXRF
L991292-016	20-JUL-99	BH11-1-K	FE	2.3	%	LCS	12-AUG-99		EDXRF
			PB	49	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	65	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	33	ppm	LCS	12-AUG-99		EDXRF
			FE	2.3	%	LCS	12-AUG-99		EDXRF
			PB	49	ppm	LCS	12-AUG-99		EDXRF
L991292-017	20-JUL-99	SSIA11-6-E	SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	65	ppm	LCS	12-AUG-99		EDXRF
			AS	14000	ppm	LCS	12-AUG-99		EDXRF
			CD	1400	ppm	LCS	12-AUG-99		EDXRF
			CR	170	ppm	LCS	12-AUG-99		EDXRF
			CU	37000	ppm	LCS	12-AUG-99		EDXRF
			FE	3.8	%	LCS	12-AUG-99		EDXRF
			PB	21000	ppm	LCS	12-AUG-99		EDXRF
			SE	110	ppm	LCS	12-AUG-99		EDXRF
			ZN	14000	ppm	LCS	12-AUG-99		EDXRF
L991292-018	20-JUL-99	BH11-1-L	AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			ZN	<80	ppm	LCS	12-AUG-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER

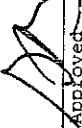
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991292

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991292-018	20-JUL-99	BH11-1-L	CU	47	ppm	LCS	12-AUG-99		EDXRF
			FE	2.3	%	LCS	12-AUG-99		EDXRF
			PB	54	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	43	ppm	LCS	12-AUG-99		EDXRF
L991292-019	20-JUL-99	BH11-1-O	AS	31	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	37	ppm	LCS	12-AUG-99		EDXRF
			FE	2.8	%	LCS	12-AUG-99		EDXRF
L991292-020	20-JUL-99	BH11-1-N	PB	37	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	58	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	188	ppm	LCS	12-AUG-99		EDXRF
			CU	32	ppm	LCS	12-AUG-99		EDXRF
			FE	2.0	%	LCS	12-AUG-99		EDXRF
			PB	49	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	30	ppm	LCS	12-AUG-99		EDXRF

  
Approved

  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991291

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991291-001	19-JUL-99	SS1A11-1B	AS	33	ppm	LCS	12-AUG-99		EDXRF
			CD	16	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	740	ppm	LCS	12-AUG-99		EDXRF
			FE	1.7	%	LCS	12-AUG-99		EDXRF
			PB	520	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	340	ppm	LCS	12-AUG-99		EDXRF
L991291-002	19-JUL-99	SS1A11-2A	AS	82	ppm	LCS	12-AUG-99		EDXRF
			CD	25	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	1500	ppm	LCS	12-AUG-99		EDXRF
			FE	2.5	%	LCS	12-AUG-99		EDXRF
			PB	1100	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	770	ppm	LCS	12-AUG-99		EDXRF
L991291-003	19-JUL-99	SS1A11-1A	AS	170	ppm	LCS	12-AUG-99		EDXRF
			CD	50	ppm	LCS	12-AUG-99		EDXRF
			CR	160	ppm	LCS	12-AUG-99		EDXRF
			CU	2900	ppm	LCS	12-AUG-99		EDXRF
			FE	3.4	%	LCS	12-AUG-99		EDXRF
			PB	1500	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	1400	ppm	LCS	12-AUG-99		EDXRF
L991291-004	19-JUL-99	BH11-1B	AS	340	ppm	LCS	12-AUG-99		EDXRF
			CD	120	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	1900	ppm	LCS	12-AUG-99		EDXRF
			FE	2.7	%	LCS	12-AUG-99		EDXRF
			PB	3300	ppm	LCS	12-AUG-99		EDXRF
			SE	33	ppm	LCS	12-AUG-99		EDXRF
			ZN	1400	ppm	LCS	12-AUG-99		EDXRF
L991291-005	19-JUL-99	BH11-1A	AS	210	ppm	LCS	12-AUG-99		EDXRF
			CD	36	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991291

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991291-005	19-JUL-99	BH11-1A	CU	1700	ppm	LCS	12-AUG-99		EDXRF
			FE	3.9	%	LCS	12-AUG-99		EDXRF
			PB	660	ppm	LCS	12-AUG-99		EDXRF
			SE	11	ppm	LCS	12-AUG-99		EDXRF
			ZN	1600	ppm	LCS	12-AUG-99		EDXRF
L991291-006	20-JUL-99	BH-11-F	AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	130	ppm	LCS	12-AUG-99		EDXRF
			CU	30	ppm	LCS	12-AUG-99		EDXRF
			FE	2.0	%	LCS	12-AUG-99		EDXRF
L991291-007	20-JUL-99	BH11-1-A	PB	59	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	21	ppm	LCS	12-AUG-99		EDXRF
			AS	500	ppm	LCS	12-AUG-99		EDXRF
			CD	180	ppm	LCS	12-AUG-99		EDXRF
L991291-008	20-JUL-99	SS1A11-7-E	CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	1900	ppm	LCS	12-AUG-99		EDXRF
			FE	2.3	%	LCS	12-AUG-99		EDXRF
			PB	5100	ppm	LCS	12-AUG-99		EDXRF
			SE	61	ppm	LCS	12-AUG-99		EDXRF
L991291-009	20-JUL-99	SS1A11-7-E	ZN	1000	ppm	LCS	12-AUG-99		EDXRF
			AS	2800	ppm	LCS	12-AUG-99		EDXRF
			CD	240	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	6400	ppm	LCS	12-AUG-99		EDXRF
L991291-009	20-JUL-99	SS1A11-4-A	FE	3.0	%	LCS	12-AUG-99		EDXRF
			PB	6500	ppm	LCS	12-AUG-99		EDXRF
			SE	31	ppm	LCS	12-AUG-99		EDXRF
			ZN	4000	ppm	LCS	12-AUG-99		EDXRF
			AS	790	ppm	LCS	12-AUG-99		EDXRF
L991291-009	20-JUL-99	SS1A11-4-A	CD	300	ppm	LCS	12-AUG-99		EDXRF
			CR	92	ppm	LCS	12-AUG-99		EDXRF
			CU	11000	ppm	LCS	12-AUG-99		EDXRF
			FE	3.9	%	LCS	12-AUG-99		EDXRF
			PB	11000	ppm	LCS	12-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991291

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991291-009	20-JUL-99	SS1A11-4-A	SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	11000	ppm	LCS	12-AUG-99	EDXRF
L991291-010	20-JUL-99	BH11-1-H	AS	<20	ppm	LCS	12-AUG-99	EDXRF
			CD	<10	ppm	LCS	12-AUG-99	EDXRF
			CR	<80	ppm	LCS	12-AUG-99	EDXRF
			CU	<20	ppm	LCS	12-AUG-99	EDXRF
			FE	2.7	%	LCS	12-AUG-99	EDXRF
			PB	31	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	69	ppm	LCS	12-AUG-99	EDXRF
L991291-011	20-JUL-99	BH11-1-G	AS	<20	ppm	LCS	12-AUG-99	EDXRF
			CD	<10	ppm	LCS	12-AUG-99	EDXRF
			CR	<80	ppm	LCS	12-AUG-99	EDXRF
			CU	24	ppm	LCS	12-AUG-99	EDXRF
			FE	2.0	%	LCS	12-AUG-99	EDXRF
			PB	49	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	41	ppm	LCS	12-AUG-99	EDXRF
L991291-012	20-JUL-99	SS1A11-4-C	AS	52	ppm	LCS	12-AUG-99	EDXRF
			CD	21	ppm	LCS	12-AUG-99	EDXRF
			CR	<80	ppm	LCS	12-AUG-99	EDXRF
			CU	890	ppm	LCS	12-AUG-99	EDXRF
			FE	2.5	%	LCS	12-AUG-99	EDXRF
			PB	1200	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	820	ppm	LCS	12-AUG-99	EDXRF
L991291-013	20-JUL-99	SS1A11-4-B	AS	160	ppm	LCS	12-AUG-99	EDXRF
			CD	70	ppm	LCS	12-AUG-99	EDXRF
			CR	240	ppm	LCS	12-AUG-99	EDXRF
			CU	2400	ppm	LCS	12-AUG-99	EDXRF
			FE	2.4	%	LCS	12-AUG-99	EDXRF
			PB	3100	ppm	LCS	12-AUG-99	EDXRF
			SE	<10	ppm	LCS	12-AUG-99	EDXRF
			ZN	2400	ppm	LCS	12-AUG-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991291

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	DATE	HOLD
L991291-014	20-JUL-99	SS1A11-5-A	AS	<20	ppm	LCS	12-AUG-99	EDXRF	
			CD	<10	ppm	LCS	12-AUG-99	EDXRF	
			CR	140	ppm	LCS	12-AUG-99	EDXRF	
			CU	140	ppm	LCS	12-AUG-99	EDXRF	
			FE	1.4	%	LCS	12-AUG-99	EDXRF	
			PB	150	ppm	LCS	12-AUG-99	EDXRF	
			SE	<10	ppm	LCS	12-AUG-99	EDXRF	
			ZN	92	ppm	LCS	12-AUG-99	EDXRF	
L991291-015	20-JUL-99	BH11-1-B	AS	27	ppm	LCS	12-AUG-99	EDXRF	
			CD	14	ppm	LCS	12-AUG-99	EDXRF	
			CR	<80	ppm	LCS	12-AUG-99	EDXRF	
			CU	110	ppm	LCS	12-AUG-99	EDXRF	
			FE	2.1	%	LCS	12-AUG-99	EDXRF	
			PB	160	ppm	LCS	12-AUG-99	EDXRF	
			SE	<10	ppm	LCS	12-AUG-99	EDXRF	
			ZN	270	ppm	LCS	12-AUG-99	EDXRF	
L991291-016	20-JUL-99	BH11-1-J2	AS	<20	ppm	LCS	12-AUG-99	EDXRF	
			CD	<10	ppm	LCS	12-AUG-99	EDXRF	
			CR	<80	ppm	LCS	12-AUG-99	EDXRF	
			CU	<20	ppm	LCS	12-AUG-99	EDXRF	
			FE	2.7	%	LCS	12-AUG-99	EDXRF	
			PB	41	ppm	LCS	12-AUG-99	EDXRF	
			SE	<10	ppm	LCS	12-AUG-99	EDXRF	
			ZN	64	ppm	LCS	12-AUG-99	EDXRF	
L991291-017	20-JUL-99	BH11-1-E	AS	<20	ppm	LCS	12-AUG-99	EDXRF	
			CD	<10	ppm	LCS	12-AUG-99	EDXRF	
			CR	100	ppm	LCS	12-AUG-99	EDXRF	
			CU	<20	ppm	LCS	12-AUG-99	EDXRF	
			FE	1.5	%	LCS	12-AUG-99	EDXRF	
			PB	49	ppm	LCS	12-AUG-99	EDXRF	
			SE	<10	ppm	LCS	12-AUG-99	EDXRF	
			ZN	51	ppm	LCS	12-AUG-99	EDXRF	
L991291-018	20-JUL-99	SS1A11-5-E	AS	44	ppm	LCS	12-AUG-99	EDXRF	
			CD	31	ppm	LCS	12-AUG-99	EDXRF	
			CR	<80	ppm	LCS	12-AUG-99	EDXRF	

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991291

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L991291-018	20-JUL-99	SS1A11-5-E	CU	990	ppm	LCS	12-AUG-99		EDXRF
			FE	1.6	%	LCS	12-AUG-99		EDXRF
			PB	1200	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	880	ppm	LCS	12-AUG-99		EDXRF
			AS	25	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	84	ppm	LCS	12-AUG-99		EDXRF
			CU	<20	ppm	LCS	12-AUG-99		EDXRF
			FE	2.7	%	LCS	12-AUG-99		EDXRF
			PB	11	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	56	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	12	ppm	LCS	12-AUG-99		EDXRF
			FE	2.1	%	LCS	12-AUG-99		EDXRF
			PB	27	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	57	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	12	ppm	LCS	12-AUG-99		EDXRF
			FE	2.1	%	LCS	12-AUG-99		EDXRF
			PB	27	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	57	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF
			CU	12	ppm	LCS	12-AUG-99		EDXRF
			FE	2.1	%	LCS	12-AUG-99		EDXRF
			PB	27	ppm	LCS	12-AUG-99		EDXRF
			SE	<10	ppm	LCS	12-AUG-99		EDXRF
			ZN	57	ppm	LCS	12-AUG-99		EDXRF
			AS	<20	ppm	LCS	12-AUG-99		EDXRF
			CD	<10	ppm	LCS	12-AUG-99		EDXRF
			CR	<80	ppm	LCS	12-AUG-99		EDXRF

Approved  
Reviewer



# CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		SAMPLE NUMBER		ANALYSIS										REMARKS
DATE	TIME	COMP	GRAB	DATE	TIME	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTX	TPH	XR F (As, Cd, Cr, Cu, Fe, Pb, Zn, SO <sub>4</sub> )		
1035	ASARCO EL PASO, TX	1		1												
SAMPLERS: (Signature) <i>[Signature]</i>																
7/24/99	12:20		16													
	15:50		17													
	13:03		18													
	14:25		19													
	14:01		20													
	14:03		1													
	14:15		2													
	13:30		3													
	15:42		4													
	15:41		5													
	15:46		6													
	15:49		7													
7/24/99	11:12		8													
	10:56		9													
	10:28		10													
Relinquished (Signature) <i>[Signature]</i>						Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS				
Relinquished (Signature) <i>[Signature]</i>						Received by: (Signature)		TSC - Salt Lake				Other				
Relinquished (Signature)						Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other						
Relinquished (Signature)						Received by: (Signature)		Date/Time		7.22.99 12:45						
Return results & electronic copy to: Computer Name at address at top of page																

## 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	COMPL.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTX	TPH	
1035	ASARCO - El Paso, TX												
SAMPLERS: (Signature) <i>[Signature]</i>													
7/21/99	1009		11	EP93-G7									
	1055		12	EP93-J									
	0830		13	SSIA11-8-E									
	1038		14	EP93-I									
	0930		15	EP-93-A									
	0817		16	SSIA11-8-A									
	11:25		17	EP93-L									
	0958		18	EP93-F									
	0943		19	EP93-E									
	0940		20	EP93-D									
	0936		21	EP93-C									
	0829		22	SSIA11-8-D									
	0820		23	SSIA11-8-B									
	0933		24	EP93-B									
	0825		25	SSIA11-8-C									
Relinquished (Signature) <i>[Signature]</i>			Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		
Relinquished (Signature) <i>[Signature]</i>			Date/Time		Received by: (Signature)		Remarks		TS Salt Lake		Other		
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:		Split Samples:		
									<input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other		<input type="checkbox"/> Accepted <input type="checkbox"/> Declined		

# 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	COM.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF/As, Pb, Cu, Fe		
1035	ASARCO - EL PASO, TX														
SAMPLERS: (Signature) <i>Hold Kutz</i>															
7/19/98	1430			SSIA11-1B									X		
	1510			SSIA11-2A									X		
	1420			SSIA11-1A									X		
	1340			BH11-1B									X		
	1330			BH11-1A									X		
[Large diagonal line across the table]															
Relinquished (Signature) <i>[Signature]</i>					Received by: (Signature)					Lab		P.O. #		Shipped via: <input checked="" type="checkbox"/> Bus, Fed Ex, UPS <input type="checkbox"/> Other	
Relinquished (Signature) <i>[Signature]</i>					Received by: (Signature)					Remarks		Air Bill #			
Relinquished (Signature)					Received for Laboratory by: (Signature) <i>[Signature]</i>					Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other			
										7-22-98 12:45					

Return results & electronic copy to:

Split Samples:  
☐ Accepted ☐ Declined

HF0RM-1-

Computer Print of address at time of issue

# HYDROMETRICS, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME	SAMPLERS: (Signature)		DATE	TIME	COMF.	GRAB	SAMPLE NUMBER	NO. OF CON-TAINERS	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRPF (K, Cd, Cr, Cu, Fe, Pb, Zn, Ni)	REMARKS
1635	ASARCO - El Paso, TX			7/20/99	10:20			BH-11-F	1 BAG										
					10:00			BH-11-A											
					16:30			SSIA11-7-E											
					9:00			SSIA11-4-A											
					10:50			BH11-1-H											
					10:35			BH11-1-G											
					9:10			SSIA11-4-C											
					9:05			SSIA11-4-B											
					9:20			SSIA11-5-A											
					10:03			BH11-1-B											
					11:50			BH11-1-S2											
					10:12			BH11-1-E											
					9:45			SSIA11-5-E											
					11:45			BH11-1-J											
					14:48			BH11-1-P											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		Air Bill #			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks											
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined											



# ASARCO

August 20, 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

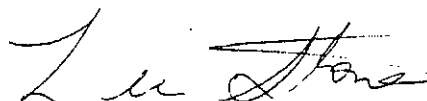
Please find attached the X-ray results for your El Paso soil samples collected from the 21<sup>st</sup> to the 29<sup>th</sup> of July. Also attached are the X-ray QC results.

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

RECEIVED

AUG 31 1999

HYDROMETRICS, INC.



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



# L991353

CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As	% REC		Pb	% REC
620	89		7931	98
656	94		8043	100
668	95		8025	100

LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As	% REC		Pb	% REC
975	106		225	95
943	103		216	92

DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991353-20	<10	<10	BDL	20	22	10
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	<20	<20	BDL	1.6	1.6	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	23	30	26

LAB#

L991353-29

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	293	289	1
Cd	Cd		Cr	Cr	
<10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
334	331	1	1.7	1.6	6
Se	Se		Zn	Zn	
<10	<10	BDL	154	153	1

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991353

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991353-002	26-JUL-99	EP-94J	AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	88	ppm	LCS	20-AUG-99		EDXRF
			FE	2.1	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	47	ppm	LCS	20-AUG-99		EDXRF
L991353-003	26-JUL-99	EP-94M	AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	26	ppm	LCS	20-AUG-99		EDXRF
			FE	1.2	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	<10	ppm	LCS	20-AUG-99		EDXRF
L991353-004	26-JUL-99	EP-94H	AS	130	ppm	LCS	20-AUG-99		EDXRF
			CD	85	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	2000	ppm	LCS	20-AUG-99		EDXRF
			FE	2.2	%	LCS	20-AUG-99		EDXRF
			PB	1200	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	990	ppm	LCS	20-AUG-99		EDXRF
L991353-005	26-JUL-99	EP-94A	AS	760	ppm	LCS	20-AUG-99		EDXRF
			CD	560	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	4800	ppm	LCS	20-AUG-99		EDXRF
			FE	2.6	%	LCS	20-AUG-99		EDXRF
			PB	5600	ppm	LCS	20-AUG-99		EDXRF
			SE	59	ppm	LCS	20-AUG-99		EDXRF
			ZN	3500	ppm	LCS	20-AUG-99		EDXRF
L991353-006	26-JUL-99	EP-94C	AS	620	ppm	LCS	20-AUG-99		EDXRF
			CD	180	ppm	LCS	20-AUG-99		EDXRF
			CR	93	ppm	LCS	20-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991353

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991353-006	26-JUL-99	EP-94C	CU	8900	ppm	LCS	20-AUG-99		EDXRF
			FE	3.6	%	LCS	20-AUG-99		EDXRF
			PB	5200	ppm	LCS	20-AUG-99		EDXRF
			SE	35	ppm	LCS	20-AUG-99		EDXRF
			ZN	3300	ppm	LCS	20-AUG-99		EDXRF
			AS	1300	ppm	LCS	20-AUG-99		EDXRF
			CD	700	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	6700	ppm	LCS	20-AUG-99		EDXRF
			FE	3.3	%	LCS	20-AUG-99		EDXRF
			PB	8000	ppm	LCS	20-AUG-99		EDXRF
			SE	61	ppm	LCS	20-AUG-99		EDXRF
			ZN	5200	ppm	LCS	20-AUG-99		EDXRF
			AS	36	ppm	LCS	20-AUG-99		EDXRF
			CD	17	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	1900	ppm	LCS	20-AUG-99		EDXRF
			FE	1.5	%	LCS	20-AUG-99		EDXRF
			PB	580	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	370	ppm	LCS	20-AUG-99		EDXRF
			AS	680	ppm	LCS	20-AUG-99		EDXRF
			CD	170	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	150000	ppm	LCS	20-AUG-99		EDXRF
			FE	6.5	%	LCS	20-AUG-99		EDXRF
			PB	3400	ppm	LCS	20-AUG-99		EDXRF
			SE	34	ppm	LCS	20-AUG-99		EDXRF
			ZN	2900	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	150	ppm	LCS	20-AUG-99		EDXRF
			FE	1.1	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	150	ppm	LCS	20-AUG-99		EDXRF
			FE	1.1	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991353

LAR NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	TEST METHOD
L991353-010	26-JUL-99	EP-94N	SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	29	ppm	LCS	20-AUG-99		EDXRF
			AS	27	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
L991353-011	26-JUL-99	EP-94K	CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	54	ppm	LCS	20-AUG-99		EDXRF
			FE	3.2	%	LCS	20-AUG-99		EDXRF
			PB	40	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	33	ppm	LCS	20-AUG-99		EDXRF
			AS	990	ppm	LCS	20-AUG-99		EDXRF
			CD	180	ppm	LCS	20-AUG-99		EDXRF
L991353-012	26-JUL-99	EP-94B	CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	3500	ppm	LCS	20-AUG-99		EDXRF
			FE	2.7	%	LCS	20-AUG-99		EDXRF
			PB	8000	ppm	LCS	20-AUG-99		EDXRF
			SE	91	ppm	LCS	20-AUG-99		EDXRF
			ZN	2400	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
L991353-013	26-JUL-99	EP-94O	CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	49	ppm	LCS	20-AUG-99		EDXRF
			FE	1.8	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	12	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
L991353-014	26-JUL-99	EP-94L	CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	72	ppm	LCS	20-AUG-99		EDXRF
			FE	1.2	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			SE	12	ppm	LCS	20-AUG-99		EDXRF
			ZN	20	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991353

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991353-015	21-JUL-99	EP-93N	AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	21	ppm	LCS	20-AUG-99		EDXRF
			FE	2.4	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	34	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
L991353-016	21-JUL-99	EP-93M	CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	<20	ppm	LCS	20-AUG-99		EDXRF
			FE	2.4	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	36	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	230	ppm	LCS	20-AUG-99		EDXRF
L991353-017	28-JUL-99	EP-95-A	FE	2.0	%	LCS	20-AUG-99		EDXRF
			PB	190	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	140	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	230	ppm	LCS	20-AUG-99		EDXRF
			FE	2.0	%	LCS	20-AUG-99		EDXRF
			PB	190	ppm	LCS	20-AUG-99		EDXRF
L991353-018	28-JUL-99	EP-95-B	SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	140	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	75	ppm	LCS	20-AUG-99		EDXRF
			FE	2.2	%	LCS	20-AUG-99		EDXRF
			PB	120	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	94	ppm	LCS	20-AUG-99		EDXRF
L991353-019	28-JUL-99	EP-95C	AS	13	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	<80	ppm	LCS	20-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991353

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOLD DAYS	MOLD METHOD
L991353-019	28-JUL-99	EP-95C	CU	160	ppm	LCS	20-AUG-99		EDXRF
			FE	2.2	%	LCS	20-AUG-99		EDXRF
			PB	150	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	110	ppm	LCS	20-AUG-99		EDXRF
L991353-020	28-JUL-99	EP-95D	AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	<20	ppm	LCS	20-AUG-99		EDXRF
			FE	1.6	%	LCS	20-AUG-99		EDXRF
			PB	21	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	24	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
L991353-021	28-JUL-99	EP-95D2	AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	<20	ppm	LCS	20-AUG-99		EDXRF
			FE	1.5	%	LCS	20-AUG-99		EDXRF
			PB	30	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	30	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
L991353-022	28-JUL-99	EP-95-E	AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	<10	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	50	ppm	LCS	20-AUG-99		EDXRF
			FE	1.4	%	LCS	20-AUG-99		EDXRF
			PB	<10	ppm	LCS	20-AUG-99		EDXRF
			SE	<10	ppm	LCS	20-AUG-99		EDXRF
			ZN	22	ppm	LCS	20-AUG-99		EDXRF
			AS	<10	ppm	LCS	20-AUG-99		EDXRF
			CD	50	ppm	LCS	20-AUG-99		EDXRF
L991353-023	28-JUL-99	EP-96-A	AS	380	ppm	LCS	20-AUG-99		EDXRF
			CD	50	ppm	LCS	20-AUG-99		EDXRF
			CR	<80	ppm	LCS	20-AUG-99		EDXRF
			CU	2500	ppm	LCS	20-AUG-99		EDXRF
			FE	8.9	%	LCS	20-AUG-99		EDXRF
			PB	2900	ppm	LCS	20-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991353

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOID
L991353-023	28-JUL-99	EP-96-A	SE	<10	ppm	LCS	20-AUG-99	EDXRF
			ZN	6400	ppm	LCS	20-AUG-99	EDXRF
L991353-024	28-JUL-99	EP-96-B	AS	180	ppm	LCS	20-AUG-99	EDXRF
			CD	18	ppm	LCS	20-AUG-99	EDXRF
			CR	<80	ppm	LCS	20-AUG-99	EDXRF
			CU	940	ppm	LCS	20-AUG-99	EDXRF
			FE	2.3	%	LCS	20-AUG-99	EDXRF
			PB	660	ppm	LCS	20-AUG-99	EDXRF
			SE	<10	ppm	LCS	20-AUG-99	EDXRF
			ZN	360	ppm	LCS	20-AUG-99	EDXRF
L991353-025	26-JUL-99	EP-94I	AS	<10	ppm	LCS	20-AUG-99	EDXRF
			CD	<10	ppm	LCS	20-AUG-99	EDXRF
			CR	<80	ppm	LCS	20-AUG-99	EDXRF
			CU	28	ppm	LCS	20-AUG-99	EDXRF
			FE	2.2	%	LCS	20-AUG-99	EDXRF
			PB	40	ppm	LCS	20-AUG-99	EDXRF
			SE	<10	ppm	LCS	20-AUG-99	EDXRF
			ZN	33	ppm	LCS	20-AUG-99	EDXRF
L991353-026	19-JUL-99	SSIA11-2B	AS	12	ppm	LCS	20-AUG-99	EDXRF
			CD	<10	ppm	LCS	20-AUG-99	EDXRF
			CR	<80	ppm	LCS	20-AUG-99	EDXRF
			CU	170	ppm	LCS	20-AUG-99	EDXRF
			FE	1.9	%	LCS	20-AUG-99	EDXRF
			PB	150	ppm	LCS	20-AUG-99	EDXRF
			SE	<10	ppm	LCS	20-AUG-99	EDXRF
			ZN	110	ppm	LCS	20-AUG-99	EDXRF
L991353-029	19-JUL-99	SSIA11-1C	AS	<10	ppm	LCS	20-AUG-99	EDXRF
			CD	<10	ppm	LCS	20-AUG-99	EDXRF
			CR	<80	ppm	LCS	20-AUG-99	EDXRF
			CU	330	ppm	LCS	20-AUG-99	EDXRF
			FE	1.7	%	LCS	20-AUG-99	EDXRF
			PB	290	ppm	LCS	20-AUG-99	EDXRF
			SE	<10	ppm	LCS	20-AUG-99	EDXRF
			ZN	150	ppm	LCS	20-AUG-99	EDXRF

ASARCO TECHNICAL SERVICES CENTER


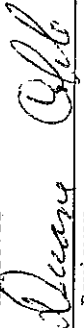
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991353

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

  
 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 <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Se)		
1035	ASARCOS, EL PASO, TX														
SAMPLERS: (Signature)															
LAIRY JOHNSON															
7/24/97	1201			EP-94J									X		
	1445			EP-94M									X		
	1120			EP-94H									X		
	945			EP-94A									X		
	1010			EP-94C									X		
	946			EP-94A2									X		
	1025			EP-94F									X		
	1015			EP-94E									X		
	1510			EP-94N									X		
	1220			EP-94K									X		
	1005			EP-94B									X		
	1535			EP-94O									X		
	1415			EP-94L									X		
7/24/97	1315			EP-93N									X		
	1300			EP-93M									X		
Relinquished (Signature)					Received by: (Signature)					Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS Other	
7/24/97 08:30					7/24/97 08:30					TSC-SALT LAKE					
Relinquished (Signature)					Received by: (Signature)					Remarks					
7/24/97 08:30					7/24/97 08:30					PLEASE FAX RESULTS TO HAROLD KUTZ (915) 532-4897					
Relinquished (Signature)					Received for Laboratory by: (Signature)					Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other			
7/24/97 08:30					7/24/97 08:30					73099 1030					
Relinquished (Signature)					Received by: (Signature)					Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined					



Правда, правда, правда,

PROJECT NAME					
PROJ. NO.		SAMPLE NUMBER	DATE	TIME	COMP.
1035	ASARCO				
SAMPLERS: (Signature)					
WALLY WILSON					
NO. OF CONTAINERS					
Commons UF/RAW					
Nutrients UF/H <sub>2</sub> SO <sub>4</sub>					
Diss. Metal F/HNO <sub>3</sub>					
CN UF/NaOH					
Total Metals UF/HNO <sub>3</sub>					
Total Recoverable Metals UF/HNO <sub>3</sub>					
BTX					
TPH					
XRF (As, Cd, Cr, Cu, Fe, Pb, Se, Zn)					
REMARKS					

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, (Fed Ex) UPS Other Air Bill #
7/28/99 1000	EP-95-A	1 BAG		X	
1005	EP-95-B	1 BAG		X	
1010	EP-95-C	1 BAG		X	
1015	EP-95-D	1 BAG		X	
1018	EP-95-D2	1 BAG		X	
1020	EP-95-E	1 BAG		X	
1300	EP-96-A	1 BAG		X	
1305	EP-96-B	1 BAG		X	
TSC - SALT LAKE					
Remarks					
PLEASE FAX RESULTS TO HAROLD KUTZ					
Date/Time 73099 1030					
Enclosed: <input type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other					
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined					

HF0RM-1-1

Return results & electronic copy to:

(915) 532-4897

Signature

# ENVIRONMENTAL, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS									
1035		ASARCO - EL PASO, TX		1 BAG		Fe, Pb, Zn, Se									
SAMPLERS: (Signature)		LAIRY JOHNSON		1 BAG		XRF (As, Cd, Cr, Cu)									
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	1 BAG	TPH									
2/26/99	1140			EP-94 I	1 BAG	BTX									
2/17/99	1518			SSIA 11-2 B	1 BAG	Total Recoverable Metals UF/HNO <sub>3</sub>									
↓	1440			SSIA 11-1 C	1 BAG	Total Metals UF/HNO <sub>3</sub>									
						CN UF/NaOH									
						Diss. Metal F/HNO <sub>3</sub>									
						Nutrients UF/H <sub>2</sub> SO <sub>4</sub>									
						Commons UF/RAW									
						Lab									
						TSC - Salt Lake									
						Remarks									
						PLEASE FAX RESULTS TO HAROLD KUTZ (915) 532-4897									
						Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits									
						<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter									
						<input type="checkbox"/> Other									
						Date/Time									
						730991030									
						Split Samples:									
						<input type="checkbox"/> Accepted <input type="checkbox"/> Declined									
						Sonak									



# ASARCO

September 2, 1999

RECEIVED

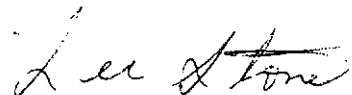
SEP 15 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

HYDROMETRICS, INC.

Please find attached the X-ray results for your El Paso Soil samples collected from the 4<sup>th</sup> to the 11<sup>th</sup> of August. Also attached are the X-ray QC results.

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



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)

RECEIVED

SEP 15 1999

HYDROMETRICS, INC.



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991413

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991413-001	04-AUG-99	SSIA11-10D	AS	10	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	<20	ppm	LCS	27-AUG-99	EDXRF
			FE	1.9	%	LCS	27-AUG-99	EDXRF
			PB	<10	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	45	ppm	LCS	27-AUG-99	EDXRF
			AS	23	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
L991413-002	04-AUG-99	SSIA11-10B	CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	140	ppm	LCS	27-AUG-99	EDXRF
			FE	2.1	%	LCS	27-AUG-99	EDXRF
			PB	150	ppm	LCS	27-AUG-99	EDXRF
			SE	19	ppm	LCS	27-AUG-99	EDXRF
			ZN	110	ppm	LCS	27-AUG-99	EDXRF
			AS	160	ppm	LCS	27-AUG-99	EDXRF
			CD	12	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	980	ppm	LCS	27-AUG-99	EDXRF
L991413-003	04-AUG-99	SSIA11-10A	FE	4.4	%	LCS	27-AUG-99	EDXRF
			PB	730	ppm	LCS	27-AUG-99	EDXRF
			SE	21	ppm	LCS	27-AUG-99	EDXRF
			ZN	2200	ppm	LCS	27-AUG-99	EDXRF
			AS	17	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	<20	ppm	LCS	27-AUG-99	EDXRF
			FE	2.7	%	LCS	27-AUG-99	EDXRF
			PB	11	ppm	LCS	27-AUG-99	EDXRF
L991413-004	04-AUG-99	SSIA11-11C	SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	58	ppm	LCS	27-AUG-99	EDXRF
			AS	65	ppm	LCS	27-AUG-99	EDXRF
			CD	22	ppm	LCS	27-AUG-99	EDXRF
			CR	100	ppm	LCS	27-AUG-99	EDXRF
			AS	17	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	<20	ppm	LCS	27-AUG-99	EDXRF
			FE	2.7	%	LCS	27-AUG-99	EDXRF
L991413-005	04-AUG-99	SSIA11-11A	PB	11	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	58	ppm	LCS	27-AUG-99	EDXRF
			AS	65	ppm	LCS	27-AUG-99	EDXRF
			CD	22	ppm	LCS	27-AUG-99	EDXRF
			CR	100	ppm	LCS	27-AUG-99	EDXRF
			AS	17	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	<20	ppm	LCS	27-AUG-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991413

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991413-005	04-AUG-99	SS1A11-11A	CU	640	ppm	LCS	27-AUG-99		EDXRF
			FE	3.4	%	LCS	27-AUG-99		EDXRF
			PB	450	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	740	ppm	LCS	27-AUG-99		EDXRF
L991413-006	04-AUG-99	SS1A11-11E	AS	11	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	2.6	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	54	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
L991413-007	04-AUG-99	SS1A11-11D	CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	40	ppm	LCS	27-AUG-99		EDXRF
			FE	1.9	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	12	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	40	ppm	LCS	27-AUG-99		EDXRF
L991413-008	04-AUG-99	SS1A11-11B	FE	1.9	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	12	ppm	LCS	27-AUG-99		EDXRF
			AS	42	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	270	ppm	LCS	27-AUG-99		EDXRF
			FE	3.2	%	LCS	27-AUG-99		EDXRF
			PB	180	ppm	LCS	27-AUG-99		EDXRF
L991413-009	04-AUG-99	BH11-2H	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	510	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	27	ppm	LCS	27-AUG-99		EDXRF
			FE	2.1	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991413

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991413 009	04-AUG-99	BH11-2H	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	34	ppm	LCS	27-AUG-99		EDXRF
L991413-010	04-AUG-99	BH11-2-F	AS	17	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	28	ppm	LCS	27-AUG-99		EDXRF
			FE	2.4	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	20	ppm	LCS	27-AUG-99		EDXRF
L991413-011	05-AUG-99	BH11-2-L	AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.8	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	15	ppm	LCS	27-AUG-99		EDXRF
L991413-012	05-AUG-99	BH11-2-J	AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	2.4	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	22	ppm	LCS	27-AUG-99		EDXRF
L991413-013	05-AUG-99	BH11-2-K	AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.5	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	15	ppm	LCS	27-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991413

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991413-014	05-AUG-99	BH11-2-K-1	AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	24	ppm	LCS	27-AUG-99		EDXRF
			FE	1.5	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	47	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
L991413-015	05-AUG-99	BH11-2-I	CU	39	ppm	LCS	27-AUG-99		EDXRF
			FE	1.5	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	<10	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.5	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
L991413-016	04-AUG-99	BH11-2-G	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	16	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.5	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	16	ppm	LCS	27-AUG-99		EDXRF
			AS	55	ppm	LCS	27-AUG-99		EDXRF
L991413-017	05-AUG-99	BH11-3-F	CD	17	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	830	ppm	LCS	27-AUG-99		EDXRF
			FE	3.3	%	LCS	27-AUG-99		EDXRF
			PB	1000	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	520	ppm	LCS	27-AUG-99		EDXRF
			AS	46	ppm	LCS	27-AUG-99		EDXRF
			CD	20	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			AS	46	ppm	LCS	27-AUG-99		EDXRF
L991413-018	04-AUG-99	EP97-B	CD	20	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			AS	46	ppm	LCS	27-AUG-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991413

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991413-018	04-AUG-99	EP97-B	CU	640	ppm	LCS	27-AUG-99		EDXRF
			FE	3.2	%	LCS	27-AUG-99		EDXRF
			PB	340	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	450	ppm	LCS	27-AUG-99		EDXRF
			AS	71	ppm	LCS	27-AUG-99		EDXRF
			CD	16	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	800	ppm	LCS	27-AUG-99		EDXRF
			FE	3.0	%	LCS	27-AUG-99		EDXRF
			PB	500	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	470	ppm	LCS	27-AUG-99		EDXRF
			AS	64	ppm	LCS	27-AUG-99		EDXRF
			CD	19	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	690	ppm	LCS	27-AUG-99		EDXRF
			FE	3.3	%	LCS	27-AUG-99		EDXRF
			PB	340	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	470	ppm	LCS	27-AUG-99		EDXRF
			AS	62	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	730	ppm	LCS	27-AUG-99		EDXRF
			FE	3.3	%	LCS	27-AUG-99		EDXRF
			PB	380	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	530	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.4	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.4	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991413

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	DATA METHOD
L991413-022	06-AUG-99	EP98-H	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	28	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
L991413-023	06-AUG-99	EP98-G	CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.3	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	14	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	41	ppm	LCS	27-AUG-99		EDXRF
L991413-024	06-AUG-99	EP98-F	FE	0.8	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	<10	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	41	ppm	LCS	27-AUG-99		EDXRF
			FE	0.8	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
L991413-025	06-AUG-99	EP98-E	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	<10	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	89	ppm	LCS	27-AUG-99		EDXRF
			FE	1.0	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	11	ppm	LCS	27-AUG-99		EDXRF
			ZN	120	ppm	LCS	27-AUG-99		EDXRF

Approved

Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991414

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991414-001	06-AUG-99	EP98-C	AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	37	ppm	LCS	27-AUG-99		EDXRF
			FE	1.0	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	<10	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
L991414-002	06-AUG-99	EP98-D	CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	0.85	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	19	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	44	ppm	LCS	27-AUG-99		EDXRF
L991414-003	06-AUG-99	EP98-B	FE	2.0	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	32	ppm	LCS	27-AUG-99		EDXRF
			AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	44	ppm	LCS	27-AUG-99		EDXRF
			FE	2.0	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
L991414-004	06-AUG-99	EP98-A	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	32	ppm	LCS	27-AUG-99		EDXRF
			AS	41	ppm	LCS	27-AUG-99		EDXRF
			CD	12	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	210	ppm	LCS	27-AUG-99		EDXRF
			FE	2.5	%	LCS	27-AUG-99		EDXRF
			PB	250	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	320	ppm	LCS	27-AUG-99		EDXRF
L991414-005	06-AUG-99	EP98-A1	AS	60	ppm	LCS	27-AUG-99		EDXRF
			CD	11	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991414

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L991414-005	06-AUG-99	EP98-A1	CU	360	ppm	LCS	27-AUG-99	EDXRF
			FE	2.6	%	LCS	27-AUG-99	EDXRF
			PB	320	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	360	ppm	LCS	27-AUG-99	EDXRF
L991414-006	05-AUG-99	BH11-4G	AS	<10	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	<20	ppm	LCS	27-AUG-99	EDXRF
			FE	2.1	%	LCS	27-AUG-99	EDXRF
			PB	<10	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	28	ppm	LCS	27-AUG-99	EDXRF
L991414-007	05-AUG-99	BH11-4-F	AS	<10	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	<20	ppm	LCS	27-AUG-99	EDXRF
			FE	1.2	%	LCS	27-AUG-99	EDXRF
			PB	<10	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	12	ppm	LCS	27-AUG-99	EDXRF
L991414-008	05-AUG-99	BH11-4E	AS	19	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	35	ppm	LCS	27-AUG-99	EDXRF
			FE	2.4	%	LCS	27-AUG-99	EDXRF
			PB	11	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	51	ppm	LCS	27-AUG-99	EDXRF
L991414-009	05-AUG-99	BH11-4-D	AS	<10	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	69	ppm	LCS	27-AUG-99	EDXRF
			FE	2.3	%	LCS	27-AUG-99	EDXRF
			PB	<10	ppm	LCS	27-AUG-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991414

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991414-009	05-AUG-99	BH11-4-D	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	92	ppm	LCS	27-AUG-99		EDXRF
L991414-010	05-AUG-99	BH11-4-C	AS	33	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	46	ppm	LCS	27-AUG-99		EDXRF
			FE	3.0	%	LCS	27-AUG-99		EDXRF
			PB	20	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	170	ppm	LCS	27-AUG-99		EDXRF
L991414-011	05-AUG-99	BH11-4B	AS	46	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	73	ppm	LCS	27-AUG-99		EDXRF
			FE	2.4	%	LCS	27-AUG-99		EDXRF
			PB	17	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	200	ppm	LCS	27-AUG-99		EDXRF
L991414-012	06-AUG-99	SS1A11-16E	AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	1.9	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	15	ppm	LCS	27-AUG-99		EDXRF
L991414-013	06-AUG-99	SS1A11-16E1	AS	<10	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	41	ppm	LCS	27-AUG-99		EDXRF
			FE	2.0	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	17	ppm	LCS	27-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991414

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L991414-014	06-AUG-99	SSIA11-16B	AS	21	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	63	ppm	LCS	27-AUG-99	EDXRF
			FE	2.1	%	LCS	27-AUG-99	EDXRF
			PB	34	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	21	ppm	LCS	27-AUG-99	EDXRF
L991414-015	06-AUG-99	SSIA11-16C	AS	19	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	<20	ppm	LCS	27-AUG-99	EDXRF
			FE	2.2	%	LCS	27-AUG-99	EDXRF
			PB	<10	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	32	ppm	LCS	27-AUG-99	EDXRF
L991414-016	06-AUG-99	SSIA11-16D	AS	20	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	33	ppm	LCS	27-AUG-99	EDXRF
			FE	2.5	%	LCS	27-AUG-99	EDXRF
			PB	<10	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	19	ppm	LCS	27-AUG-99	EDXRF
L991414-017	06-AUG-99	SSIA11-14B	AS	17	ppm	LCS	27-AUG-99	EDXRF
			CD	13	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF
			CU	52	ppm	LCS	27-AUG-99	EDXRF
			FE	2.0	%	LCS	27-AUG-99	EDXRF
			PB	<10	ppm	LCS	27-AUG-99	EDXRF
			SE	<10	ppm	LCS	27-AUG-99	EDXRF
			ZN	41	ppm	LCS	27-AUG-99	EDXRF
L991414-018	06-AUG-99	SSIA11-14C	AS	23	ppm	LCS	27-AUG-99	EDXRF
			CD	<10	ppm	LCS	27-AUG-99	EDXRF
			CR	<80	ppm	LCS	27-AUG-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: 1991414

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991414-018	06-AUG-99	SSIA11-14C	CU	29	ppm	LCS	27-AUG-99		EDXRF
			FE	2.7	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	30	ppm	LCS	27-AUG-99		EDXRF
			AS	13	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	<20	ppm	LCS	27-AUG-99		EDXRF
			FE	2.5	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	43	ppm	LCS	27-AUG-99		EDXRF
			AS	17	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	14	ppm	LCS	27-AUG-99		EDXRF
			FE	2.6	%	LCS	27-AUG-99		EDXRF
			PB	<10	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	37	ppm	LCS	27-AUG-99		EDXRF
			AS	13	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	64	ppm	LCS	27-AUG-99		EDXRF
			FE	2.0	%	LCS	27-AUG-99		EDXRF
			PB	35	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	73	ppm	LCS	27-AUG-99		EDXRF
			AS	84	ppm	LCS	27-AUG-99		EDXRF
			CD	14	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	480	ppm	LCS	27-AUG-99		EDXRF
			FE	2.6	%	LCS	27-AUG-99		EDXRF
			PB	430	ppm	LCS	27-AUG-99		EDXRF
			AS	84	ppm	LCS	27-AUG-99		EDXRF
			CD	14	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	480	ppm	LCS	27-AUG-99		EDXRF
			FE	2.6	%	LCS	27-AUG-99		EDXRF
			PB	430	ppm	LCS	27-AUG-99		EDXRF
			AS	84	ppm	LCS	27-AUG-99		EDXRF
			CD	14	ppm	LCS	27-AUG-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

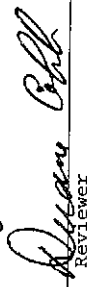
El Paso

Water and Solid Waste (Project 3220)

Batch No: L991414

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L991414-022	06-AUG-99	SS1A11-15D	SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	1500	ppm	LCS	27-AUG-99		EDXRF
L991414-023	06-AUG-99	SS1A11-15C	AS	44	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	350	ppm	LCS	27-AUG-99		EDXRF
			FE	4.3	%	LCS	27-AUG-99		EDXRF
			PB	950	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	1600	ppm	LCS	27-AUG-99		EDXRF
L991414-024	06-AUG-99	SS1A11-15-B	AS	30	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	300	ppm	LCS	27-AUG-99		EDXRF
			FE	3.1	%	LCS	27-AUG-99		EDXRF
			PB	380	ppm	LCS	27-AUG-99		EDXRF
			SE	<10	ppm	LCS	27-AUG-99		EDXRF
			ZN	1000	ppm	LCS	27-AUG-99		EDXRF
L991414-025	06-AUG-99	SS1A11-15A	AS	51	ppm	LCS	27-AUG-99		EDXRF
			CD	<10	ppm	LCS	27-AUG-99		EDXRF
			CR	<80	ppm	LCS	27-AUG-99		EDXRF
			CU	210	ppm	LCS	27-AUG-99		EDXRF
			FE	2.9	%	LCS	27-AUG-99		EDXRF
			PB	130	ppm	LCS	27-AUG-99		EDXRF
			SE	22	ppm	LCS	27-AUG-99		EDXRF
			ZN	420	ppm	LCS	27-AUG-99		EDXRF

Approved

  
Reviewer



L991413 L991414 L991434

CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As % REC

Pb % REC

643	92		8040	100
640	91		8165	101
587	84		8113	101
638	91		8091	100
652	93		8047	100

LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As % REC

Pb % REC

933	102		227	96
951	104		219	93
932	102		221	94

DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991413-20	64	68	6	338	338	0
	Cd	Cd		Cr	Cr	
	19	12	45	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	690	677	2	3.3	3.3	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	469	516	10

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991414-15	<10	<10	BDL	<10	<10	BDL
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	45	<20	BDL	2.2	2.2	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	32	14	78

LAB#

L991414-25

As	As	%DIFF	Pb	Pb	%DIFF
51	47	8	133	134	1
Cd	Cd		Cr	Cr	
<10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
210	197	6	2.9	2.9	0
Se	Se		Zn	Zn	
22	20	10	420	388	8

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

# HYDROCHEMICALS, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		ASARCO-EL PASO, TX		1 BAG													
SAMPLERS: (Signature)				SAMPLE NUMBER													
DATE	TIME	COMP.	GRAB			Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, etc.)	REMARKS		
8/4/99	0840			SSIA11-10D										X			
	0833			SSIA11-10B										X			
	0830			SSIA11-10A										X			
	0935			SSIA11-11C										X			
	0920			SSIA11-11A										X			
	0948			SSIA11-11E										X			
	0942			SSIA11-11D										X			
	0925			SSIA11-11B										X			
/																	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS							
8/4 Chambers		8/19/99 1600				TSC-SALT LARFCITY				Other							
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks											
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions		Cover letter					
				8/4 Chambers		8/19/99 1030											
Return results & electronic copy to:																	

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

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

# ASARCO

September 9, 1999

RECEIVED

SEP 17 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

HYDROMETRICS, INC.

Please find attached the X-ray results for your El Paso soil sample collected from the 10<sup>th</sup> to the 17<sup>th</sup>, and on the 24<sup>th</sup> of August. Also attached are the X-ray QC results.

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



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991511-001	10-AUG-99	BH2-1-A	AS	19	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	170	ppm	LCS	09-SEP-99		EDXRF
			FE	3.5	%	LCS	09-SEP-99		EDXRF
			PB	790	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	1300	ppm	LCS	09-SEP-99		EDXRF
			AS	12	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-002	10-AUG-99	BH2-1-B	CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	26	ppm	LCS	09-SEP-99		EDXRF
			FE	2.7	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	44	ppm	LCS	09-SEP-99		EDXRF
			AS	64	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
L991511-003	10-AUG-99	BH2-1-C	FE	2.7	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	44	ppm	LCS	09-SEP-99		EDXRF
			AS	27	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	20	ppm	LCS	09-SEP-99		EDXRF
			FE	2.0	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-004	13-AUG-99	BH2-3A	SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	44	ppm	LCS	09-SEP-99		EDXRF
			AS	27	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	20	ppm	LCS	09-SEP-99		EDXRF
			FE	2.0	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	15	ppm	LCS	09-SEP-99		EDXRF
L991511-005	13-AUG-99	BH2-3B	AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								DAYS	METHOD
L991511-005	13-AUG-99	BH2-3B	CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	2.3	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	38	ppm	LCS	09-SEP-99		EDXRF
L991511-006	13-AUG-99	BH2-3C	AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	36	ppm	LCS	09-SEP-99		EDXRF
			FE	1.9	%	LCS	09-SEP-99		EDXRF
L991511-007	13-AUG-99	BH2-3D	PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	25	ppm	LCS	09-SEP-99		EDXRF
			AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-008	12-AUG-99	BH2-3E	CR	83	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	1.8	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-009	13-AUG-99	BH2-3F	ZN	23	ppm	LCS	09-SEP-99		EDXRF
			AS	21	ppm	LCS	09-SEP-99		EDXRF
			CD	14	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
L991511-009	13-AUG-99	BH2-3F	FE	2.0	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	42	ppm	LCS	09-SEP-99		EDXRF
			AS	36	ppm	LCS	09-SEP-99		EDXRF
L991511-009	13-AUG-99	BH2-3F	CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	1.9	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	TEST METHOD
L991511-009	13-AUG-99	BH2-3F	SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	34	ppm	LCS	09-SEP-99		EDXRF
L991511-010	13-AUG-99	BH2-3G	AS	120	ppm	LCS	09-SEP-99		EDXRF
			CD	15	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	3.1	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	79	ppm	LCS	09-SEP-99		EDXRF
L991511-011	13-AUG-99	BH2-3H	AS	100	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	49	ppm	LCS	09-SEP-99		EDXRF
			FE	3.3	%	LCS	09-SEP-99		EDXRF
			PB	14	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	34	ppm	LCS	09-SEP-99		EDXRF
L991511-012	16-AUG-99	BH2-4A	AS	170	ppm	LCS	09-SEP-99		EDXRF
			CD	120	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	37	ppm	LCS	09-SEP-99		EDXRF
			FE	2.3	%	LCS	09-SEP-99		EDXRF
			PB	59	ppm	LCS	09-SEP-99		EDXRF
			SE	14	ppm	LCS	09-SEP-99		EDXRF
			ZN	560	ppm	LCS	09-SEP-99		EDXRF
L991511-013	16-AUG-99	BH2-5A	AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	1.8	%	LCS	09-SEP-99		EDXRF
			PB	21	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	54	ppm	LCS	09-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991511-014	16-AUG-99	BH2-5B	AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	44	ppm	LCS	09-SEP-99		EDXRF
			FE	1.7	%	LCS	09-SEP-99		EDXRF
			PB	19	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	21	ppm	LCS	09-SEP-99		EDXRF
			AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-015	16-AUG-99	BH2-5C	CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	40	ppm	LCS	09-SEP-99		EDXRF
			FE	2.1	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	15	ppm	LCS	09-SEP-99		EDXRF
			AS	1100	ppm	LCS	09-SEP-99		EDXRF
			CD	450	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	160	ppm	LCS	09-SEP-99		EDXRF
L991511-017	16-AUG-99	BH2-6A	FE	1.4	%	LCS	09-SEP-99		EDXRF
			PB	56	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	710	ppm	LCS	09-SEP-99		EDXRF
			AS	3700	ppm	LCS	09-SEP-99		EDXRF
			CD	210	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	1300	ppm	LCS	09-SEP-99		EDXRF
			FE	4.9	%	LCS	09-SEP-99		EDXRF
			PB	74	ppm	LCS	09-SEP-99		EDXRF
L991511-018	16-AUG-99	BH2-6B	SE	26	ppm	LCS	09-SEP-99		EDXRF
			ZN	130	ppm	LCS	09-SEP-99		EDXRF
			AS	870	ppm	LCS	09-SEP-99		EDXRF
			CD	1600	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			AS	870	ppm	LCS	09-SEP-99		EDXRF
			CD	1600	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			AS	870	ppm	LCS	09-SEP-99		EDXRF
			CD	1600	ppm	LCS	09-SEP-99		EDXRF
L991511-019	16-AUG-99	BH2-6C	CR	<80	ppm	LCS	09-SEP-99		EDXRF
			AS	870	ppm	LCS	09-SEP-99		EDXRF
			CD	1600	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			AS	870	ppm	LCS	09-SEP-99		EDXRF
			CD	1600	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			AS	870	ppm	LCS	09-SEP-99		EDXRF
			CD	1600	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991511-019	16-AUG-99	BH2-6C	CU	240	ppm	LCS	09-SEP-99		EDXRF
			FE	3.0	%	LCS	09-SEP-99		EDXRF
			PB	23	ppm	LCS	09-SEP-99		EDXRF
			SE	34	ppm	LCS	09-SEP-99		EDXRF
			ZN	580	ppm	LCS	09-SEP-99		EDXRF
			AS	400	ppm	LCS	09-SEP-99		EDXRF
			CD	630	ppm	LCS	09-SEP-99		EDXRF
L991511-020	16-AUG-99	BH2-6D	CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	2.9	%	LCS	09-SEP-99		EDXRF
			PB	15	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	600	ppm	LCS	09-SEP-99		EDXRF
			AS	170	ppm	LCS	09-SEP-99		EDXRF
L991511-021	16-AUG-99	BH2-6E	CD	710	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	2.6	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	810	ppm	LCS	09-SEP-99		EDXRF
L991511-022	17-AUG-99	BH2-6F	AS	85	ppm	LCS	09-SEP-99		EDXRF
			CD	670	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	48	ppm	LCS	09-SEP-99		EDXRF
			FE	2.7	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-023	17-AUG-99	BH2-6G	ZN	460	ppm	LCS	09-SEP-99		EDXRF
			AS	370	ppm	LCS	09-SEP-99		EDXRF
			CD	1400	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	37	ppm	LCS	09-SEP-99		EDXRF
			FE	3.0	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PAID	
L991511-023	17-AUG-99	BH2-6G	SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	520	ppm	LCS	09-SEP-99		EDXRF
L991511-024	17-AUG-99	BH2-6H	AS	47	ppm	LCS	09-SEP-99		EDXRF
			CD	58	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	23	ppm	LCS	09-SEP-99		EDXRF
			FE	1.3	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	120	ppm	LCS	09-SEP-99		EDXRF
L991511-025	17-AUG-99	BH2-7A	AS	13	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	2.4	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	59	ppm	LCS	09-SEP-99		EDXRF
L991511-026	17-AUG-99	BH2-7B	AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	29	ppm	LCS	09-SEP-99		EDXRF
			FE	2.5	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	34	ppm	LCS	09-SEP-99		EDXRF
L991511-027	17-AUG-99	BH2-7C	AS	11	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	2.6	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	35	ppm	LCS	09-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991511-028	17-AUG-99	BH2-7D	AS	<10	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	0.69	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	31	ppm	LCS	09-SEP-99		EDXRF
			AS	22	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-029	17-AUG-99	BH2-7E	CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	<20	ppm	LCS	09-SEP-99		EDXRF
			FE	3.0	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	47	ppm	LCS	09-SEP-99		EDXRF
			AS	11	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	45	ppm	LCS	09-SEP-99		EDXRF
L991511-030	17-AUG-99	BH2-7F	FE	2.2	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	21	ppm	LCS	09-SEP-99		EDXRF
			AS	11	ppm	LCS	09-SEP-99		EDXRF
			CD	<10	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	45	ppm	LCS	09-SEP-99		EDXRF
			FE	2.2	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
L991511-031	17-AUG-99	BH2-7G	SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	21	ppm	LCS	09-SEP-99		EDXRF
			AS	11	ppm	LCS	09-SEP-99		EDXRF
			CD	14	ppm	LCS	09-SEP-99		EDXRF
			CR	<80	ppm	LCS	09-SEP-99		EDXRF
			CU	21	ppm	LCS	09-SEP-99		EDXRF
			FE	2.6	%	LCS	09-SEP-99		EDXRF
			PB	<10	ppm	LCS	09-SEP-99		EDXRF
			SE	<10	ppm	LCS	09-SEP-99		EDXRF
			ZN	24	ppm	LCS	09-SEP-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER


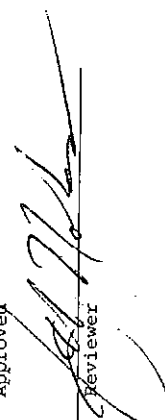
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991511

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

## L991511, L991513

CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As	% REC		Pb	% REC
611	87		8157	101
551	79		8050	100
700	100		8081	100

LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As	% REC		Pb	% REC
970	106		220	93
953	104		217	92

DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991511-21	167	168	1	<10	<10	BDL
	Cd	Cd		Cr	Cr	
	708	716	1	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	<20	27	BDL	2.6	2.6	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	814	823	1

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991511-31	15	11	31	<10	<10	BDL
	Cd	Cd		Cr	Cr	
	14	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	21	<20	BDL	2.6	2.7	4
	Se	Se		Zn	Zn	
	<10	<10	BDL	24	39	48

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM



# 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	COMMONS UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, etc.)	REMARKS
DATE	TIME	COMP.	GRAB											
8/10/99	1100			13A2-1-A										
↓	1130			13A2-1-B										
8/10/99	1205			13A2-1-C										
↓	0255			13A2-3A										
↓	0258			13A2-3B										
↓	0840			13A2-3C										
↓	0844			13A2-3D										
8/10/99	0905			13A2-3E										
8/10/99	0908			13A2-3F										
↓	1010			13A2-3G										
↓	1013			13A2-3H										
8/10/99				13A2-4A										
↓	1300			13A2-5A										
↓	1303			13A2-5B										
↓	1306			13A2-5C										
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		Air Bill #		
8/10/99		8/10/99 16:00		SALT LAKE CITY, UT										
Relinquished (Signature)		Received by: (Signature)		Remarks										
8/10/99		8/10/99 16:00												
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		Sgt.				
8/10/99		8/10/99 16:00		9-28-99 9:30										

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

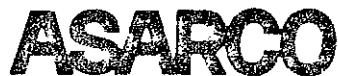
# HYGIENICS, INC.

## CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	SAMPLE NUMBER		ANALYSIS										REMARKS
DATE	TIME	COMP.	GRAB		Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Se)		
8/16/99	1445			BH2-6A									X		
	1505			BH2-6B									X		
	1555			BH2-6C									X		
	1655			BH2-6D									X		
	1720			BH2-6E									X		
				BH2-6F									X		
8/17/99	0801			BH2-6G									X		
	0835			BH2-6H									X		
	1150			BH2-7A									X		
	1205			BH2-7B									X		
	1220			BH2-7C									X		
	1320			BH2-7D									X		
	1430			BH2-7E									X		
	1440			BH2-7F									X		
	1450			BH2-7G									X		
Relinquished (Signature)					Received by: (Signature)		Lab TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS				
8/17/99					8/17/99 16:00		Salt Lake City, UT				Other				
Relinquished (Signature)					Received by: (Signature)		Remarks				Air Bill #				
8/17/99					8/17/99 16:00										
Relinquished (Signature)					Received for Laboratory by: (Signature)		Date/Time						Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits		
8/17/99					8/17/99 16:00		9.25.99						<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter		
Relinquished (Signature)					Received for Laboratory by: (Signature)		Date/Time						Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		
8/17/99					8/17/99 16:00										





RECEIVED

SEP 2 1999

HYDROMETRICS, INC.

September 17, 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

Please find attached the X-ray results for your El Paso soil samples collected from the 6<sup>th</sup> to the 24<sup>th</sup> of August. Also attached are the X-ray QC results.

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

A handwritten signature in black ink, appearing to read "Lee Stone". The signature is fluid and cursive, with a long horizontal stroke extending from the end.

Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 1220)

Batch No: L991512

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOID
L991512-001	17-AUG-99	BH2-7H	AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	35	ppm	LCS	15-SEP-99	EDXRF
			FE	2.3	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
L991512-002	18-AUG-99	BH3-11A	ZN	27	ppm	LCS	15-SEP-99	EDXRF
			AS	300	ppm	LCS	15-SEP-99	EDXRF
			CD	110	ppm	LCS	15-SEP-99	EDXRF
			CR	110	ppm	LCS	15-SEP-99	EDXRF
			CU	3400	ppm	LCS	15-SEP-99	EDXRF
			FE	2.3	%	LCS	15-SEP-99	EDXRF
			PB	990	ppm	LCS	15-SEP-99	EDXRF
L991512-003	18-AUG-99	BH3-11B	SE	13	ppm	LCS	15-SEP-99	EDXRF
			ZN	1200	ppm	LCS	15-SEP-99	EDXRF
			AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	120	ppm	LCS	15-SEP-99	EDXRF
			FE	1.6	%	LCS	15-SEP-99	EDXRF
L991512-004	18-AUG-99	BH3-11C	PB	57	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	65	ppm	LCS	15-SEP-99	EDXRF
			AS	18	ppm	LCS	15-SEP-99	EDXRF
			CD	14	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	150	ppm	LCS	15-SEP-99	EDXRF
L991512-005	18-AUG-99	BH3-11D	FE	1.8	%	LCS	15-SEP-99	EDXRF
			PB	340	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	320	ppm	LCS	15-SEP-99	EDXRF
			AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991532

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991532-005	18-AUG-99	BH3-11D	CU	<20	ppm	LCS	15-SEP-99		EDXRF
			FE	1.6	%	LCS	15-SEP-99		EDXRF
			PB	18	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	35	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
L991532-006	18-AUG-99	BH3-11E	CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	28	ppm	LCS	15-SEP-99		EDXRF
			FE	1.5	%	LCS	15-SEP-99		EDXRF
			PB	<10	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
L991532-007	18-AUG-99	BH3-11E2	ZN	32	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
			CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	21	ppm	LCS	15-SEP-99		EDXRF
			FE	1.5	%	LCS	15-SEP-99		EDXRF
L991532-008	06-AUG-99	EP891	PB	<10	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	32	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
			CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
L991532-009	12-AUG-99	EP99A	CU	45	ppm	LCS	15-SEP-99		EDXRF
			FE	2.2	%	LCS	15-SEP-99		EDXRF
			PB	<10	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	38	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
			CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	54	ppm	LCS	15-SEP-99		EDXRF
			FE	2.0	%	LCS	15-SEP-99		EDXRF
			PB	45	ppm	LCS	15-SEP-99		EDXRF
						LCS	15-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991532

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOUND
L991532-009	12-AUG-99	EP99A	SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	56	ppm	LCS	15-SEP-99	EDXRF
L991532-010	12-AUG-99	EP-99B	AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	2.4	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	43	ppm	LCS	15-SEP-99	EDXRF
L991532-011	12-AUG-99	BH2-3E2	AS	19	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	2.0	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	39	ppm	LCS	15-SEP-99	EDXRF
L991532-012	16-AUG-99	BH2-5C2	AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	45	ppm	LCS	15-SEP-99	EDXRF
			FE	2.1	%	LCS	15-SEP-99	EDXRF
			PB	12	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	34	ppm	LCS	15-SEP-99	EDXRF
L991532-013	17-AUG-99	BH2-7C2	AS	11	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	86	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	2.6	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	19	ppm	LCS	15-SEP-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991532

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991532-014	16-AUG-99	BH2-6D2	AS	410	ppm	LCS	15-SEP-99		EDXRF
			CD	690	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	40	ppm	LCS	15-SEP-99		EDXRF
			FE	3.0	%	LCS	15-SEP-99		EDXRF
			PB	14	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	660	ppm	LCS	15-SEP-99		EDXRF
			AS	890	ppm	LCS	15-SEP-99		EDXRF
			CD	560	ppm	LCS	15-SEP-99		EDXRF
L991532-015	23-AUG-99	BH3-2-A	CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	4000	ppm	LCS	15-SEP-99		EDXRF
			FE	3.0	%	LCS	15-SEP-99		EDXRF
			PB	2500	ppm	LCS	15-SEP-99		EDXRF
			SE	19	ppm	LCS	15-SEP-99		EDXRF
			ZN	4600	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
			CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	82	ppm	LCS	15-SEP-99		EDXRF
L991532-016	23-AUG-99	BH3-2B	FE	2.0	%	LCS	15-SEP-99		EDXRF
			PB	52	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	61	ppm	LCS	15-SEP-99		EDXRF
			AS	74	ppm	LCS	15-SEP-99		EDXRF
			CD	37	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	310	ppm	LCS	15-SEP-99		EDXRF
			FE	2.1	%	LCS	15-SEP-99		EDXRF
			PB	280	ppm	LCS	15-SEP-99		EDXRF
L991532-017	23-AUG-99	BH3-2B	SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	390	ppm	LCS	15-SEP-99		EDXRF
			AS	74	ppm	LCS	15-SEP-99		EDXRF
			CD	37	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	310	ppm	LCS	15-SEP-99		EDXRF
			FE	2.1	%	LCS	15-SEP-99		EDXRF
			PB	280	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	390	ppm	LCS	15-SEP-99		EDXRF
L991532-018	23-AUG-99	BH3-2C	AS	72	ppm	LCS	15-SEP-99		EDXRF
			CD	51	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991532

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991532-018	23-AUG-99	BH3-2C	CU	54	ppm	LCS	15-SEP-99		EDXRF
			FE	1.7	%	LCS	15-SEP-99		EDXRF
			PB	34	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	8000	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
L991532-019	23-AUG-99	BH3-2D	CD	14	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	<20	ppm	LCS	15-SEP-99		EDXRF
			FE	2.1	%	LCS	15-SEP-99		EDXRF
			PB	<10	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
L991532-020	23-AUG-99	BH3-2E	ZN	48	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
			CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	<20	ppm	LCS	15-SEP-99		EDXRF
			FE	1.9	%	LCS	15-SEP-99		EDXRF
L991532-021	23-AUG-99	BH3-2F	PB	16	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	20	ppm	LCS	15-SEP-99		EDXRF
			AS	16	ppm	LCS	15-SEP-99		EDXRF
			CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
L991532-022	23-AUG-99	BH3-2G	CU	<20	ppm	LCS	15-SEP-99		EDXRF
			FE	2.6	%	LCS	15-SEP-99		EDXRF
			PB	<10	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	24	ppm	LCS	15-SEP-99		EDXRF
			AS	<10	ppm	LCS	15-SEP-99		EDXRF
L991532-023	23-AUG-99	BH3-2H	CD	<10	ppm	LCS	15-SEP-99		EDXRF
			CR	<80	ppm	LCS	15-SEP-99		EDXRF
			CU	<20	ppm	LCS	15-SEP-99		EDXRF
			FE	1.9	%	LCS	15-SEP-99		EDXRF
			PB	<10	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991532

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L991532-022	23-AUG-99	BH3-2G	SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	39	ppm	LCS	15-SEP-99	EDXRF
L991532-023	23-AUG-99	BH3-11-F	AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	56	ppm	LCS	15-SEP-99	EDXRF
			FE	2.5	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	46	ppm	LCS	15-SEP-99	EDXRF
L991532-024	23-AUG-99	BH3-11-G	AS	24	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	3.2	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	30	ppm	LCS	15-SEP-99	EDXRF
L991532-025	23-AUG-99	BH3-11-H	AS	22	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	88	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	3.1	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	35	ppm	LCS	15-SEP-99	EDXRF
L991532-026	23-AUG-99	BH3-11-I	AS	28	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	3.2	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	26	ppm	LCS	15-SEP-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991532

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD
L991532-027	23-AUG-99	BH3-11-J	AS	19	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	20	ppm	LCS	15-SEP-99	EDXRF
			FE	2.3	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	30	ppm	LCS	15-SEP-99	EDXRF
			AS	12	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
L991532-028	23-AUG-99	BH3-11-J2	CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	2.4	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	43	ppm	LCS	15-SEP-99	EDXRF
			AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
L991532-029	23-AUG-99	BH3-11-K	FE	2.4	%	LCS	15-SEP-99	EDXRF
			PB	29	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	36	ppm	LCS	15-SEP-99	EDXRF
			AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	<20	ppm	LCS	15-SEP-99	EDXRF
			FE	2.4	%	LCS	15-SEP-99	EDXRF
			PB	29	ppm	LCS	15-SEP-99	EDXRF
L991532-030	24-AUG-99	BH3-3B	SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	36	ppm	LCS	15-SEP-99	EDXRF
			AS	18	ppm	LCS	15-SEP-99	EDXRF
			CD	13	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF
			CU	20	ppm	LCS	15-SEP-99	EDXRF
			FE	2.7	%	LCS	15-SEP-99	EDXRF
			PB	<10	ppm	LCS	15-SEP-99	EDXRF
			SE	<10	ppm	LCS	15-SEP-99	EDXRF
			ZN	77	ppm	LCS	15-SEP-99	EDXRF
L991532-031	24-AUG-99	BH3-3A	AS	<10	ppm	LCS	15-SEP-99	EDXRF
			CD	<10	ppm	LCS	15-SEP-99	EDXRF
			CR	<80	ppm	LCS	15-SEP-99	EDXRF

ASARCO TECHNICAL SERVICES CENTER



ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991532

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991532-031	24-AUG-99	BH3-3A	CU	23	ppm	LCS	15-SEP-99		EDXRF
			FE	2.4	%	LCS	15-SEP-99		EDXRF
			PB	18	ppm	LCS	15-SEP-99		EDXRF
			SE	<10	ppm	LCS	15-SEP-99		EDXRF
			ZN	100	ppm	LCS	15-SEP-99		EDXRF

 Approved  
 Reviewer

## L991508, L991532

### CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As	% REC		Pb	% REC
604	86		8194	102
621	89		8043	100
653	93		8059	100
608	87		8062	100

### LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As	% REC		Pb	% REC
936	102		212	90
956	104		220	93

### DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991532-20	<10	<10	BDL	16	13	21
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	23	<20	BDL	2.3	2.3	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	100	82	20

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991532-31	<10	<10	BDL	18	15	18
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	<20	<20	BDL	1.9	1.9	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	20	19	5

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

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 CON-TAINERS		REMARKS													
1035		ASARCO, EL PASO, TX		1 BAR		XRF/A <sub>s</sub> , Cd, Cr, Cu, Fe, Pb, Zn, Ni, V													
SAMPLERS: (Signature)		Handwritten Signature																	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	P.O. #		Shipped via: Bus, Fed Ex, UPS Other: _____ Air Bill # _____			
8/17/99	1535			BH2-7H															
8/18/99	0845			BH3-11A															
	0850			BH3-11B															
	0852			BH3-11C															
	0854			BH3-11D															
	0855			BH3-11E															
	0856			BH3-11F															
8/16/99	1710			EP89 I															
8/17/99	0944			EP99 A															
	0948			EP-99 B															
	0907			BH2-3ED															
8/16/99	1310			BH2-5CD															
8/17/99	1225			BH2-7CD															
8/16/99	1658			BH2-6DD															
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)		Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other														
Relinquished (Signature)	Date/Time	Split Samples: <input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Declined _____ Sen.																	

# HYDROTECHNICS, INC.

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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 <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Mn, Se)			
1035					1 BAG											
8/23/99	1430			BH3-2-A									X			
	1435			BH3-2-B									X			
	1438			BH3-2-Ba									X			
	1510			BH3-2-C									X			
	1530			BH3-2-D									X			
	1535			BH3-2-E									X			
	1600			BH3-2-F									X			
	1605			BH3-2-G									X			
	0835			BH3-11-F									X			
	0845			BH3-11-G									X			
	0850			BH3-11-H									X			
	0935			BH3-11-I									X			
	0940			BH3-11-J									X			
	0942			BH3-11-Ja									X			
	1140			BH3-11-K									X			
Relinquished (Signature)					Received by: (Signature)	Lab	TSC		P.O. #	Shipped via: Bus Fed Ex UPS						
Relinquished (Signature)					Received by: (Signature)	SALT LAKE CITY, UT				Other		Air Bill #				
Relinquished (Signature)					Received for Laboratory by: (Signature)	Remarks										
Relinquished (Signature)					Date/Time	8-26-99 11:45										
Enclosed:					<input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other											
Split Samples:					<input type="checkbox"/> Accepted <input type="checkbox"/> Declined											



# CHAIN OF CUSTODY RECORD

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PROJ. NO.	PROJECT NAME			NO. OF CONTAINERS	REMARKS
1035	ASARCO-EL PASO, TX				
SAMPLES: (Signature) <i>[Signature]</i> XREF (3, 6, 15, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)					
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	REMARKS
8/24/99	1330			BA3-3B	
↓	1315			BA3-3A	
<div> <div>Commons UF/RAW</div> <div>Diss. Metal F/HNO<sub>3</sub></div> <div>CN UF/NaOH</div> <div>Total Metals UF/HNO<sub>3</sub></div> <div>Total Recoverable Metals UF/HNO<sub>3</sub></div> <div>BTEX</div> <div>TPH</div> </div>					
					Shipped via: Bus. <input checked="" type="checkbox"/> Fed <input checked="" type="checkbox"/> Ex <input type="checkbox"/> UPS Other _____ Air Bill # _____
Relinquished (Signature) <i>[Signature]</i>					P.O. #
Date/Time 8/24/99 1600					
Relinquished (Signature)					Lab
Date/Time					
Received by: (Signature)					Remarks
Date/Time					
Received for Laboratory by: (Signature) <i>[Signature]</i>					Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____
Date/Time					
Date/Time 8-26-99 1145					Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined <input type="checkbox"/> Sign _____

# ASARCO

RECEIVED

OCT 07 1999

HYDROMETRICS, INC.

September 28, 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

Please find attached the X-ray results for your El Paso soil samples collected from the 2<sup>nd</sup> to the 27<sup>th</sup> of August. Also attached are the X-ray QC results.

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



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



# L991597

CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As	% REC		Pb	% REC
637	91		8131	101
612	87		8175	101
611	87		7997	99
619	88		8076	100

LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As	% REC		Pb	% REC
972	106		217	92
953	104		233	99

DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991597-10	46	48	4	14	19	30
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	<20	<20	BDL	2	2	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	163	168	3

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991597-20	40	43	7	22	30	31
	Cd	Cd		Cr	Cr	
	14	12	15	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	<20	<20	BDL	2.2	2.2	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	101	72	34

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991597

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOID	DATA METHOD
L991597-001	02-AUG-99	BH3-4A	AS	64	ppm	LCS	24-SEP-99		EDXRF
			CD	37	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	211	ppm	LCS	24-SEP-99		EDXRF
			FE	1.7	%	LCS	24-SEP-99		EDXRF
			PB	1300	ppm	LCS	24-SEP-99		EDXRF
			SE	10	ppm	LCS	24-SEP-99		EDXRF
			ZN	400	ppm	LCS	24-SEP-99		EDXRF
L991597-002	02-AUG-99	BH3-4B	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	65	ppm	LCS	24-SEP-99		EDXRF
			FE	1.5	%	LCS	24-SEP-99		EDXRF
			PB	120	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	130	ppm	LCS	24-SEP-99		EDXRF
L991597-003	25-AUG-99	BH3-4C	AS	370	ppm	LCS	24-SEP-99		EDXRF
			CD	360	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	93	ppm	LCS	24-SEP-99		EDXRF
			FE	1.8	%	LCS	24-SEP-99		EDXRF
			PB	72	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	44000	ppm	LCS	24-SEP-99		EDXRF
L991597-004	25-AUG-99	BH3-4D	AS	20	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	2.2	%	LCS	24-SEP-99		EDXRF
			PB	15	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	190	ppm	LCS	24-SEP-99		EDXRF
L991597-005	25-AUG-99	BH3-4E	AS	19	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF

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## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991597

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991597-005	25-AUG-99	BH3-4E	CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	2.4	%	LCS	24-SEP-99		EDXRF
			PB	<10	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	120	ppm	LCS	24-SEP-99		EDXRF
L991597-006	25-AUG-99	BH3-5A	AS	870	ppm	LCS	24-SEP-99		EDXRF
			CD	190	ppm	LCS	24-SEP-99		EDXRF
			CR	260	ppm	LCS	24-SEP-99		EDXRF
			CU	7400	ppm	LCS	24-SEP-99		EDXRF
			FE	3.1	%	LCS	24-SEP-99		EDXRF
L991597-007	25-AUG-99	BH3-5A2	PB	3800	ppm	LCS	24-SEP-99		EDXRF
			SE	35	ppm	LCS	24-SEP-99		EDXRF
			ZN	10000	ppm	LCS	24-SEP-99		EDXRF
			AS	550	ppm	LCS	24-SEP-99		EDXRF
			CD	150	ppm	LCS	24-SEP-99		EDXRF
L991597-008	25-AUG-99	BH3-5B	CR	200	ppm	LCS	24-SEP-99		EDXRF
			CU	5600	ppm	LCS	24-SEP-99		EDXRF
			FE	2.7	%	LCS	24-SEP-99		EDXRF
			PB	2400	ppm	LCS	24-SEP-99		EDXRF
			SE	22	ppm	LCS	24-SEP-99		EDXRF
L991597-009	25-AUG-99	BH3-5C	ZN	7600	ppm	LCS	24-SEP-99		EDXRF
			AS	2100	ppm	LCS	24-SEP-99		EDXRF
			CD	430	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	110	ppm	LCS	24-SEP-99		EDXRF
L991597-009	25-AUG-99	BH3-5C	FE	2.1	%	LCS	24-SEP-99		EDXRF
			PB	63	ppm	LCS	24-SEP-99		EDXRF
			SE	81	ppm	LCS	24-SEP-99		EDXRF
			ZN	40000	ppm	LCS	24-SEP-99		EDXRF
			AS	420	ppm	LCS	24-SEP-99		EDXRF
L991597-009	25-AUG-99	BH3-5C	CD	300	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	65	ppm	LCS	24-SEP-99		EDXRF
			FE	1.7	%	LCS	24-SEP-99		EDXRF
			PB	14	ppm	LCS	24-SEP-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991597

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991597-009	25-AUG-99	BH3-5C	SE	13	ppm	LCS	24-SEP-99	EDXRF
			ZN	33000	ppm	LCS	24-SEP-99	EDXRF
L991597-010	25-AUG-99	BH3-5D	AS	46	ppm	LCS	24-SEP-99	EDXRF
			CD	<10	ppm	LCS	24-SEP-99	EDXRF
			CR	<80	ppm	LCS	24-SEP-99	EDXRF
			CU	<20	ppm	LCS	24-SEP-99	EDXRF
			FE	2.0	%	LCS	24-SEP-99	EDXRF
			PB	14	ppm	LCS	24-SEP-99	EDXRF
			SE	<10	ppm	LCS	24-SEP-99	EDXRF
			ZN	160	ppm	LCS	24-SEP-99	EDXRF
L991597-011	25-AUG-99	BH3-5E	AS	25	ppm	LCS	24-SEP-99	EDXRF
			CD	<10	ppm	LCS	24-SEP-99	EDXRF
			CR	<80	ppm	LCS	24-SEP-99	EDXRF
			CU	<20	ppm	LCS	24-SEP-99	EDXRF
			FE	1.7	%	LCS	24-SEP-99	EDXRF
			PB	<10	ppm	LCS	24-SEP-99	EDXRF
			SE	<10	ppm	LCS	24-SEP-99	EDXRF
			ZN	78	ppm	LCS	24-SEP-99	EDXRF
L991597-012	25-AUG-99	BH3-5F	AS	55	ppm	LCS	24-SEP-99	EDXRF
			CD	<10	ppm	LCS	24-SEP-99	EDXRF
			CR	<80	ppm	LCS	24-SEP-99	EDXRF
			CU	48	ppm	LCS	24-SEP-99	EDXRF
			FE	2.0	%	LCS	24-SEP-99	EDXRF
			PB	16	ppm	LCS	24-SEP-99	EDXRF
			SE	<10	ppm	LCS	24-SEP-99	EDXRF
			ZN	180	ppm	LCS	24-SEP-99	EDXRF
L991597-013	31-AUG-99	BH3-8A	AS	<10	ppm	LCS	24-SEP-99	EDXRF
			CD	<10	ppm	LCS	24-SEP-99	EDXRF
			CR	<80	ppm	LCS	24-SEP-99	EDXRF
			CU	<20	ppm	LCS	24-SEP-99	EDXRF
			FE	1.3	%	LCS	24-SEP-99	EDXRF
			PB	15	ppm	LCS	24-SEP-99	EDXRF
			SE	<10	ppm	LCS	24-SEP-99	EDXRF
			ZN	59	ppm	LCS	24-SEP-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991597

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991597-014	31-AUG-99	BH3-8B	AS	180	ppm	LCS	24-SEP-99		EDXRF
			CD	42	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	44	ppm	LCS	24-SEP-99		EDXRF
			FE	1.4	%	LCS	24-SEP-99		EDXRF
			PB	33	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	8500	ppm	LCS	24-SEP-99		EDXRF
L991597-015	31-AUG-99	BH3-8B2	AS	170	ppm	LCS	24-SEP-99		EDXRF
			CD	62	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.3	%	LCS	24-SEP-99		EDXRF
			PB	41	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	8200	ppm	LCS	24-SEP-99		EDXRF
L991597-016	25-AUG-99	BH3-6A	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	41	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.0	%	LCS	24-SEP-99		EDXRF
			PB	23	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	330	ppm	LCS	24-SEP-99		EDXRF
L991597-017	25-AUG-99	BH3-6B	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	28	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.0	%	LCS	24-SEP-99		EDXRF
			PB	14	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	110	ppm	LCS	24-SEP-99		EDXRF
L991597-018	26-AUG-99	BH3-6C	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF