

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991393

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991393-021	05-AUG-99	EPRI-9908-136	AS	.005	ppm	KB	26-AUG-99	180
			AS(D)	.005	ppm	KB	27-AUG-99	180
			CA	246.	ppm	MK	23-AUG-99	180
			CD	<.005	ppm	KB	26-AUG-99	180
			CD(D)	<.005	ppm	KB	27-AUG-99	180
			CL-	555.	ppm	JN	25-AUG-99	28
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1
			COND.	4780.	unthos/cm2	BD	09-AUG-99	28
			CR	.010	ppm	KB	26-AUG-99	180
			CR(D)	.013	ppm	KB	27-AUG-99	180
			CU	<.025	ppm	KB	26-AUG-99	6020
			CU(D)	<.025	ppm	KB	27-AUG-99	180
			F-	.75	ppm	BD	26-AUG-99	28
			FE	.42	ppm	MK	23-AUG-99	180
			FE(D)	<.10	ppm	MK	23-AUG-99	180
			HCO3	197.	ppm CaCO3	DC	17-AUG-99	14
			K	14.	ppm	MK	23-AUG-99	180
			MG	108.	ppm	MK	23-AUG-99	180
			NA	608.	ppm	MK	23-AUG-99	180
			NO2/NO3	39.	ppm	JN	13-AUG-99	28
			PB	<.003	ppm	KB	26-AUG-99	180
			PB(D)	<.003	ppm	KB	27-AUG-99	180
			PH	7.9	pH	DC	17-AUG-99	150.1
			SE	.24	ppm	KB	26-AUG-99	180
			SE(D)	.25	ppm	KB	27-AUG-99	180
			SO4=	1609.	ppm	JN	06-AUG-99	28
			TDS	3666.	ppm	BD	09-AUG-99	7
			TSS	19.	ppm	DC	09-AUG-99	160.2
			ZN	<.020	ppm	KB	26-AUG-99	180
			ZN(D)	.020	ppm	KB	27-AUG-99	180
L991393-022	05-AUG-99	EPRI-9908-199	AS	<.005	ppm	KB	26-AUG-99	180
			AS(D)	<.005	ppm	KB	27-AUG-99	180
			CA	<1.0	ppm	MK	23-AUG-99	180
			CD	<.005	ppm	KB	26-AUG-99	180
			CD(D)	<.005	ppm	KB	27-AUG-99	180
			CL-	<1.0	ppm	JN	25-AUG-99	28
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1
			COND.	<5.0	unthos/cm2	BD	09-AUG-99	28

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L991393-022	05-AUG-99	EPRI-9908-199	CR	<.010	ppm	KB	26-AUG-99	180	6020
			CR(D)	<.010	ppm	KB	27-AUG-99	180	6020
			CU	<.025	ppm	KB	26-AUG-99		6020
			CU(D)	<.025	ppm	KB	27-AUG-99	180	6020
			F-	<.050	ppm	BD	26-AUG-99	28	340.2
			FE	<.10	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	23-AUG-99	180	6010
			HCO3	2.2	ppm CaCO3	DC	17-AUG-99	14	310.1
			K	<5.0	ppm	MK	23-AUG-99	180	6010
			MG	<1.0	ppm	MK	23-AUG-99	180	6010
			NA	<5.0	ppm	MK	23-AUG-99	180	6010
			NO2/NO3	<.050	ppm	JN	13-AUG-99	28	353.2
			PB	<.003	ppm	KB	26-AUG-99	180	6020
			PB(D)	<.003	ppm	KB	27-AUG-99	180	6020
			PH	6.3	PH	DC	17-AUG-99		150.1
			SE	<.005	ppm	KB	26-AUG-99	180	6020
			SE(D)	<.005	ppm	KB	27-AUG-99	180	6020
			SO4=	2.3	ppm	JN	06-AUG-99	28	9036
			TDS	<10.	ppm	BD	09-AUG-99	7	160.1
			TSS	<1.0	ppm	DC	09-AUG-99		160.2
			ZN	<.020	ppm	KB	26-AUG-99	180	6020
			ZN(D)	<.020	ppm	KB	27-AUG-99	180	6020
L991393-023	05-AUG-99	EPRI-9908-156	AS	.17	ppm	KB	26-AUG-99	180	6020
			AS(D)	.16	ppm	KB	27-AUG-99	180	6020
			CA	191.	ppm	MK	23-AUG-99	180	6010
			CD	<.005	ppm	KB	26-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	27-AUG-99	180	6020
			CL-	480.	ppm	JN	25-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99		310.1
			COND.	4960.	umhos/cm2	BD	09-AUG-99	28	120.1
			CR	<.010	ppm	KB	26-AUG-99	180	6020
			CR(D)	<.010	ppm	KB	27-AUG-99	180	6020
			CU	.048	ppm	KB	26-AUG-99		6020
			CU(D)	<.025	ppm	KB	27-AUG-99	180	6020
			F-	.56	ppm	BD	26-AUG-99	28	340.2
			FE	1.4	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	23-AUG-99	180	6010
			HCO3	271.	ppm CaCO3	DC	17-AUG-99	14	310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	CRIS	METHOD
L991393-023	05-AUG-99	EPRI-9908-156	K	10.	ppm	MK	23-AUG-99	180		6010
			MG	100.	ppm	MK	23-AUG-99	180		6010
			NA	687.	ppm	MK	23-AUG-99	180		6010
			NO2/NO3	38.	ppm	JN	13-AUG-99	28		353.2
			PB	.019	ppm	KB	26-AUG-99	180		6020
			PB(D)	<.003	ppm	KB	27-AUG-99	180		6020
			PH	7.8	pH	DC	17-AUG-99			150.1
			SE	1.0	ppm	KB	26-AUG-99	180		6020
			SE(D)	1.1	ppm	KB	27-AUG-99	180		6020
			SO4=	1834.	ppm	JN	06-AUG-99	28		9036
			TDS	3789.	ppm	BD	09-AUG-99	7		160.1
			TSS	186.	ppm	DC	09-AUG-99			160.2
			ZN	.054	ppm	KB	26-AUG-99	180		6020
			ZN(D)	.025	ppm	KB	27-AUG-99	180		6020
			AS	6.0	ppm	MK	23-AUG-99	180		6010
			AS(D)	7.2	ppm	MK	23-AUG-99	180		6010
			CA	182.	ppm	MK	23-AUG-99	180		6010
			CD	.010	ppm	KB	26-AUG-99	180		6020
			CD(D)	.010	ppm	KB	27-AUG-99	180		6020
			CL-	553.	ppm	JN	25-AUG-99	28		325.2
L991393-024	05-AUG-99	EPRI-9908-143	CO3	<1.0	ppm CaCO3	DC	17-AUG-99			310.1
			COND.	5110.	umhos/cm2	BD	09-AUG-99	28		120.1
			CR	<.010	ppm	KB	26-AUG-99	180		6020
			CR(D)	<.010	ppm	KB	27-AUG-99	180		6020
			CU	<.025	ppm	KB	26-AUG-99			6020
			CU(D)	<.025	ppm	KB	27-AUG-99	180		6020
			F-	3.4	ppm	BD	26-AUG-99	28		340.2
			FE	.55	ppm	MK	23-AUG-99	180		6010
			FE(D)	<.10	ppm	MK	23-AUG-99	180		6010
			HCO3	230.	ppm CaCO3	DC	17-AUG-99	14		310.1
			K	32.	ppm	MK	23-AUG-99	180		6010
			MG	42.	ppm	MK	23-AUG-99	180		6010
			NA	823.	ppm	MK	23-AUG-99	180		6010
			NO2/NO3	1.8	ppm	MK	23-AUG-99	180		6010
			PB	.011	ppm	JN	16-AUG-99	28		353.2
			PB(D)	.003	ppm	KB	26-AUG-99	180		6020
			PH	7.4	pH	DC	17-AUG-99			150.1
			SE	.023	ppm	KB	26-AUG-99	180		6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	DNMS	METHOD
L991393-024	05-AUG-99	EPRI-9908-143	SE(D)	.025	ppm	KB	27-AUG-99	180		6020
			SO4=	2045.	ppm	JN	06-AUG-99	28		9036
			TDS	3766.	ppm	BD	09-AUG-99	7		160.1
			TSS	22.	ppm	DC	09-AUG-99			160.2
			ZN	.036	ppm	KB	26-AUG-99	180		6020
			ZN(D)	.024	ppm	KB	27-AUG-99	180		6020
			AS	.024	ppm	KB	26-AUG-99	180		6020
			AS(D)	.021	ppm	KB	27-AUG-99	180		6020
			CA	59.	ppm	MK	23-AUG-99	180		6010
			CD	<.005	ppm	KB	26-AUG-99	180		6020
L991393-025	05-AUG-99	EPRI-9908-154	CD(D)	<.005	ppm	KB	27-AUG-99	180		6020
			CL-	407.	ppm	JN	25-AUG-99	28		325.2
			CO3	<1.0	ppm	CaCO3	17-AUG-99			310.1
			COND.	5070.	umhos/cm2	BD	09-AUG-99	28		120.1
			CR	<.010	ppm	KB	26-AUG-99	180		6020
			CR(D)	<.010	ppm	KB	27-AUG-99	180		6020
			CU	<.025	ppm	KB	26-AUG-99			6020
			CU(D)	<.025	ppm	KB	27-AUG-99	180		6020
			F-	2.2	ppm	BD	26-AUG-99	28		340.2
			FE	.70	ppm	MK	23-AUG-99	180		6010
			FE(D)	<.10	ppm	MK	23-AUG-99	180		6010
			HCO3	410.	ppm	CaCO3	17-AUG-99	14		310.1
			K	6.7	ppm	DC	23-AUG-99	180		6010
			MG	37.	ppm	MK	23-AUG-99	180		6010
			NA	1031.	ppm	MK	23-AUG-99	180		6010
			NO2/NO3	1.7	ppm	JN	16-AUG-99	28		353.2
			PB	.010	ppm	KB	26-AUG-99	180		6020
			PB(D)	<.003	ppm	KB	27-AUG-99	180		6020
			PH	8.1	pH	DC	17-AUG-99			150.1
			SE	.035	ppm	KB	26-AUG-99	180		6020
			SE(D)	.038	ppm	KB	27-AUG-99	180		6020
			SO4=	1865.	ppm	JN	06-AUG-99	28		9036
			TDS	3742.	ppm	BD	09-AUG-99	7		160.1
			TSS	61.	ppm	DC	09-AUG-99			160.2
			ZN	.062	ppm	KB	26-AUG-99	180		6020
			ZN(D)	.025	ppm	KB	27-AUG-99	180		6020

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Batch No: L991393

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991393-026	05-AUG-99	EPRI-9908-140	AS	.026	ppm	KB	26-AUG-99	180	6020
			AS (D)	.027	ppm	KB	27-AUG-99	180	6020
			CA	262.	ppm	MK	23-AUG-99	180	6010
			CD	<.005	ppm	KB	26-AUG-99	180	6020
			CD (D)	<.005	ppm	KB	27-AUG-99	180	6020
			CL-	439.	ppm	JN	25-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99		310.1
			COND.	6550.	umhos/cm2	BD	09-AUG-99	28	120.1
			CR	<.010	ppm	KB	26-AUG-99	180	6020
			CR (D)	<.010	ppm	KB	27-AUG-99	180	6020
			CU	<.025	ppm	KB	26-AUG-99		6020
			CU (D)	<.025	ppm	KB	27-AUG-99	180	6020
			F-	2.7	ppm	BD	26-AUG-99	28	340.2
			FE	.15	ppm	MK	23-AUG-99	180	6010
			FE (D)	<.10	ppm	MK	23-AUG-99	180	6010
			HCO3	220.	ppm CaCO3	DC	17-AUG-99	14	310.1
			K	348.	ppm	MK	23-AUG-99	180	6010
			MG	117.	ppm	MK	23-AUG-99	180	6010
			NA	1066.	ppm	MK	23-AUG-99	180	6010
			NO2/NO3	19.	ppm	JN	16-AUG-99	28	353.2
			PB	<.003	ppm	KB	26-AUG-99	180	6020
			PB (D)	<.003	ppm	KB	27-AUG-99	180	6020
			PH	7.5	PH	DC	17-AUG-99		150.1
			SE	.96	ppm	KB	26-AUG-99	180	6020
			SE (D)	1.1	ppm	KB	27-AUG-99	180	6020
			SO4=	3032.	ppm	JN	06-AUG-99	28	9036
			TDS	5277.	ppm	BD	09-AUG-99	7	160.1
			TSS	6.9	ppm	DC	09-AUG-99		160.2
			ZN	.024	ppm	KB	26-AUG-99	180	6020
			ZN (D)	.029	ppm	KB	27-AUG-99	180	6020
L991393-027	05-AUG-99	EPRI-9908-120	AS	1.4	ppm	KB	10-SEP-99	180	6020
			AS (D)	1.0	ppm	KB	27-AUG-99	180	6020
			CA	512.	ppm	MK	23-AUG-99	180	6010
			CD	.51	ppm	MK	23-AUG-99	180	6010
			CD (D)	.51	ppm	MK	23-AUG-99	180	6010
			CL-	1369.	ppm	JN	25-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99		310.1
			COND.	11190.	umhos/cm2	BD	09-AUG-99	28	120.1

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	DNIS METHOD
L991393-027	05-AUG-99	EPRI-9908-120	CR	.16	ppm	KB	26-AUG-99	180	6020
			CR(D)	.024	ppm	KB	27-AUG-99	180	6020
			CU	.39	ppm	KB	26-AUG-99		6020
			CU(D)	.36	ppm	KB	27-AUG-99	180	6020
			F-	6.3	ppm	BD	26-AUG-99	28	340.2
			FE	2.2	ppm	MK	23-AUG-99	180	6010
			FE(D)	.59	ppm	MK	23-AUG-99	180	6010
			HCO3	560.	ppm	DC	17-AUG-99	14	310.1
			K	21.	ppm	MK	23-AUG-99	180	6010
			MG	267.	ppm	MK	23-AUG-99	180	6010
			NA	1823.	ppm	BD	10-SEP-99	180	6010
			NO2/NO3	130.	ppm	JN	16-AUG-99	28	353.2
			PB	.44	ppm	KB	26-AUG-99	180	6020
			PB(D)	.041	ppm	KB	27-AUG-99	180	6020
			PH	7.2	PH	DC	17-AUG-99		150.1
			SE	.29	ppm	KB	10-SEP-99	180	6020
			SE(D)	.28	ppm	KB	10-SEP-99	180	6020
			SO4=	4606.	ppm	JN	06-AUG-99	28	9036
			TDS	9637.	ppm	BD	09-AUG-99	7	160.1
			TSS	15.	ppm	DC	09-AUG-99		160.2
			ZN	2.7	ppm	MK	23-AUG-99	180	6010
			ZN(D)	2.1	ppm	KB	27-AUG-99	180	6020

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

Approved
 Reviewer
 Ken Bilal / B. J. D. M.

ASARCO TECHNICAL SERVICES CENTER

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Water and Solid Waste (Project 3220)

Batch No: WG990851

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG990851-1		Matrix Spike							
			AS	95					
			AS (D)	98	\$Recovery	KB	26-AUG-99	6020	
			CD	84	\$Recovery	KB	27-AUG-99	6020	
			CD (D)	87	\$Recovery	KB	26-AUG-99	6020	
			CL-	99	\$Recovery	KB	27-AUG-99	6020	
			CR	94	\$Recovery	JN	25-AUG-99	325.2	
			CR (D)	97	\$Recovery	KB	26-AUG-99	6020	
			CU	89	\$Recovery	KB	27-AUG-99	6020	
			CU (D)	102	\$Recovery	KB	26-AUG-99	6020	
			F-	97	\$Recovery	KB	27-AUG-99	6020	
			FE	84	\$Recovery	BD	26-AUG-99	340.2	
			FE (D)	108	\$Recovery	MK	26-AUG-99	6010	
			NO2/NO3	110	\$Recovery	MK	23-AUG-99	6010	
			PB	83	\$Recovery	JN	13-AUG-99	353.2	
			PB (D)	88	\$Recovery	KB	26-AUG-99	6020	
			SE	100	\$Recovery	KB	27-AUG-99	6020	
			SE (D)	99	\$Recovery	KB	26-AUG-99	6020	
			SO4=	110	\$Recovery	KB	27-AUG-99	6020	
			ZN	81	\$Recovery	JN	06-AUG-99	9036	
			ZN (D)	82	\$Recovery	KB	26-AUG-99	6020	
					\$Recovery	KB	27-AUG-99	6020	
WG990851-2		Prep Blank							
			AS	<.005	ppm	KB	26-AUG-99	6020	
			AS (D)	<.005	ppm	KB	27-AUG-99	6020	
			CA	<1.0	ppm	MK	23-AUG-99	6010	
			CD	<.005	ppm	KB	26-AUG-99	6020	
			CD (D)	<.005	ppm	KB	27-AUG-99	6020	
			CL-	<1.0	ppm	JN	25-AUG-99	325.2	
			CO3	<1.0	ppm	CaCO3	17-AUG-99	310.1	
			COND.	<5.0	umhos/cm2	BD	09-AUG-99	120.1	
			CR	<.010	ppm	KB	26-AUG-99	6020	
			CR (D)	<.010	ppm	KB	27-AUG-99	6020	
			CU	<.025	ppm	KB	26-AUG-99	6020	
			CU (D)	<.025	ppm	KB	27-AUG-99	6020	
			F-	<.050	ppm	BD	26-AUG-99	340.2	
			FE	<1.0	ppm	MK	23-AUG-99	6010	
			FE (D)	<1.0	ppm	MK	23-AUG-99	6010	
			HCO3	<1.0	ppm	CaCO3	17-AUG-99	310.1	
			K	<5.0	ppm	MK	23-AUG-99	6010	
			MG	<1.0	ppm	MK	23-AUG-99	6010	

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	PAIS	METHOD
WG990851-2		Prep Blank	NA	<5.0	ppm	MK	23-AUG-99			6010
			NO2/NO3	<.050	ppm	JN	13-AUG-99			353.2
			PB	<.003	ppm	KB	26-AUG-99			6020
			PB(D)	<.003	ppm	KB	27-AUG-99			6020
			SE	<.005	ppm	KB	26-AUG-99			6020
			SE(D)	<.005	ppm	KB	27-AUG-99			6020
			SO4=	<2.0	ppm	JN	06-AUG-99			9036
			TDS	<10.	ppm	BD	09-AUG-99			160.1
			TSS	<1.0	ppm	DC	09-AUG-99			160.2
			ZN	<.020	ppm	KB	26-AUG-99			6020
			ZN(D)	<.020	ppm	KB	27-AUG-99			6020
			AS	103	%Recovery	KB	26-AUG-99			6020
			AS(D)	99	%Recovery	KB	27-AUG-99			6020
			CA	99	%Recovery	MK	23-AUG-99			6010
			CD	99	%Recovery	KB	26-AUG-99			6020
			CD(D)	99	%Recovery	KB	27-AUG-99			6020
			CL-	97	%Recovery	JN	25-AUG-99			325.2
			COND.	98	%Recovery	BD	09-AUG-99			120.1
			CR	99	%Recovery	KB	26-AUG-99			6020
			CR(D)	100	%Recovery	KB	27-AUG-99			6020
			CU	99	%Recovery	KB	26-AUG-99			6020
WG990851-3		Lab Control Sample	CU(D)	98	%Recovery	KB	27-AUG-99			6020
			F-	99	%Recovery	BD	26-AUG-99			340.2
			FE	108	%Recovery	MK	23-AUG-99			6010
			FE(D)	108	%Recovery	MK	23-AUG-99			6010
			HCO3	98	%Recovery	DC	17-AUG-99			310.1
			K	103	%Recovery	MK	23-AUG-99			6010
			MG	98	%Recovery	MK	23-AUG-99			6010
			NA	118	%Recovery	MK	23-AUG-99			6010
			NO2/NO3	106	%Recovery	JN	13-AUG-99			353.2
			PB	95	%Recovery	KB	26-AUG-99			6020
			PB(D)	109	%Recovery	KB	27-AUG-99			6020
			SE	110	%Recovery	KB	26-AUG-99			6020
			SE(D)	102	%Recovery	KB	27-AUG-99			6020
			SO4=	90	%Recovery	JN	06-AUG-99			9036
			TDS	97	%Recovery	BD	09-AUG-99			160.1
			TSS	96	%Recovery	DC	09-AUG-99			160.2
			ZN	107	%Recovery	KB	26-AUG-99			6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990851

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG990851-3		Lab Control Sample	ZN(D)	105	%Recovery	KB	27-AUG-99		6020
WG990851-4		Duplicate	AS	3.8	% RPD	KB	26-AUG-99		6020
			AS(D)	10	% RPD	KB	27-AUG-99		6020
			CA	2.1	% RPD	MK	23-AUG-99		6010
			CD	<1	% RPD	KB	26-AUG-99		6020
			CD(D)	<1	% RPD	KB	27-AUG-99		6020
			CL-	8.1	% RPD	JN	25-AUG-99		325.2
			CO3	<1	% RPD	DC	17-AUG-99		310.1
			COND.	<1	% RPD	BD	09-AUG-99		120.1
			CR	<1	% RPD	KB	26-AUG-99		6020
			CR(D)	<1	% RPD	KB	27-AUG-99		6020
			CU	<1	% RPD	KB	26-AUG-99		6020
			CU(D)	<1	% RPD	KB	27-AUG-99		6020
			F-	3.8	% RPD	BD	26-AUG-99		340.2
			FE	+/-prdl	% RPD	MK	23-AUG-99		6010
			FE(D)	<1	% RPD	MK	23-AUG-99		6010
			HCO3	<1	% RPD	DC	17-AUG-99		310.1
			K	5.0	% RPD	MK	23-AUG-99		6010
			MG	3.2	% RPD	MK	23-AUG-99		6010
			NA	8.1	% RPD	MK	23-AUG-99		6010
			NO2/NO3	3.5	% RPD	JN	13-AUG-99		353.2
			PB	<1	% RPD	KB	26-AUG-99		6020
			PB(D)	<1	% RPD	KB	27-AUG-99		6020
			SE	<1	% RPD	KB	26-AUG-99		6020
			SE(D)	3.2	% RPD	KB	27-AUG-99		6020
			SO4=	5.9	% RPD	JN	06-AUG-99		9036
			TDS	3.0	% RPD	BD	09-AUG-99		180.1
			TSS	1.4	% RPD	DC	09-AUG-99		180.2
			ZN	+/-prdl	% RPD	KB	26-AUG-99		6020
			ZN(D)	+/-prdl	% RPD	KB	27-AUG-99		6020
WG990851-5		Practical Quantitation Limit	AS	.005	ppm				6020
			AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD	.005	ppm				6020
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990851

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG990851-5		Practical Quantitation Limit	COND.	5.0	umhos/cm2				120.1
			CR	.010	ppm				6020
			CR(D)	.010	ppm				6020
			CU	.025	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE	.10	ppm				6010
			FE(D)	.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	.050	ppm				353.2
			PB	.003	ppm				6020
			PB(D)	.003	ppm				6020
			SE	.005	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	.020	ppm				6020
			ZN(D)	.020	ppm				6020
WG990851-6		Matrix Spike	AS	95	%Recovery	MK	23-AUG-99		6010
			AS(D)	99	%Recovery	MK	23-AUG-99		6010
			CD	93	%Recovery	MK	23-AUG-99		6010
			CD(D)	90	%Recovery	MK	23-AUG-99		6010
			CL-	103	%Recovery	JN	25-AUG-99		325.2
			CR	100	%Recovery	MK	23-AUG-99		6010
			CR(D)	97	%Recovery	MK	23-AUG-99		6010
			CU	102	%Recovery	KB	26-AUG-99		6020
			CU(D)	98	%Recovery	KB	26-AUG-99		6020
			FE	111	%Recovery	MK	23-AUG-99		6010
			FE(D)	105	%Recovery	MK	23-AUG-99		6010
			NO2/NO3	105	%Recovery	JN	13-AUG-99		353.2
			PB	99	%Recovery	KB	26-AUG-99		6020
			PB(D)	94	%Recovery	KB	27-AUG-99		6020
			SE	89	%Recovery	KB	26-AUG-99		6020
			SE(D)	100	%Recovery	KB	27-AUG-99		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990851

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID DAYS	METHOD
WG990851-6		Matrix Spike	SO4=	76	%Recovery	JN	06-AUG-99		9036
			ZN	85	%Recovery	MK	23-AUG-99		6010
			ZN(D)	100	%Recovery	KB	27-AUG-99		6020
WG990851-7		Prep Blank	AS	<.010	ppm	MK	23-AUG-99		6010
			AS(D)	<.010	ppm	MK	23-AUG-99		6010
			CA	<1.0	ppm	MK	23-AUG-99		6010
			CD	<.005	ppm	MK	23-AUG-99		6010
			CD(D)	<.005	ppm	MK	23-AUG-99		6010
			CL-	<1.0	ppm	JN	25-AUG-99		325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99		310.1
			COND.	<5.0	umhos/cm2	BD	09-AUG-99		120.1
			CR	<.010	ppm	MK	23-AUG-99		6010
			CR(D)	<.010	ppm	MK	23-AUG-99		6010
			CU	<.025	ppm	KB	26-AUG-99		6020
			CU(D)	<.025	ppm	KB	27-AUG-99		6020
			F-	<.050	ppm	BD	26-AUG-99		340.2
			FE	<.10	ppm	MK	23-AUG-99		6010
			FE(D)	<.10	ppm	MK	23-AUG-99		6010
			HCO3	<1.0	ppm CaCO3	DC	17-AUG-99		310.1
			K	<5.0	ppm	BD	10-SEP-99		6010
			MG	<1.0	ppm	MK	23-AUG-99		6010
			NA	<5.0	ppm	BD	10-SEP-99		6010
			NO2/NO3	<.050	ppm	JN	13-AUG-99		353.2
			PB	<.003	ppm	KB	26-AUG-99		6020
			PB(D)	<.003	ppm	KB	27-AUG-99		6020
			SE	<.005	ppm	KB	26-AUG-99		6020
			SE(D)	<.005	ppm	KB	27-AUG-99		6020
			SO4=	<2.0	ppm	JN	06-AUG-99		9036
			TDS	<10.	ppm	BD	09-AUG-99		160.1
			TSS	<1.0	ppm	DC	09-AUG-99		160.2
			ZN	<.020	ppm	MK	23-AUG-99		6010
			ZN(D)	<.020	ppm	KB	27-AUG-99		6020
WG990851-8		Lab Control Sample	AS	90	%Recovery	MK	23-AUG-99		6010
			AS(D)	97	%Recovery	MK	23-AUG-99		6010
			CA	102	%Recovery	MK	23-AUG-99		6010
			CD	95	%Recovery	MK	23-AUG-99		6010
			CD(D)	99	%Recovery	MK	23-AUG-99		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990851

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOUND	DMYS	METHOD
WG990851-8		Lab Control Sample								
			CL-	104	\$Recovery	JN	25-AUG-99	325.2		
			COND.	98	\$Recovery	BD	09-AUG-99	120.1		
			CR	100	\$Recovery	MK	23-AUG-99	6010		
			CR(D)	99	\$Recovery	MK	23-AUG-99	6010		
			CU	95	\$Recovery	KB	26-AUG-99	6020		
			CU(D)	101	\$Recovery	KB	27-AUG-99	6020		
			F-	97	\$Recovery	BD	26-AUG-99	340.2		
			FE	107	\$Recovery	MK	23-AUG-99	6010		
			FE(D)	109	\$Recovery	MK	23-AUG-99	6010		
			HCO3	95	\$Recovery	DC	17-AUG-99	310.1		
			K	106	\$Recovery	BD	10-SEP-99	6010		
			MG	102	\$Recovery	MK	23-AUG-99	6010		
			NA	98	\$Recovery	BD	10-SEP-99	6010		
			NO2/NO3	105	\$Recovery	JN	13-AUG-99	353.2		
			PB	99	\$Recovery	KB	26-AUG-99	6020		
			PB(D)	105	\$Recovery	KB	27-AUG-99	6020		
			SE	102	\$Recovery	KB	26-AUG-99	6020		
			SE(D)	110	\$Recovery	KB	27-AUG-99	6020		
			SO4=	106	\$Recovery	JN	06-AUG-99	9036		
			TDS	100	\$Recovery	BD	09-AUG-99	160.1		
			TSS	96	\$Recovery	DC	09-AUG-99	160.2		
			ZN	85	\$Recovery	MK	23-AUG-99	6010		
			ZN(D)	108	\$Recovery	KB	27-AUG-99	6020		
WG990851-9		Duplicate								
			AS	12	% RPD	MK	23-AUG-99	6010		
			AS(D)	<1	% RPD	MK	23-AUG-99	6010		
			CA	2.3	% RPD	MK	23-AUG-99	6010		
			CD	<1	% RPD	MK	23-AUG-99	6010		
			CD(D)	<1	% RPD	MK	23-AUG-99	6010		
			CL-	6.7	% RPD	JN	25-AUG-99	325.2		
			CO3	<1	% RPD	DC	17-AUG-99	310.1		
			COND.	<1	% RPD	BD	09-AUG-99	120.1		
			CR	+/-prdl	% RPD	MK	23-AUG-99	6010		
			CR(D)	<1	% RPD	MK	23-AUG-99	6010		
			CU	<1	% RPD	KB	26-AUG-99	6020		
			CU(D)	<1	% RPD	KB	27-AUG-99	6020		
			F-	3.1	% RPD	BD	26-AUG-99	340.2		
			FE	15	% RPD	MK	23-AUG-99	6010		
			FE(D)	<1	% RPD	MK	23-AUG-99	6010		

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: WG990851

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG990851-9		Duplicate							
			HCO3	1.1	% RPD	DC	17-AUG-99	310.1	
			K	6.3	% RPD	BD	10-SEP-99	6010	
			MG	1.7	% RPD	MK	23-AUG-99	6010	
			NA	2.7	% RPD	BD	10-SEP-99	6010	
			NO2/NO3	3.0	% RPD	JN	13-AUG-99	353.2	
			PB	<1	% RPD	KB	26-AUG-99	6020	
			PB (D)	<1	% RPD	KB	27-AUG-99	6020	
			SE	1.0	% RPD	KB	26-AUG-99	6020	
			SE (D)	<1	% RPD	KB	27-AUG-99	6020	
			SO4=	2.3	% RPD	JN	06-AUG-99	9036	
			TDS	1.5	% RPD	BD	09-AUG-99	160.1	
			TSS	2.3	% RPD	DC	09-AUG-99	160.2	
			ZN	<1	% RPD	MK	23-AUG-99	6010	
			ZN (D)	<1	% RPD	KB	27-AUG-99	6020	

Approved
Ken Bilak
 Reviewer

HYGIENICS, INC.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS							REMARKS	
0931 - ASARCO - EL PASO, TX														
SAMPLERS: (Signature)														
Douglas M. Solon														
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	TPH	REMARKS	
8-3-99	1345			EPR1-9908-127	X	X	X	X	X	X				
8-3-99	1420			EPR1-9908-132	X	X	X	X	X	X				
8-3-99	1450			EPR1-9908-130	X	X	X	X	X	X				
8-3-99	1520			EPR1-9908-131	X	X	X	X	X	X				
8-3-99	1600			EPR1-9908-128	X	X	X	X	X	X				
8-3-99	1700			EPR1-9908-195	X	X	X	X	X	X				
8-4-99	1020			EPR1-9908-134	X	X	X	X	X	X				
8-4-99	830			EPR1-9908-114	X	X	X	X	X	X				
8-4-99	900			EPR1-9908-124	X	X	X	X	X	X				
8-4-99	1100			EPR1-9908-121	X	X	X	X	X	X				
8-4-99	1340			EPR1-9908-119	X	X	X	X	X	X				
8-4-99	1345			EPR1-9908-196	X	X	X	X	X	X				
8-4-99	1420			EPR1-9908-122	X	X	X	X	X	X				
8-4-99	1500			EPR1-9908-111	X	X	X	X	X	X				
8-4-99	1615			EPR1-9908-197	X	X	X	X	X	X				
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS						
EPR1-9908-197		EPR1-9908-197		TSC- SALT LAKE CITY, UT				Other						
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)		Date/Time		8/6/99 9:30AM		<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter						
Relinquished (Signature)		Date/Time		8/6/99 9:30AM		<input type="checkbox"/> Other								
Relinquished (Signature)		Date/Time		8/6/99 9:30AM		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined								

— 3 —

PROJ. NO.	PROJECT NAME													
0931-ASARCO-EIPASO, TX SAMPLERS: (Signature) <i>Douglas M. Johnson</i>														
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CON-TAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	REMARKS
8/5/99	815			EPR1-9908-155	4	X	X	X		X				
	820			EPR1-9908-198	4	X	X	X		X				
	900			EPR1-9908-137	4	X	X	X		X				
	930			EPR1-9908-138	4	X	X	X		X				
	1000			EPR1-9908-135	4	X	X	X		X				
	1045			EPR1-9908-136	4	X	X	X		X				
	1300			EPR1-9908-199	4	X	X	X		X				
Relinquished (Signature)	Date/Time				Received by: (Signature)	Lab TSC	P.O. #	Shipped via: Bus, Fed Ex UPS Other Air Bill #						
(Signature) <i>[Signature]</i>	8/5/99 16:00					SALT LAKE CITY, UT								
Relinquished (Signature)	Date/Time				Received by: (Signature)	Remarks								
Relinquished (Signature)	Date/Time				Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time	Enclosed:		<input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other					
							Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		HFORM-1-					
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 ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	TPH
8/5/99	1330			EPR1-9908-156	X	X	X	X	X			
	1400			EPR1-9908-143	X	X	X	X	X			
	1430			EPR1-9908-154	X	X	X	X	X			
	1500			EPR1-9908-140	X	X	X	X	X			
	1530			EPR1-9908-120	X	X	X	X	X			
/												
Relinquished (Signature)					Received by: (Signature)		Lab TSC -		P.O. #		Shipped via: Bus, Fed Ex, UPS	
8/5/99 9:10:30							SALT LAKE CITY, UT				Other Air Bill #	
Relinquished (Signature)					Received by: (Signature)		Remarks					
8/5/99 9:30 AM												
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			
							9/3/99 9:30 AM		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: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-001 06-AUG-99 EPRI-9908-170									
			AS	.007	ppm	KB	30-AUG-99	180	6020
			AS (D)	.009	ppm	KB	31-AUG-99	180	6020
			CA	403.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD (D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL	3029.	ppm	JN	26-AUG-99	28	325.2
			CL3	<1.0	ppm	DC	17-AUG-99	310.1	
			COND.	10440.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR (D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99	180	6020
			CU (D)	<.025	ppm	KB	30-AUG-99	180	6020
			F-	1.3	ppm	BD	31-AUG-99	28	340.2
			FE	.18	ppm	MK	23-AUG-99	180	6010
			FE (D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	124.	ppm	DC	17-AUG-99	14	310.1
			K	35.	ppm	CaCO3	30-AUG-99	180	6010
			MG	188.	ppm	MK	30-AUG-99	180	6010
			NA	1443.	ppm	BD	10-SEP-99	180	6010
			NO2/NO3	.16	ppm	JN	12-AUG-99	28	353.2
			PB	.003	ppm	KB	31-AUG-99	180	6020
			PB (D)	<.003	ppm	KB	17-AUG-99	150.1	
			PH	7.9	ph	DC	30-AUG-99	180	6020
			SE	<.005	ppm	KB	31-AUG-99	180	6020
			SE (D)	<.005	ppm	KB	20-AUG-99	28	9036
			SO4=	463.	ppm	JN	11-AUG-99	7	160.1
			TDS	6683.	ppm	BD	12-AUG-99	160.2	
			TSS	3.0	ppm	DC	30-AUG-99	180	6020
			ZN	.022	ppm	KB	31-AUG-99	180	6020
			ZN (D)	.033	ppm	KB	30-AUG-99	180	6020
L991394-002 06-AUG-99 EPRI-9908-169									
			AS	1.9	ppm	KB	30-AUG-99	180	6020
			AS (D)	2.1	ppm	KB	31-AUG-99	180	6020
			CA	382.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD (D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL	366.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm	DC	17-AUG-99	310.1	
			COND.	5740.	umhos/cm2	BD	12-AUG-99	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

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Batch No: L991394

LAP NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	WORLD DAYS METHOD
L991394-002	06-AUG-99	EPRI-9908-169	CR	<.010	ppm	KB	30-AUG-99	180 6020
			CR (D)	<.010	ppm	MK	30-AUG-99	180 6010
			CU	.030	ppm	KB	30-AUG-99	6020
			CU (D)	<.025	ppm	KB	31-AUG-99	180 6020
			F-	1.5	ppm	BD	31-AUG-99	28 340.2
			FE	2.4	ppm	BD	23-AUG-99	180 6010
			FE (D)	<.10	ppm	MK	30-AUG-99	180 6010
			HCO3	238.	ppm	MK	17-AUG-99	14 310.1
			K	20.	ppm	DC	30-AUG-99	180 6010
			MG	123.	ppm	MK	30-AUG-99	180 6010
			NA	919.	ppm	MK	30-AUG-99	180 6010
			NO2/NO3	102.	ppm	MK	12-AUG-99	28 353.2
			PB	.013	ppm	JN	30-AUG-99	180 6020
			PB (D)	<.003	ppm	KB	31-AUG-99	180 6020
			PH	7.5	pH	DC	17-AUG-99	150.1
			SE	.11	ppm	KB	30-AUG-99	180 6020
			SE (D)	.12	ppm	KB	31-AUG-99	180 6020
			SO4=	2107.	ppm	JN	20-AUG-99	28 9036
			TDS	4758.	ppm	BD	11-AUG-99	7 160.1
			TSS	76.	ppm	DC	12-AUG-99	160.2
			ZN	.038	ppm	KB	30-AUG-99	180 6020
			ZN (D)	.034	ppm	KB	31-AUG-99	180 6020
			AS	2.3	ppm	KB	30-AUG-99	180 6020
			AS (D)	2.4	ppm	KB	31-AUG-99	180 6020
			CA	78.	ppm	MK	30-AUG-99	180 6010
			CD	.017	ppm	KB	30-AUG-99	180 6020
			CD (D)	.016	ppm	KB	31-AUG-99	180 6020
			CL-	296.	ppm	JN	26-AUG-99	28 325.2
			CO3	<1.0	ppm	DC	17-AUG-99	310.1
			COND.	2660.	umhos/cm2	BD	12-AUG-99	28 120.1
			CR	<.010	ppm	KB	30-AUG-99	180 6020
			CR (D)	<.010	ppm	MK	30-AUG-99	180 6010
			CU	<.025	ppm	KB	30-AUG-99	6020
			CU (D)	<.025	ppm	KB	31-AUG-99	180 6020
			F-	4.8	ppm	BD	31-AUG-99	28 340.2
			FE	.72	ppm	MK	23-AUG-99	180 6010
			FE (D)	.64	ppm	MK	30-AUG-99	180 6010
			HCO3	130.	ppm	DC	17-AUG-99	14 310.1

L991394-003 06-AUG-99 EPRI-9908-171

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Batch No: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-003	06-AUG-99	EPRI-9908-171	K	27.	ppm	MK	30-AUG-99	180	6010
			MG	16.	ppm	MK	30-AUG-99	180	6010
			NA	479.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	.36	ppm	JN	12-AUG-99	28	353.2
			FB	.003	ppm	KB	30-AUG-99	180	6020
			PB(D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.8	pH	DC	17-AUG-99	150.1	
			SE	.007	ppm	KB	30-AUG-99	180	6020
			SE(D)	.008	ppm	KB	31-AUG-99	180	6020
			SO4#	715.	ppm	JN	20-AUG-99	28	9036
			TDS	1786.	ppm	BD	11-AUG-99	7	160.1
			TSS	1.4	ppm	DC	12-AUG-99	160.2	
			ZN	.11	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.11	ppm	KB	31-AUG-99	180	6020
			AS	.033	ppm	KB	30-AUG-99	180	6020
			AS(D)	.042	ppm	KB	10-SEP-99	180	6020
			CA	102.	ppm	MK	30-AUG-99	180	6010
			CD	.007	ppm	KB	30-AUG-99	180	6020
			CD(D)	.007	ppm	KB	31-AUG-99	180	6020
			CL-	321.	ppm	JN	26-AUG-99	28	325.2
L991394-004	06-AUG-99	EPRI-9908-172	CO3	<1.0	ppm	DC	17-AUG-99	310.1	
			COND.	3640.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	MK	30-AUG-99	180	6020
			CR(D)	<.010	ppm	KB	30-AUG-99	180	6010
			CU	.067	ppm	KB	30-AUG-99	6020	
			CU(D)	.059	ppm	KB	31-AUG-99	180	6020
			F-	1.8	ppm	BD	31-AUG-99	28	340.2
			FE	<.10	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	255.	ppm	DC	17-AUG-99	14	310.1
			K	12.	ppm	MK	30-AUG-99	180	6010
			MG	60.	ppm	MK	30-AUG-99	180	6010
			NA	697.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	4.7	ppm	JN	12-AUG-99	28	353.2
			PB	.008	ppm	KB	30-AUG-99	180	6020
			PB(D)	.004	ppm	KB	31-AUG-99	180	6020
			PH	8.0	pH	DC	17-AUG-99	150.1	
			SE	.071	ppm	KB	30-AUG-99	180	6020

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Batch No: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DRY METHOD
L991394-004	06-AUG-99	EPRI-9908-172	SE(D)	.067	ppm	KB	10-SEP-99	180 6020
			SO4=	1121.	ppm	JN	20-AUG-99	28 9036
			TDS	2567.	ppm	BD	11-AUG-99	7 160.1
			TSS	2.4	ppm	DC	12-AUG-99	160.2
			ZN	.10	ppm	KB	30-AUG-99	180 6020
			ZN(D)	.10	ppm	KB	31-AUG-99	180 6020
			AS	.032	ppm	KB	30-AUG-99	180 6020
			AS(D)	.033	ppm	KB	31-AUG-99	180 6020
			CA	100.	ppm	MK	30-AUG-99	180 6010
			CD	.007	ppm	KB	30-AUG-99	180 6020
L991394-005	06-AUG-99	EPRI-9908-200	CD(D)	.007	ppm	KB	31-AUG-99	180 6020
			CL-	322.	ppm	JN	26-AUG-99	28 325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1
			COND.	3640.	umhos/cm2	BD	12-AUG-99	28 120.1
			CR	<.010	ppm	KB	30-AUG-99	180 6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180 6010
			CU	.065	ppm	KB	30-AUG-99	180 6020
			CU(D)	.060	ppm	KB	31-AUG-99	180 6020
			F-	1.8	ppm	BD	31-AUG-99	28 340.2
			FE	<.10	ppm	MK	23-AUG-99	180 6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180 6010
			HCO3	254.	ppm CaCO3	DC	17-AUG-99	14 310.1
			K	12.	ppm	MK	30-AUG-99	180 6010
			MG	60.	ppm	MK	30-AUG-99	180 6010
			NA	675.	ppm	MK	30-AUG-99	180 6010
			NO2/NO3	5.7	ppm	JN	13-AUG-99	28 353.2
			PB	.009	ppm	KB	30-AUG-99	180 6020
			PB(D)	.004	ppm	KB	31-AUG-99	180 6020
			PH	8.0	PH	DC	17-AUG-99	150.1
			SE	.070	ppm	KB	30-AUG-99	180 6020
L991394-006	06-AUG-99	EPRI-9908-200	SE(D)	.076	ppm	KB	31-AUG-99	180 6020
			SO4=	1221.	ppm	JN	20-AUG-99	28 9036
			TDS	2608.	ppm	BD	11-AUG-99	7 160.1
			TSS	2.6	ppm	DC	12-AUG-99	160.2
			ZN	.10	ppm	KB	30-AUG-99	180 6020
			ZN(D)	.099	ppm	KB	31-AUG-99	180 6020

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Batch No: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-006	06-AUG-99	EPRI-9908-173	AS	2.2	ppm	KB	30-AUG-99	180	6020
			AS(D)	2.4	ppm	KB	31-AUG-99	180	6020
			CA	142.	ppm	MK	30-AUG-99	180	6010
			CD	.073	ppm	KB	30-AUG-99	180	6020
			CD(D)	.023	ppm	KB	31-AUG-99	180	6020
			CL-	446.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm	DC	17-AUG-99	310.1	
			COND.	441.0	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	.018	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	.16	ppm	KB	30-AUG-99	180	6020
			CU(D)	.056	ppm	KB	31-AUG-99	180	6020
			F-	6.7	ppm	BD	31-AUG-99	28	340.2
			FE	1.4	ppm	MK	23-AUG-99	180	6010
			FE(D)	.17	ppm	MK	30-AUG-99	180	6010
			HCO3	235.	ppm	DC	17-AUG-99	14	310.1
			K	37.	ppm	MK	30-AUG-99	180	6010
			MG	27.	ppm	MK	30-AUG-99	180	6010
			NA	834.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	.23	ppm	JN	12-AUG-99	28	353.2
			PB	.63	ppm	KB	30-AUG-99	180	6020
			PB(D)	.034	ppm	KB	31-AUG-99	180	6020
			PH	7.7	pH	DC	17-AUG-99	150.1	
			SE	.037	ppm	KB	30-AUG-99	180	6020
			SE(D)	.030	ppm	KB	31-AUG-99	180	6020
			SO4=	1419.	ppm	JN	20-AUG-99	28	9036
			TDS	3121.	ppm	BD	11-AUG-99	7	160.1
			TSS	139.	ppm	DC	12-AUG-99	160.2	
			ZN	.31	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.073	ppm	KB	31-AUG-99	180	6020
L991394-007	06-AUG-99	EPRI-9908-141	AS	16.	ppm	KB	10-SEP-99	180	6020
			AS(D)	17.	ppm	KB	31-AUG-99	180	6020
			CA	380.	ppm	MK	30-AUG-99	180	6010
			CD	.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	.005	ppm	KB	31-AUG-99	180	6020
			CL-	192.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm	DC	17-AUG-99	310.1	
			COND.	16010.	umhos/cm2	BD	12-AUG-99	28	120.1

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Batch No: L991394

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-007	06-AUG-99	EPRI-9908-141	CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	.066	ppm	KB	30-AUG-99		6020
			CU(D)	.066	ppm	KB	31-AUG-99	180	6020
			F-	1.5	ppm	BD	31-AUG-99	28	340.2
			FE	.37	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	418.	ppm	DC	30-AUG-99	180	6010
			K	672.	ppm	DC	17-AUG-99	14	310.1
			MG	372.	ppm	BD	10-SEP-99	180	6010
			NA	3775.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	124.	ppm	BD	10-SEP-99	180	6010
			PB	.010	ppm	JN	12-AUG-99	28	353.2
			PB(D)	.003	ppm	KB	30-AUG-99	180	6020
			PH	7.2	ppm	KB	31-AUG-99	180	6020
			SE	3.6	pH	DC	17-AUG-99		150.1
			SE(D)	3.8	ppm	KB	30-AUG-99	180	6020
			SO4=	4626.	ppm	KB	10-SEP-99	180	6020
			TDS	14853.	ppm	JN	20-AUG-99	28	9036
			TSS	6.7	ppm	BD	11-AUG-99	7	160.1
			ZN	.094	ppm	DC	12-AUG-99		160.2
			ZN(D)	.11	ppm	KB	30-AUG-99	180	6020
					ppm	KB	31-AUG-99	180	6020
L991394-008	06-AUG-99	EPRI-9908-201	AS	<.005	ppm	KB	30-AUG-99	180	6020
			AS(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CA	<1.0	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	<1.0	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm	DC	17-AUG-99		310.1
			COND.	<5.0	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	KB	30-AUG-99	180	6010
			CU	<.025	ppm	MK	30-AUG-99	180	6020
			CU(D)	<.025	ppm	KB	30-AUG-99	180	6020
			F-	<.050	ppm	BD	31-AUG-99	180	6020
			FE	<1.0	ppm	BD	31-AUG-99	28	340.2
			FE(D)	<1.0	ppm	MK	23-AUG-99	180	6010
			HCO3	<1.0	ppm	MK	30-AUG-99	180	6010
					ppm	DC	17-AUG-99	14	310.1

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Batch No: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	ANALYSIS METHOD
L991394-008	06-AUG-99	EPRI-9908-201	K	<2.0	ppm	MK	30-AUG-99	180	6010
			MG	<1.0	ppm	MK	30-AUG-99	180	6010
			NA	<2.0	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	<.050	ppm	JN	13-AUG-99	28	353.2
			PB	<.003	ppm	KB	30-AUG-99	180	6020
			PB (D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	5.7	pH	DC	17-AUG-99	150.1	
			SE	<.005	ppm	KB	30-AUG-99	180	6020
			SE (D)	<.005	ppm	KB	31-AUG-99	180	6020
			SO4=	<2.0	ppm	JN	20-AUG-99	28	9036
			TDS	<10.	ppm	BD	11-AUG-99	7	160.1
			TSS	1.2	ppm	DC	12-AUG-99	160.2	
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN (D)	<.020	ppm	KB	31-AUG-99	180	6020
L991394-009	09-AUG-99	EPRI-9908-146	AS	.015	ppm	KB	30-AUG-99	180	6020
			AS (D)	.016	ppm	KB	31-AUG-99	180	6020
			CA	196.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD (D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	432.	ppm	JN	29-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1	
			COND.	5240.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR (D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99	6020	
			CU (D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	1.3	ppm	BD	31-AUG-99	28	340.2
			FE	.46	ppm	MK	23-AUG-99	180	6010
			FE (D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	418.	ppm CaCO3	DC	17-AUG-99	14	310.1
			K	20.	ppm	MK	30-AUG-99	180	6010
			MG	94.	ppm	MK	30-AUG-99	180	6010
			NA	961.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	.073	ppm	JN	13-AUG-99	28	353.2
			PB	<.003	ppm	KB	30-AUG-99	180	6020
			PB (D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.8	pH	DC	17-AUG-99	150.1	
			SE	<.005	ppm	KB	30-AUG-99	180	6020

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Batch No: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DTS	METHOD
L991394-009	09-AUG-99	EPRI-9908-146	SE(D)	.006	ppm	KB	31-AUG-99	180	6020
			SO4=	1991.	ppm	JN	20-AUG-99	28	9036
			TDS	3934.	ppm	BD	11-AUG-99	7	160.1
			TSS	18.	ppm	DC	12-AUG-99		160.2
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.027	ppm	KB	31-AUG-99	180	6020
			AS	.36	ppm	KB	30-AUG-99	180	6020
			AS(D)	.40	ppm	KB	10-SEP-99	180	6020
			CA	176.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	103.	ppm	JN	26-AUG-99	28	325.2
L991394-010	09-AUG-99	EPRI-9908-147	CO3	<1.0	ppm	DC	17-AUG-99		310.1
			COND.	2830.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99		6020
			CU(D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	2.1	ppm	BD	31-AUG-99	28	340.2
			FE	.15	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	381.	ppm	DC	17-AUG-99	14	310.1
			K	21.	ppm	MK	30-AUG-99	180	6010
			MG	77.	ppm	MK	30-AUG-99	180	6010
			NA	389.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	7.9	ppm	JN	12-AUG-99	28	353.2
			PB	.005	ppm	KB	30-AUG-99	180	6020
			PB(D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.7	pH	DC	17-AUG-99		150.1
			SE	.26	ppm	KB	30-AUG-99	180	6020
			SE(D)	.25	ppm	KB	10-SEP-99	180	6020
			SO4=	1011.	ppm	JN	20-AUG-99	28	9036
			TDS	2169.	ppm	BD	11-AUG-99	7	160.1
			TSS	6.0	ppm	DC	12-AUG-99		160.2
			ZN	.032	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.045	ppm	KB	31-AUG-99	180	6020

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Batch No: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	WTD	METHOD
L991394-011	09-AUG-99	EPRI-9908 151	AS	2.6	ppm	KB	30-AUG-99	180	6020
			AS(D)	2.8	ppm	KB	31-AUG-99	180	6020
			CA	105.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	224.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1	
			COND.	3200.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99	180	6020
			CU(D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	3.7	ppm	BD	31-AUG-99	28	340.2
			FE	<.10	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	281.	ppm CaCO3	DC	17-AUG-99	14	310.1
			K	29.	ppm	MK	30-AUG-99	180	6010
			MG	53.	ppm	MK	30-AUG-99	180	6010
			NA	524.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	6.7	ppm	JN	12-AUG-99	28	353.2
			PB	.015	ppm	KB	30-AUG-99	180	6020
			PB(D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.8	pH	DC	17-AUG-99	150.1	
			SE	.18	ppm	KB	30-AUG-99	180	6020
			SE(D)	.20	ppm	KB	31-AUG-99	180	6020
			SO4=	1119.	ppm	JN	20-AUG-99	28	9036
			TDS	2276.	ppm	BD	11-AUG-99	7	160.1
			TSS	2.7	ppm	DC	12-AUG-99	160.2	
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.020	ppm	KB	31-AUG-99	180	6020
L991394-012	09-AUG-99	EPRI-9908-202	AS	6.5	ppm	KB	30-AUG-99	180	6020
			AS(D)	2.8	ppm	KB	31-AUG-99	180	6020
			CA	107.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	216.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1	
			COND.	3150.	umhos/cm2	BD	12-AUG-99	28	120.1

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Batch No: L991394

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-012	09-AUG-99	EPRI-9908-202	CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR (D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99		6020
			CU (D)	<.025	ppm	KB	30-AUG-99	180	6020
			F-	3.7	ppm	BD	31-AUG-99	28	340.2
			FE	<.10	ppm	MK	23-AUG-99	180	6010
			FE (D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	276.	ppm	DC	17-AUG-99	14	310.1
			K	30.	ppm	CaCO3	30-AUG-99	180	6010
			MG	54.	ppm	MK	30-AUG-99	180	6010
			NA	542.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	7.7	ppm	JN	12-AUG-99	28	353.2
			PB	.004	ppm	KB	30-AUG-99	180	6020
			PB (D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.8	pH	DC	17-AUG-99		150.1
			SE	.46	ppm	KB	30-AUG-99	180	6020
			SE (D)	.20	ppm	KB	31-AUG-99	180	6020
			SO4=	1106.	ppm	JN	20-AUG-99	28	9036
			TDS	2282.	ppm	BD	11-AUG-99	7	160.1
			TSS	2.7	ppm	DC	12-AUG-99		160.2
			ZN	.023	ppm	KB	30-AUG-99	180	6020
			ZN (D)	<.020	ppm	KB	31-AUG-99	180	6020
L991394-013	09-AUG-99	EPRI-9908-152	AS	.007	ppm	KB	30-AUG-99	180	6020
			AS (D)	.008	ppm	KB	31-AUG-99	180	6020
			CA	42.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD (D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	228.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm	CaCO3	17-AUG-99		310.1
			COND.	2600.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR (D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99		6020
			CU (D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	2.7	ppm	BD	31-AUG-99	28	340.2
			FE	.41	ppm	MK	23-AUG-99	180	6010
			FE (D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	271.	ppm	CaCO3	17-AUG-99	14	310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-013	09-AUG-99	EPRI-9908-152	K	9.2	ppm	MK	30-AUG-99	180	6010
			MG	32.	ppm	MK	30-AUG-99	180	6010
			NA	490.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	5.8	ppm	JN	12-AUG-99	28	353.2
			PB	.004	ppm	KB	30-AUG-99	180	6020
			PB (D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	8.1	pH	DC	17-AUG-99		150.1
			SE	.030	ppm	KB	30-AUG-99	180	6020
			SE (D)	.034	ppm	KB	31-AUG-99	180	6020
			SO4=	652.	ppm	JN	20-AUG-99	28	9036
			TDS	1716.	ppm	BD	11-AUG-99	7	160.1
			TSS	15.	ppm	DC	12-AUG-99		160.2
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN (D)	<.020	ppm	KB	31-AUG-99	180	6020
			AS	.007	ppm	KB	30-AUG-99	180	6020
			AS (D)	.008	ppm	KB	31-AUG-99	180	6020
			CA	50.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD (D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	396.	ppm	JN	26-AUG-99	28	325.2
L991394-014	09-AUG-99	EPRI-9908-145	CO3	<1.0	ppm	DC	17-AUG-99		310.1
			COND.	4730.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR (D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99		6020
			CU (D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	4.6	ppm	KB	31-AUG-99	180	6020
			FE	.066	ppm	BD	31-AUG-99	28	340.2
			FE (D)	<.10	ppm	MK	23-AUG-99	180	6010
			HCO3	358.	ppm	MK	30-AUG-99	180	6010
			K	8.7	ppm	DC	17-AUG-99	14	310.1
			MG	62.	ppm	MK	30-AUG-99	180	6010
			NA	974.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	9.5	ppm	JN	12-AUG-99	28	353.2
			PB	<.003	ppm	KB	30-AUG-99	180	6020
			PB (D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	8.0	pH	DC	17-AUG-99		150.1
			SE	.12	ppm	KB	30-AUG-99	180	6020

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LAB NO	DATE COMPLETED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-014	09-AUG-99	EPRI-9908-145	SE(D)	.14	ppm	KB	31-AUG-99	180	6020
			SO4=	1509.	ppm	JN	20-AUG-99	28	9036
			TDS	3360.	ppm	BD	11-AUG-99	7	160.1
			TSS	6.3	ppm	DC	12-AUG-99		160.2
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN(D)	<.020	ppm	KB	31-AUG-99	180	6020
			AS	5.2	ppm	KB	30-AUG-99	180	6020
			AS(D)	5.9	ppm	KB	31-AUG-99	180	6020
			CA	31.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	117.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99		310.1
			COND.	2520.	umhos/cm2	BD	12-AUG-99	28	120.1
L991394-015	09-AUG-99	EPRI-9908-144	CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99		6020
			CU(D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	4.5	ppm	BD	31-AUG-99	28	340.2
			FE	.26	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	271.	ppm CaCO3	DC	17-AUG-99	14	310.1
			K	39.	ppm	MK	30-AUG-99	180	6010
			MG	18.	ppm	MK	30-AUG-99	180	6010
			NA	447.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	6.7	ppm	JN	12-AUG-99	28	353.2
			PB	.007	ppm	KB	30-AUG-99	180	6020
			PB(D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.8	pH	DC	17-AUG-99		150.1
			SE	.57	ppm	KB	30-AUG-99	180	6020
			SE(D)	.68	ppm	KB	31-AUG-99	180	6020
			SO4=	705.	ppm	JN	20-AUG-99	28	9036
			TDS	1664.	ppm	BD	11-AUG-99	7	160.1
			TSS	12.	ppm	DC	12-AUG-99		160.2
			ZN	.030	ppm	KB	30-AUG-99	180	6020
			ZN(D)	<.020	ppm	KB	31-AUG-99	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-016	09-AUG-99	EPRI-9908-148	AS	.009	ppm	KB	30-AUG-99	180	6020
			AS(D)	.010	ppm	KB	31-AUG-99	180	6020
			CA	118.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	367.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1	
			COND.	4490.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99	180	6020
			CU(D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	3.2	ppm	BD	31-AUG-99	28	340.2
			FE	.090	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	390.	ppm CaCO3	DC	17-AUG-99	14	310.1
			K	24.	ppm	MK	30-AUG-99	180	6010
			MG	69.	ppm	MK	30-AUG-99	180	6010
			NA	877.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	7.8	ppm	JN	12-AUG-99	28	353.2
			PB	<.003	ppm	KB	30-AUG-99	180	6020
			PS(D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.7	pH	DC	17-AUG-99	150.1	
			SE	.15	ppm	KB	30-AUG-99	180	6020
			SE(D)	.17	ppm	KB	31-AUG-99	180	6020
			SO4=	1478.	ppm	JN	20-AUG-99	28	9036
			TDS	3217.	ppm	BD	11-AUG-99	7	160.1
			TSS	7.2	ppm	DC	12-AUG-99	160.2	
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.022	ppm	KB	31-AUG-99	180	6020
L991394-017	09-AUG-99	EPRI-9908-150	AS	.095	ppm	KB	30-AUG-99	180	6020
			AS(D)	.097	ppm	KB	31-AUG-99	180	6020
			CA	126.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	157.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1	
			COND.	1838.	umhos/cm2	BD	12-AUG-99	28	120.1

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Batch No: L991394

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-017	09-AUG-99	EPRI-9908-150	CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	.025	ppm	KB	30-AUG-99		6020
			CU(D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	.90	ppm	BD	31-AUG-99	28	340.2
			FE	.11	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	188.	ppm	DC	17-AUG-99	14	310.1
			K	6.2	ppm	MK	30-AUG-99	180	6010
			MG	56.	ppm	MK	30-AUG-99	180	6010
			NA	195.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	6.0	ppm	JN	12-AUG-99	28	353.2
			PB	.025	ppm	KB	30-AUG-99	180	6020
			PB(D)	.008	ppm	KB	31-AUG-99	180	6020
			PH	7.9	pH	DC	17-AUG-99		150.1
			SE	.017	ppm	KB	30-AUG-99	180	6020
			SE(D)	.019	ppm	KB	31-AUG-99	180	6020
			SO4=	506.	ppm	JN	20-AUG-99	28	9036
			TDS	1288.	ppm	BD	11-AUG-99	7	160.1
			TSS	4.5	ppm	DC	12-AUG-99		160.2
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.025	ppm	KB	31-AUG-99	180	6020
L991394-018	09-AUG-99	EPRI-9908-149	AS	.005	ppm	KB	30-AUG-99	180	6020
			AS(D)	.006	ppm	KB	31-AUG-99	180	6020
			CA	71.	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	336.	ppm	JN	26-AUG-99	28	325.2
			CO3	<1.0	ppm	DC	17-AUG-99		310.1
			COND.	3870.	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99		6020
			CU(D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	3.1	ppm	BD	31-AUG-99	28	340.2
			FE	<.10	ppm	MK	23-AUG-99	180	6010
			FE(D)	<.10	ppm	MK	30-AUG-99	180	6010
			HCO3	290.	ppm	DC	17-AUG-99	14	310.1
					ppm	CaCO3			
					ppm				
					ppm				
					ppm				

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-018	09-AUG-99	EPRI-9908-149	K	10.	ppm	MK	30-AUG-99	180	6010
			MG	65.	ppm	MK	30-AUG-99	180	6010
			NA	717.	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	8.0	ppm	JN	30-AUG-99	28	353.2
			PB	<.003	ppm	KB	30-AUG-99	180	6020
			PB(D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	7.9	pH	DC	17-AUG-99		150.1
			SE	.042	ppm	KB	30-AUG-99	180	6020
			SE(D)	.047	ppm	KB	31-AUG-99	180	6020
			SO4=	1266.	ppm	JN	20-AUG-99	28	9036
			TDS	2725.	ppm	BD	11-AUG-99	7	160.1
			TSS	6.2	ppm	DC	12-AUG-99		160.2
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN(D)	.020	ppm	KB	31-AUG-99	180	6020
			AS	<.005	ppm	KB	30-AUG-99	180	6020
			AS(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CA	<1.0	ppm	MK	30-AUG-99	180	6010
			CD	<.005	ppm	KB	30-AUG-99	180	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	180	6020
			CL-	<1.0	ppm	JN	26-AUG-99	28	325.2
L991394-019	09-AUG-99	EPRI-9908-203	CO3	<1.0	ppm CaCO3	DC	17-AUG-99		310.1
			COND.	<5.0	umhos/cm2	BD	12-AUG-99	28	120.1
			CR	<.010	ppm	KB	30-AUG-99	180	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	180	6010
			CU	<.025	ppm	KB	30-AUG-99		6020
			CU(D)	<.025	ppm	KB	31-AUG-99	180	6020
			F-	<.050	ppm	BD	31-AUG-99	28	340.2
			FE	<1.0	ppm	MK	23-AUG-99	180	6010
			FE(D)	<1.0	ppm	MK	30-AUG-99	180	6010
			HCO3	<1.0	ppm CaCO3	DC	17-AUG-99	14	310.1
			K	<2.0	ppm	MK	30-AUG-99	180	6010
			MG	<1.0	ppm	MK	30-AUG-99	180	6010
			NA	<2.0	ppm	MK	30-AUG-99	180	6010
			NO2/NO3	<.050	ppm	JN	12-AUG-99	28	353.2
			PB	<.003	ppm	KB	30-AUG-99	180	6020
			PB(D)	<.003	ppm	KB	31-AUG-99	180	6020
			PH	6.1	pH	DC	17-AUG-99		150.1
			SE	<.005	ppm	KB	30-AUG-99	180	6020

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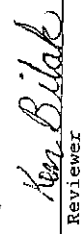
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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991394-019	09-AUG-99	EPRI-9908-203	SE(D)	<.005	ppm	KB	31-AUG-99	180	6020
			SO4=	<2.0	ppm	JN	20-AUG-99	28	9036
			IDS	<10.	ppm	BD	11-AUG-99	7	160.1
			TSS	1.8	ppm	DC	12-AUG-99		160.2
			ZN	<.020	ppm	KB	30-AUG-99	180	6020
			ZN(D)	<.020	ppm	KB	31-AUG-99	180	6020

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


 Approved


 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990865

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
WG990865-1		Matrix Spike						
			AS	98	%Recovery	KB	30-AUG-99	6020
			AS(D)	101	%Recovery	KB	31-AUG-99	6020
			CD	86	%Recovery	KB	30-AUG-99	6020
			CD(D)	86	%Recovery	KB	31-AUG-99	6020
			CL-	96	%Recovery	JN	26-AUG-99	325.2
			CR	87	%Recovery	KB	30-AUG-99	6020
			CR(D)	97	%Recovery	MK	30-AUG-99	6010
			CU	84	%Recovery	KB	30-AUG-99	6020
			CU(D)	86	%Recovery	KB	31-AUG-99	6020
			F-	97	%Recovery	ED	31-AUG-99	340.2
			FE	125	%Recovery	MK	23-AUG-99	6010
			FE(D)	101	%Recovery	MK	30-AUG-99	6010
			NO2/NO3	115	%Recovery	JN	12-AUG-99	353.2
			PB	91	%Recovery	KB	30-AUG-99	6020
			PB(D)	85	%Recovery	KB	31-AUG-99	6020
			SE	97	%Recovery	KB	30-AUG-99	6020
			SE(D)	100	%Recovery	KB	31-AUG-99	6020
			SO4=	114	%Recovery	JN	20-AUG-99	9036
			ZN	81	%Recovery	KB	30-AUG-99	6020
			ZN(D)	87	%Recovery	KB	31-AUG-99	6020
WG990865-2		Prep Blank						
			AS	<.005	ppm	KB	30-AUG-99	6020
			AS(D)	<.005	ppm	KB	31-AUG-99	6020
			CA	<1.0	ppm	MK	30-AUG-99	6010
			CD	<.005	ppm	KB	30-AUG-99	6020
			CD(D)	<.005	ppm	KB	31-AUG-99	6020
			CL-	<1.0	ppm	JN	26-AUG-99	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1
			COND.	<5.0	umhos/cm2	BD	12-AUG-99	120.1
			CR	<.010	ppm	KB	30-AUG-99	6020
			CR(D)	<.010	ppm	MK	30-AUG-99	6010
			CU	<.025	ppm	KB	30-AUG-99	6020
			CU(D)	<.025	ppm	KB	31-AUG-99	6020
			F-	<.050	ppm	BD	31-AUG-99	340.2
			FE	<1.0	ppm	MK	23-AUG-99	6010
			FE(D)	<1.0	ppm	MK	30-AUG-99	6010
			HCO3	<1.0	ppm CaCO3	DC	17-AUG-99	310.1
			K	<2.0	ppm	MK	30-AUG-99	6010
			MG	<1.0	ppm	MK	30-AUG-99	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990865

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG990865-2		Prep Blank	NA	<2.0	ppm	MK	30-AUG-99		6010
			NO2/NO3	<.050	ppm	JN	12-AUG-99		353.2
			PB	<.003	ppm	KB	30-AUG-99		6020
			PB(D)	<.003	ppm	KB	31-AUG-99		6020
			SE	<.005	ppm	KB	30-AUG-99		6020
			SE(D)	<.005	ppm	KB	31-AUG-99		6020
			SO4=	<2.0	ppm	JN	20-AUG-99		9036
			TDS	<10.	ppm	BD	11-AUG-99		160.1
			TSS	<1.0	ppm	DC	12-AUG-99		160.2
			ZN	<.020	ppm	KB	30-AUG-99		6020
			ZN(D)	<.020	ppm	KB	31-AUG-99		6020
			AS	100	%Recovery	KB	30-AUG-99		6020
			AS(D)	98	%Recovery	KB	31-AUG-99		6020
			CA	95	%Recovery	MK	30-AUG-99		6010
			CD	98	%Recovery	KB	30-AUG-99		6020
			CD(D)	98	%Recovery	KB	31-AUG-99		6020
WG990865-3		Lab Control Sample	CL-	98	%Recovery	JN	26-AUG-99		325.2
			COND.	98	%Recovery	BD	12-AUG-99		120.1
			CR	105	%Recovery	KB	30-AUG-99		6020
			CR(D)	97	%Recovery	MK	30-AUG-99		6010
			CU	98	%Recovery	KB	30-AUG-99		6020
			CU(D)	98	%Recovery	KB	31-AUG-99		6020
			F-	100	%Recovery	BD	31-AUG-99		340.2
			FE	114	%Recovery	MK	23-AUG-99		6010
			FE(D)	105	%Recovery	MK	30-AUG-99		6010
			HCO3	98	%Recovery	DC	17-AUG-99		310.1
			K	98	%Recovery	MK	30-AUG-99		6010
			MG	96	%Recovery	MK	30-AUG-99		6010
			NA	92	%Recovery	MK	30-AUG-99		6010
			NO2/NO3	110	%Recovery	JN	12-AUG-99		353.2
			PB	93	%Recovery	KB	30-AUG-99		6020
			PB(D)	98	%Recovery	KB	31-AUG-99		6020
			SE	102	%Recovery	KB	30-AUG-99		6020
			SE(D)	104	%Recovery	KB	31-AUG-99		6020
			SO4=	103	%Recovery	JN	20-AUG-99		9036
			TDS	98	%Recovery	BD	11-AUG-99		160.1
			TSS	98	%Recovery	DC	12-AUG-99		160.2
			ZN	110	%Recovery	KB	30-AUG-99		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990865

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DAYS METHOD
WG990865-3		Lab Control Sample						
WG990865-4		Duplicate	ZN(D)	101	% Recovery	KB	31-AUG-99	6020
			AS	<1	% RPD	KB	30-AUG-99	6020
			AS(D)	3.6	% RPD	KB	31-AUG-99	6020
			CA	<1	% RPD	MK	30-AUG-99	6010
			CD	<1	% RPD	KB	30-AUG-99	6020
			CD(D)	<1	% RPD	KB	31-AUG-99	6020
			CL-	4.6	% RPD	JN	26-AUG-99	325.2
			CO3	<1	% RPD	DC	17-AUG-99	310.1
			COND.	<1	% RPD	BD	12-AUG-99	120.1
			CR	<1	% RPD	KB	30-AUG-99	6020
			CR(D)	<1	% RPD	MK	30-AUG-99	6010
			CU	<1	% RPD	KB	30-AUG-99	6020
			CU(D)	<1	% RPD	KB	31-AUG-99	6020
			F-	7.7	% RPD	BD	31-AUG-99	340.2
			FE	<1	% RPD	MK	23-AUG-99	6010
			FE(D)	<1	% RPD	MK	30-AUG-99	6010
			HCO3	<1	% RPD	DC	17-AUG-99	310.1
			K	2.8	% RPD	MK	30-AUG-99	6010
			MG	<1	% RPD	MK	30-AUG-99	6010
			NA	2.2	% RPD	MK	30-AUG-99	6010
			NO2/NO3	6.7	% RPD	JN	12-AUG-99	353.2
			PB	+/-prdl	% RPD	KB	30-AUG-99	6020
			PB(D)	<1	% RPD	KB	31-AUG-99	6020
			SE	<1	% RPD	KB	31-AUG-99	6020
			SE(D)	<1	% RPD	KB	31-AUG-99	6020
			SO4=	6.1	% RPD	JN	20-AUG-99	9036
			TDS	+/-prdl	% RPD	BD	11-AUG-99	160.1
			TSS	13	% RPD	DC	12-AUG-99	160.2
			ZN	+/-prdl	% RPD	KB	30-AUG-99	6020
			ZN(D)	3.1	% RPD	KB	31-AUG-99	6020
WG990865-5		Practical Quantitation Limit	AS	.005	ppm			6020
			AS(D)	.005	ppm			6020
			CA	1.0	ppm			6010
			CD	.005	ppm			6020
			CD(D)	.005	ppm			6020
			CL-	1.0	ppm			325.2
			CO3	1.0	ppm CaCO3			310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990865

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DRYS METHOD
WG990865-5		Practical Quantitation Limit	COND.	5.0	umhos/cm2			120.1
			CR	.010	ppm			6020
			CR (D)	.010	ppm			6010
			CU	.025	ppm			6020
			CU (D)	.025	ppm			6020
			F-	.050	ppm			340.2
			FE	.10	ppm			6010
			FE (D)	.10	ppm			6010
			HCO3	1.0	ppm			310.1
			K	2.0	ppm			6010
			MG	1.0	ppm			6010
			NA	2.0	ppm			6010
			NO2/NO3	.050	ppm			353.2
			PB	.003	ppm			6020
			PB (D)	.003	ppm			6020
			SE	.005	ppm			6020
			SE (D)	.005	ppm			6020
			SO4	2.0	ppm			9036
			TDS	10.	ppm			160.1
			TSS	1.0	ppm			160.2
			ZN	.020	ppm			6020
			ZN (D)	.020	ppm			6020

[Signature]
Approved

[Signature]
Reviewer

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 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. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

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HFORM-1-1

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 CONTAINERS | | ANALYSIS | | | | | | | | | | REMARKS | |
|---|------|--------------|------|-------------------|---|----------------|---|--------------------------------|------------|----------------------------------|--|-----|-----|--|--|---------|--|
| 0931-ASARCO-E11ASD | | | | 4 | | COMMONS UF/RAW | NUTRIENTS UF/H ₂ SO ₄ | DISS. METAL F/HNO ₃ | CN UF/NaOH | TOTAL METALS UF/HNO ₃ | TOTAL RECOVERABLE METALS UF/HNO ₃ | BTX | TPH | | | | |
| DATE | TIME | COMP. | GRAB | SAMPLE NUMBER | | | | | | | | | | | | | |
| 8/9/99 | 950 | | | EPR1-9908-202 | 4 | X | X | X | X | X | | | | | | | |
| | 1015 | | | EPR1-9908-152 | 4 | X | X | X | X | X | | | | | | | |
| | 1045 | | | EPR1-9908-145 | 4 | X | X | X | X | X | | | | | | | |
| | 1115 | | | EPR1-9908-144 | 4 | X | X | X | X | X | | | | | | | |
| | 1145 | | | EPR1-9908-148 | 4 | X | X | X | X | X | | | | | | | |
| | 1315 | | | EPR1-9908-150 | 4 | X | X | X | X | X | | | | | | | |
| | 1400 | | | EPR1-9908-149 | 4 | X | X | X | X | X | | | | | | | |
| | 1450 | | | EPR1-9908-203 | 4 | X | X | X | X | X | | | | | | | |
| <div> <div>Relinquished (Signature)</div> <div>8/9/99</div> <div>Date/Time</div> </div> <div> <div>Received by: (Signature)</div> <div>SAITLAC City, UT</div> <div>Lab</div> </div> <div> <div>Relinquished (Signature)</div> <div>8/10/99</div> <div>Date/Time</div> </div> <div> <div>Received by: (Signature)</div> <div>8/10/99</div> <div>Date/Time</div> </div> | | | | | | | | | | | | | | | | | |
| <div> <div>Relinquished (Signature)</div> <div>8/10/99</div> <div>Date/Time</div> </div> <div> <div>Received by: (Signature)</div> <div>8/10/99</div> <div>Date/Time</div> </div> | | | | | | | | | | | | | | | | | |

Return results & electronic copy to:

Split Samples:

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

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

P.O. #

Remarks

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-001 | 10-AUG-99 | EPRI-9908-153 | AS | 0.027 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.029 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 77. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL | 15. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 666. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F | 0.64 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 3.0 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | <0.10 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 440 | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | <5. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 26. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 23. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.77 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | 0.007 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.8 | PH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4 | 48. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 405. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 458. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | ZN(D) | 0.032 | ppm | KPB | 08-SEP-99 | 180 | 6020 |
| L991431-002 | 10-AUG-99 | EPRI-9908-126 | AS | 4.0 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | AS(D) | 4.1 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CA | 531. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL | 990. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 11590. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | ANALYSIS METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|-----------------|
| L991431-002 | 10-AUG-99 | EPRI-9908-126 | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 5.7 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 2.1 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 1.7 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 1076. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | 203. | ppm | CaCO3 | 27-SEP-99 | 180 | 6010 |
| | | | MG | 226. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 1832. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.06 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 8.0 | pH | DC | 16-AUG-99 | 150.1 | |
| | | | SE | 0.037 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | 0.019 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 4036. | ppm | JN | 10-SEP-99 | 28 | 9036 |
| | | | TDS | 9236. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 39. | ppm | AKH | 16-AUG-99 | 160.2 | |
| | | | ZN | <0.020 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | <0.020 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| L991431-003 | 10-AUG-99 | EPRI-9908-129 | AS | 0.014 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.014 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 368. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 780. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | 8070. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | 0.020 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | 0.014 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 1.6 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 1.9 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 0.30 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 387. | ppm | DC | 16-AUG-99 | 14 | 310.1 |

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-003 | 10-AUG-99 | EPRI-9908-129 | K | 17. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 167. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 1357. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 82. | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.7 | pH | DC | 16-AUG-99 | 150.1 | |
| | | | SE | 0.31 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | 0.30 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 2802. | ppm | JN | 10-SEP-99 | 28 | 9036 |
| | | | TDS | 6549. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 65. | ppm | AKH | 16-AUG-99 | 160.2 | |
| | | | ZN | <0.020 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | <0.020 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | AS | 0.012 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.006 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 307. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 570. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| L991431-004 | 10-AUG-99 | EPRI-9908-133 | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | 6610. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 1.1 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 0.57 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 0.30 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 547. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | K | 20. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | MG | 132. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 1078. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 36. | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.8 | pH | DC | 16-AUG-99 | 150.1 | |
| | | | SE | 0.18 | ppm | KPB | 07-SEP-99 | 180 | 6020M |

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Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNIT'S | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-004 | 10-AUG-99 | EPRI-9908-133 | SE(D) | 0.17 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 2577. | ppm | JN | 10-SEP-99 | 28 | 9036 |
| | | | TDS | 5163. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 20. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | 0.021 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | AS | 0.012 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 304. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| L991431-005 | 10-AUG-99 | EPRI-9908-204 | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 651. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 6610. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 1.9 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 0.56 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 0.30 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 524. | ppm | MDK | 16-AUG-99 | 14 | 310.1 |
| | | | K | 21. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 131. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 1107. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 29. | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.7 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | 0.19 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | 0.17 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 2577. | ppm | JN | 10-SEP-99 | 28 | 9036 |
| | | | TDS | 5176. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 19. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | <0.020 | ppm | KPB | 08-SEP-99 | 180 | 6020 |

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Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-006 | 10-AUG-99 | EPRI-9908-125 | ZS | 0.29 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.25 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 85. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 206. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | 2670. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 0.92 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 3.1 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | FE(D) | 0.27 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 1060. | ppm CaCO3 | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | 20. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 79. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 391. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.14 | ppm | JN | 17-AUG-99 | 28 | 353.2 |
| | | | PB | 0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.6 | PH | DC | 16-AUG-99 | 150.1 | |
| | | | SE | 0.006 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 168. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 1745. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 39. | ppm | AKH | 16-AUG-99 | 160.2 | |
| | | | ZN | <0.020 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | <0.020 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| L991431-007 | 10-AUG-99 | EPRI-9908-205 | AS | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | <1. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | <1. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | <10 | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |

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Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|------|--------|
| L991431-007 | 10-AUG-99 | EPRI-9908-205 | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | <0.05 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | <0.10 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | <1. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | <5. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | <1. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | <5. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.05 | ppm | JN | 17-AUG-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 6.0 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 2.2 | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | <10. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | <1. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | 0.021 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| L991431-008 | 10-AUG-99 | EPRI-9908-109 | AS | 0.042 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.022 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 32. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 608. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 5140. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | 0.030 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 6.3 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 1.3 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 0.83 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 1730. | ppm | DC | 16-AUG-99 | 14 | 310.1 |

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El Paso

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Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|
| L991431-008 | 10-AUG-99 | EPRI-9908-109 | K | 282. | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | MG | 39. | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | NA | 805. | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | NO2/NO3 | 0.05 | ppm | JN | 17-AUG-99 | 28 353.2 |
| | | | PB | 0.016 | ppm | KPB | 07-SEP-99 | 180 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | PH | 8.0 | pH | DC | 16-AUG-99 | 150.1 |
| | | | SE | 0.017 | ppm | KPB | 07-SEP-99 | 180 6020M |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | SO4= | 88. | ppm | JN | 30-AUG-99 | 28 9036 |
| | | | TDS | 2974. | ppm | AKH | 16-AUG-99 | 7 160.1 |
| | | | TSS | 19. | ppm | AKH | 16-AUG-99 | 160.2 |
| | | | ZN | 0.079 | ppm | MDK | 27-AUG-99 | 180 6010 |
| | | | ZN(D) | 0.031 | ppm | MDK | 27-SEP-99 | 180 6010 |
| L991431-009 | 10-AUG-99 | EPRI-9908-112 | AS | 0.013 | ppm | KPB | 07-SEP-99 | 180 6020M |
| | | | AS(D) | 0.006 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | CA | 213. | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | CO(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | CL- | 1044. | ppm | JN | 24-AUG-99 | 28 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | 310.1 |
| | | | COND. | 5680. | umhos/cm2 | AKH | 16-AUG-99 | 28 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | 180 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | F- | 2.4 | ppm | VPK | 30-AUG-99 | 28 340.2 |
| | | | FE | 0.17 | ppm | MDK | 27-AUG-99 | 180 6010 |
| | | | FE(D) | <0.10 | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | HCO3 | 1130. | ppm | DC | 16-AUG-99 | 14 310.1 |
| | | | K | 30. | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | MG | 55. | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | NA | 894. | ppm | MDK | 27-SEP-99 | 180 6010 |
| | | | NO2/NO3 | 0.08 | ppm | JN | 17-AUG-99 | 28 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 6020M |
| | | | PH | 7.8 | pH | DC | 16-AUG-99 | 150.1 |
| | | | SE | <0.005 | ppm | KPB | 07-SEP-99 | 180 6020M |

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Batch No: L991431

| LAB NO | DATE
COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE
ANALYZED | HOLD
DAYS | METHOD |
|-------------|-------------------|---------------|-----------|--------|-----------|---------|------------------|--------------|--------|
| L991431-009 | 10-AUG-99 | EPRI-9908-112 | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 273. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 3538. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 23. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | <0.020 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | AS | 29. | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | AS(D) | 25. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CA | 502. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | 0.19 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 931. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 10470. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| L991431-010 | 10-AUG-99 | EPRI-9908-123 | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | 0.033 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 16. | ppm | VFK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 45. | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 35. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 711. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | 119. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 332. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 1441. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.09 | ppm | JN | 17-AUG-99 | 28 | 353.2 |
| | | | PB | 0.028 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 6.9 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | 0.052 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | 0.026 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 4066. | ppm | JN | 10-SEP-99 | 28 | 9036 |
| | | | TDS | 8634. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 362. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | 27. | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | ZN(D) | 12. | ppm | MDK | 27-SEP-99 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE | | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|-----------|-------|--------|
| | | | | | | | ANALYZED | RECD | |
| L991431-011 | 11-AUG-99 | EPRI-9908-113 | AS | 1.1 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.82 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 584. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 955. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | 7210. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 1.9 | ppm | VFK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 8.2 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 8.0 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 555. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | 555. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 68. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 706. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 1.0 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | 0.009 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.1 | pH | DC | 16-AUG-99 | 150.1 | |
| | | | SE | 0.15 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | 0.073 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4 | 1860. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 5465. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 378. | ppm | AKH | 16-AUG-99 | 160.2 | |
| | | | ZN | 0.033 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | ZN(D) | 0.024 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| L991431-012 | 11-AUG-99 | EPRI-9908-104 | AS | 2.0 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 1.7 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 360. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 425. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | 6110. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-012 | 11-AUG-99 | EPRI-9908-104 | CR | 0.010 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 0.78 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 1.4 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 0.75 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 940. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | 15. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 126. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 945. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 12. | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.6 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | 0.48 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | 0.20 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 1900. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 4756. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 36. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | ZN(D) | 0.024 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| L991431-013 | 11-AUG-99 | EPRI-9908-117 | AS | 0.32 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.33 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 354. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 1601. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 8070. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 2.3 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 1.7 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 1.8 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 659. | ppm | DC | 16-AUG-99 | 14 | 310.1 |

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-013 | 11-AUG-99 | EPRI-9908-117 | K | 47. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 129. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 1246. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 6.2 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.5 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | 0.27 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | 0.27 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 1790. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 5598. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 15. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | ZN(D) | <0.020 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| L991431-014 | 11-AUG-99 | EPRI-9908-206 | AS | 0.33 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | 0.32 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 371. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 1528. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 8060. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 2.3 | ppm | VFK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 1.7 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 1.7 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 656. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | K | 47. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | MG | 129. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 1266. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 6.9 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.5 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | 0.28 | ppm | KPB | 07-SEP-99 | 180 | 6020M |

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-014 | 11-AUG-99 | EPRI-9908-206 | SE(D) | 0.26 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 1774. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 5560. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 14. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | ZN(D) | 0.023 | ppm | KPB | 08-SEP-99 | 180 | 6020 |
| | | | AS | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | 221. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| L991431-015 | 11-AUG-99 | EPRI-9908-168 | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | 759. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 5610. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | 0.86 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | 0.23 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | 0.27 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | 180. | ppm CaCO3 | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | 28. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 127. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 839. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.05 | ppm | JN | 17-AUG-99 | 28 | 353.2 |
| | | | PB | 0.007 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 7.8 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 1858. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 4175. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 7.6 | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | 0.042 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | ZN(D) | 0.033 | ppm | KPB | 08-SEP-99 | 180 | 6020 |

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-016 | 11-AUG-99 | EPRI-9908-207 | AS | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CA | <1. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CL- | <1. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | <10. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | F- | <0.05 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | FE(D) | <0.10 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | HCO3 | <1. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | <5. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | <1. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | <5. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.05 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PH | 6.1 | PH | DC | 16-AUG-99 | 150.1 | |
| | | | SE | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SO4= | 1.2 | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | <10. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | <1. | ppm | AKH | 16-AUG-99 | 160.2 | |
| | | | ZN | <0.020 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | ZN(D) | 0.022 | ppm | KPB | 08-SEP-99 | 180 | 6020 |
| L991431-017 | 11-AUG-99 | EPRI-9908-174 | AS(D) | 0.42 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | AS(Tr) | 0.45 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | CA | 537. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD(D) | 18. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD(Tr) | 18. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CL- | 3406. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | 45400. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | ANALYSIS DATE | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991431-017 | 11-AUG-99 | EPRI-9908-174 | CR (D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CR (TR) | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU (D) | 1.5 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CU (TR) | 1.9 | ppm | MDK | 27-AUG-88 | 180 | 6010 |
| | | | F- | 35. | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE (D) | 0.11 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | FE (TR) | 0.53 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | HCO3 | 107. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | 409. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 329. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 13740. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 134. | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB (D) | 0.35 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PB (TR) | 0.46 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PH | 7.9 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE (D) | 2.1 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SE (TR) | 2.1 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | SO4= | 32369. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 49470. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 56. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN (D) | 9.8 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | ZN (TR) | 2.1 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| L991431-018 | 11-AUG-99 | EPRI-9908-176 | AS (D) | 0.40 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | AS (TR) | 0.40 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | CA | 97. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD (D) | 0.047 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD (TR) | 0.065 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CL- | 250. | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | 32. | ppm | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | 1773. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR (D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CR (TR) | <0.01 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU (D) | 0.25 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU (TR) | 0.56 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | F- | 1.6 | ppm | VPK | 30-AUG-99 | 28 | 340.2 |
| | | | FE (D) | <0.10 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | FE (TR) | 0.33 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | HCO3 | 92. | ppm | DC | 16-AUG-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| | | | | | | | | | |
| L991431-018 | 11-AUG-99 | EPRI-9908-176 | K | 11. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 18. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 218. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.08 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB(D) | 0.052 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.21 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PH | 8.8 | pH | DC | 16-AUG-99 | 150.1 | |
| | | | SE(D) | 0.022 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | SE(TR) | 0.024 | ppm | KPB | 07-SEP-99 | 6020M | |
| | | | SO4= | 377. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 1186. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 17. | ppm | AKH | 16-AUG-99 | 160.2 | |
| | | | ZN(D) | 0.092 | ppm | KPB | 08-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.34 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | AS(D) | 0.045 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | AS(TR) | 0.049 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CA | 15. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CL- | 1.1 | ppm | JN | 24-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | 160. | umhos/cm2 | AKH | 16-AUG-99 | 28 | 120.1 |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CR(TR) | <0.01 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | CU(D) | 0.065 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | CU(TR) | 0.31 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| L991431-019 | 11-AUG-99 | EPRI-9908-167 | F- | 0.28 | ppm | VPR | 30-AUG-99 | 28 | 340.2 |
| | | | FE(D) | 0.14 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | FE(TR) | 3.6 | ppm | MDK | 27-AUG-99 | 180 | 6010 |
| | | | HCO3 | 42. | ppm | DC | 16-AUG-99 | 14 | 310.1 |
| | | | K | <5. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | MG | 2.7 | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NA | 12. | ppm | MDK | 27-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.09 | ppm | JN | 16-AUG-99 | 28 | 353.2 |
| | | | PB(D) | 0.011 | ppm | KPB | 08-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.096 | ppm | KPB | 07-SEP-99 | 180 | 6020M |
| | | | PH | 7.8 | pH | DC | 16-AUG-99 | 150.1 | |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | 180 | 6020M |

ASARCO TECHNICAL SERVICES CENTER

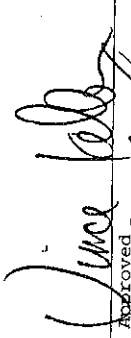

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991431

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-------|---------|---------------|-----------|--------|
| L991431-019 | 11-AUG-99 | EPRI-9908-167 | SE (TR) | <0.005 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | SO4= | 20. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 103. | ppm | AKH | 16-AUG-99 | 7 | 160.1 |
| | | | TSS | 53. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN (D) | 0.025 | ppm | KPB | 08-SEP-99 | 180 | 6020 |
| | | | ZN (TR) | 0.22 | ppm | MDK | 27-AUG-99 | 180 | 6010 |


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990830

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| | | | | | | | | | |
| WG990830-1 | | Matrix Spike | AS | SR>4SA | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | AS(D) | SR>4SA | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | AS(TR) | 93 | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | CD | 96 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CD(D) | 78 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CD(TR) | 96 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | CL- | 103 | %Recovery | JN | 24-AUG-99 | | 325.2 |
| | | | CR | 84 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | CR(D) | 92 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CR(TR) | 100 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | CU | 78 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | 106 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CU(TR) | 98 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | F- | 103 | %Recovery | VPK | 30-AUG-99 | | 340.2 |
| | | | FE | SR>4SA | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | FE(D) | SR>4SA | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | FE(TR) | 98 | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | NO2/NO3 | 113 | %Recovery | JN | 16-AUG-99 | | 353.2 |
| | | | PB | 91 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | PB(D) | 93 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | PB(TR) | 98 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | SE | 93 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | SE(D) | 85 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | SE(TR) | 89 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| WG990830-2 | | Prep Blank | SO4= | 96 | %Recovery | JN | 30-AUG-99 | | 9036 |
| | | | ZN | SR>4SA | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | ZN(D) | 89 | %Recovery | KPB | 08-SEP-99 | | 6020 |
| | | | ZN(TR) | 89 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | AS | <0.1 | ppm | MDK | 27-AUG-99 | | 6010 |
| | | | AS(D) | <0.1 | ppm | MDK | 27-SEP-99 | | 6010 |
| | | | AS(TR) | <0.1 | ppm | MDK | 27-AUG-99 | | 6010 |
| | | | CA | <1. | ppm | MDK | 27-SEP-99 | | 6010 |
| | | | CD | <0.005 | ppm | KPB | 08-SEP-99 | | 6020M |
| | | | CD(D) | <0.005 | ppm | KPB | 08-SEP-99 | | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CL- | <1. | ppm | JN | 24-AUG-99 | | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | | 310.1 |
| | | | COND. | <10. | umhos/cm2 | AKH | 16-AUG-99 | | 120.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990830

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| WG990830-2 | | Prep Blank | CR | <0.01 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CR(D) | <0.01 | ppm | KPB | 08-SEP-99 | | 6020M |
| | | | CR(TR) | <0.01 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 08-SEP-99 | | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | F- | <0.05 | ppm | VPK | 30-AUG-99 | | 340.2 |
| | | | FE | <0.10 | ppm | MDK | 27-AUG-99 | | 6010 |
| | | | FE(D) | <0.10 | ppm | MDK | 27-SEP-99 | | 6010 |
| | | | FE(TR) | 0.11 | ppm | MDK | 27-AUG-99 | | 6010 |
| | | | HCO3 | <1. | ppm CaCO3 | DC | 16-AUG-99 | | 310.1 |
| | | | K | <5. | ppm | MDK | 27-SEP-99 | | 6010 |
| | | | MG | <1. | ppm | MDK | 27-SEP-99 | | 6010 |
| | | | NA | <5. | ppm | MDK | 27-SEP-99 | | 6010 |
| | | | NO2/NO3 | <0.05 | ppm | JN | 16-AUG-99 | | 353.2 |
| | | | PB | <0.003 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | PB(D) | <0.003 | ppm | KPB | 08-SEP-99 | | 6020M |
| | | | PB(TR) | <0.003 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | PH | 5.5 | pH | DC | 16-AUG-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | SE(D) | <0.005 | ppm | KPB | 08-SEP-99 | | 6020M |
| | | | SE(TR) | <0.005 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | SO4= | <1. | ppm | JN | 30-AUG-99 | | 9036 |
| | | | TDS | <10. | ppm | AKH | 16-AUG-99 | | 160.1 |
| | | | TSS | <1. | ppm | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | 0.020 | ppm | KPB | 07-SEP-99 | | 6020M |
| | | | ZN(D) | <0.020 | ppm | KPB | 08-SEP-99 | | 6020 |
| | | | ZN(TR) | <0.020 | ppm | KPB | 07-SEP-99 | | 6020M |
| WG990830-3 | | Lab Control Sample | AS | 92 | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | AS(D) | 91 | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | AS(TR) | 91 | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | CA | 101 | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | CD | 93 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CD(D) | 93 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CD(TR) | 93 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | CL | 107 | %Recovery | JN | 24-AUG-99 | | 325.2 |
| | | | COND. | 99 | %Recovery | AKH | 16-AUG-99 | | 120.1 |
| | | | CR | 107 | %Recovery | KPB | 07-SEP-99 | | 6020M |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990830

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | SOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG990830-3 | | Lab Control Sample | CR (D) | 103 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CR (TR) | 102 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | CU | 102 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | CU (D) | 94 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | CU (TR) | 97 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | F- | 96 | %Recovery | VPK | 30-AUG-99 | 340.2 | |
| | | | FE | 109 | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | FE (D) | 112 | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | FE (TR) | 114 | %Recovery | MDK | 27-AUG-99 | | 6010 |
| | | | K | 96 | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | MG | 97. | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | NA | 95 | %Recovery | MDK | 27-SEP-99 | | 6010 |
| | | | NO2/NO3 | 110 | %Recovery | JN | 16-AUG-99 | 353.2 | |
| | | | PB | 98 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | PB (D) | 103 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | PB (TR) | 98 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | PH | 100 | %Recovery | DC | 16-AUG-99 | 150.1 | |
| | | | SE | 91 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | SE (D) | 90 | %Recovery | KPB | 08-SEP-99 | | 6020M |
| | | | SE (TR) | 91 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | SO4= | 96 | %Recovery | JN | 30-AUG-99 | 9036 | |
| | | | TDS | 96 | %Recovery | AKH | 16-AUG-99 | 160.1 | |
| | | | TSS | 96 | %Recovery | AKH | 16-AUG-99 | 160.2 | |
| | | | ZN | 103 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| | | | ZN (D) | 100 | %Recovery | KPB | 08-SEP-99 | | 6020 |
| | | | ZN (TR) | 103 | %Recovery | KPB | 07-SEP-99 | | 6020M |
| WG990830-4 | | Duplicate | AS | <1 | % RPD | MDK | 27-AUG-99 | | 6010 |
| | | | AS (D) | <1 | % RPD | MDK | 27-SEP-99 | | 6010 |
| | | | AS (TR) | 6.5 | % RPD | MDK | 27-AUG-99 | | 6010 |
| | | | CA | <1 | % RPD | MDK | 27-SEP-99 | | 6010 |
| | | | CD | <1 | % RPD | KPB | 08-SEP-99 | | 6020M |
| | | | CD (D) | <1 | % RPD | KPB | 08-SEP-99 | | 6020M |
| | | | CD (TR) | <1 | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | CL- | 1.8 | % RPD | JN | 24-AUG-99 | 325.2 | |
| | | | CO3 | <1 | % RPD | DC | 16-AUG-99 | 310.1 | |
| | | | COND. | <1 | % RPD | AKH | 16-AUG-99 | 120.1 | |
| | | | CR | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | CR (D) | <1. | % RPD | KPB | 08-SEP-99 | | 6020M |
| | | | | | | | | | |
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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990830

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|----------|-----------|---------|---------------|-----------|--------|
| WG990830-4 | | Duplicate | CR (TR) | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | CU | 4.9 | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | CU (D) | <1. | % RPD | KPB | 08-SEP-99 | | 6020M |
| | | | CU (TR) | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | F- | 9.2 | % RPD | VPK | 30-AUG-99 | | 340.2 |
| | | | FE | 26. | % RPD | MDK | 27-AUG-99 | | 6010 |
| | | | FE (D) | +/- CRDL | % RPD | MDK | 27-SEP-99 | | 6010 |
| | | | FE (TR) | 22. | % RPD | MDK | 27-AUG-99 | | 6010 |
| | | | HCO3 | <1. | % RPD | DC | 16-AUG-99 | | 310.1 |
| | | | K | <1. | % RPD | MDK | 27-SEP-99 | | 6010 |
| | | | MG | <1. | % RPD | MDK | 27-SEP-99 | | 6010 |
| | | | NA | 4.3 | % RPD | MDK | 27-SEP-99 | | 6010 |
| | | | NO2/NO3 | 16 | % RPD | JN | 16-AUG-99 | | 353.2 |
| | | | PB | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | PB (D) | <1. | % RPD | KPB | 08-SEP-99 | | 6020M |
| | | | PB (TR) | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | PH | <1. | % RPD | DC | 16-AUG-99 | | 150.1 |
| | | | SE | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | SE (D) | <1. | % RPD | KPB | 08-SEP-99 | | 6020M |
| | | | SE (TR) | 5.1 | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | SO4= | 16. | % RPD | JN | 30-AUG-99 | | 9036 |
| | | | TDS | <1 | % RPD | AKH | 16-AUG-99 | | 160.1 |
| | | | TSS | 1.5 | % RPD | AKH | 16-AUG-99 | | 160.2 |
| | | | ZN | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| WG990830-5 | | Practical Quantitation Limit | ZN (D) | <1. | % RPD | KPB | 08-SEP-99 | | 6020 |
| | | | ZN (TR) | <1. | % RPD | KPB | 07-SEP-99 | | 6020M |
| | | | AS | 0.1 | ppm | | | | 6010 |
| | | | AS (D) | 0.1 | ppm | | | | |
| | | | AS (TR) | 0.1 | ppm | | | | 6010 |
| | | | CA | 1.0 | ppm | | | | 6010 |
| | | | CD | 0.005 | ppm | | | | 6020M |
| | | | CD (D) | 0.005 | ppm | | | | 6020M |
| | | | CD (TR) | 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 |
| | | | CR (D) | 0.010 | ppm | | | | 6020M |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990830

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HAZARD DANG METHOD |
|------------|----------------|------------------------------|-----------|--------|-----------|---------|---------------|--------------------|
| WG990830-5 | | Practical Quantitation Limit | | | | | | |
| | | | CR (TR) | 0.010 | ppm | | | 6020M |
| | | | CU | 0.025 | ppm | | | 6020M |
| | | | CU (D) | 0.025 | ppm | | | 6020M |
| | | | CU (TR) | 0.025 | ppm | | | 6020M |
| | | | F- | 0.05 | ppm | | | 340.2 |
| | | | FE | 0.10 | ppm | | | 6010 |
| | | | FE (D) | 0.10 | ppm | | | 6010 |
| | | | FE (TR) | 0.10 | ppm | | | 6010 |
| | | | HCO3 | 1.0 | ppm | | | 6010 |
| | | | K | 5.0 | ppm | | | 310.1 |
| | | | MG | 1. | ppm | | | 6010 |
| | | | NA | 5.0 | ppm | | | 6010 |
| | | | NO2/NO3 | 0.05 | ppm | | | 353.2 |
| | | | PB | 0.003 | ppm | | | 6020M |
| | | | PB (D) | 0.003 | ppm | | | 6020M |
| | | | PB (TR) | 0.003 | ppm | | | 6020M |
| | | | SE | 0.005 | ppm | | | 6020M |
| | | | SE (D) | 0.005 | ppm | | | 6020M |
| | | | SE (TR) | 0.005 | ppm | | | 6020M |
| | | | SO4= | 1.0 | ppm | | | 9036 |
| | | | TDS | 10. | ppm | | | 160.1 |
| | | | TSS | 1.0 | ppm | | | 160.2 |
| | | | ZN | 0.020 | ppm | | | 6020M |
| | | | ZN (D) | 0.020 | ppm | | | 6020M |
| | | | ZN (TR) | 0.020 | ppm | | | 6020M |
| WG990830-6 | | Matrix Spike | AS | SR>4SA | %Recovery | KPB | 07-SEP-99 | 6020M |
| | | | AS (D) | SR>4SA | %Recovery | KPB | 08-SEP-99 | 6020M |
| | | | AS (TR) | 100 | %Recovery | KPB | 07-SEP-99 | 6020M |
| | | | CD (D) | 80 | %Recovery | MDK | 27-SEP-99 | 6010 |
| | | | CD (TR) | 84 | %Recovery | MDK | 27-SEP-99 | 6010 |
| | | | CU (D) | 110. | %Recovery | MDK | 27-SEP-99 | 6010 |
| | | | CU (TR) | 78 | %Recovery | MDK | 27-SEP-99 | 6010 |
| | | | FE (D) | 102 | %Recovery | MDK | 27-AUG-88 | 6010 |
| | | | ZN | SR>4SA | %Recovery | MDK | 27-AUG-99 | 6010 |
| | | | ZN (D) | SR>4SA | %Recovery | MDK | 27-SEP-99 | 6010 |
| | | | ZN (TR) | 85 | %Recovery | MDK | 27-AUG-99 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990830

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID | DAYS | METHOD |
|-------------|----------------|------------------------------|-----------|--------|------------|---------|---------------|------|------|--------|
| WG990830-7 | | Prep Blank | AS | <0.005 | ppm | KPB | 07-SEP-99 | | | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 08-SEP-99 | | | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 07-SEP-99 | | | 6020M |
| | | | CD(D) | <0.02 | ppm | MDK | 27-SEP-99 | | | 6010 |
| | | | CD(TR) | <0.02 | ppm | MDK | 27-SEP-99 | | | 6010 |
| | | | CU(D) | <0.025 | ppm | MDK | 27-SEP-99 | | | 6010 |
| | | | CU(TR) | <0.025 | ppm | MDK | 27-SEP-99 | | | 6010 |
| | | | ZN | 0.020 | ppm | MDK | 27-AUG-88 | | | 6010 |
| | | | ZN(D) | <0.020 | ppm | MDK | 27-AUG-88 | | | 6010 |
| | | | ZN(TR) | <0.020 | ppm | MDK | 27-SEP-99 | | | 6010 |
| | | | ZN(TR) | <0.020 | ppm | MDK | 27-AUG-99 | | | 6010 |
| | | | AS | 98 | % Recovery | KPB | 07-SEP-99 | | | 6020M |
| WG990830-8 | | Lab Control Sample | AS(D) | 98 | % Recovery | KPB | 08-SEP-99 | | | 6020M |
| | | | AS(TR) | 98 | % Recovery | KPB | 07-SEP-99 | | | 6020M |
| | | | CD(D) | 91 | % Recovery | MDK | 27-SEP-99 | | | 6010 |
| | | | CD(TR) | 94 | % Recovery | MDK | 27-SEP-99 | | | 6010 |
| | | | CU(D) | 96 | % Recovery | MDK | 27-SEP-99 | | | 6010 |
| | | | CU(TR) | 102 | % Recovery | MDK | 27-SEP-99 | | | 6010 |
| | | | ZN | 87 | % Recovery | MDK | 27-AUG-88 | | | 6010 |
| | | | ZN(D) | 89 | % Recovery | MDK | 27-AUG-88 | | | 6010 |
| | | | ZN(TR) | 89 | % Recovery | MDK | 27-SEP-99 | | | 6010 |
| | | | ZN(TR) | 89 | % Recovery | MDK | 27-AUG-99 | | | 6010 |
| | | | AS | 3.6 | % RPD | KPB | 07-SEP-99 | | | 6020M |
| | | | AS(D) | <1 | % RPD | KPB | 08-SEP-99 | | | 6020M |
| WG990830-9 | | Duplicate | AS(TR) | 2.6 | % RPD | KPB | 07-SEP-99 | | | 6020M |
| | | | CD(D) | <1 | % RPD | MDK | 27-SEP-99 | | | 6010 |
| | | | CD(TR) | <1 | % RPD | MDK | 27-SEP-99 | | | 6010 |
| | | | CU(D) | <1 | % RPD | MDK | 27-SEP-99 | | | 6010 |
| | | | CU(TR) | 4.9 | % RPD | MDK | 27-SEP-99 | | | 6010 |
| | | | ZN | 4.9 | % RPD | MDK | 27-AUG-88 | | | 6010 |
| | | | ZN(D) | <1 | % RPD | MDK | 27-AUG-88 | | | 6010 |
| | | | ZN(TR) | <1 | % RPD | MDK | 27-SEP-99 | | | 6010 |
| | | | ZN(TR) | <1 | % RPD | MDK | 27-AUG-99 | | | 6010 |
| | | | AS | 0.005 | ppm | | | | | 6020M |
| | | | AS(D) | 0.005 | ppm | | | | | 6020M |
| | | | AS(TR) | 0.005 | ppm | | | | | 6020M |
| WG990830-10 | | Practical Quantitation Limit | CD(D) | 0.02 | ppm | | | | | 6010 |
| | | | CD(TR) | 0.02 | ppm | | | | | 6010 |
| | | | CU(D) | 0.025 | ppm | | | | | 6010 |
| | | | CU(D) | 0.025 | ppm | | | | | 6010 |

ASARCO TECHNICAL SERVICES CENTER

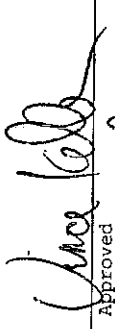

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990830

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DAYS ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|------------------------------|-----------|-------|-------|---------|---------------|-----------|--------|
| WG990830-10 | | Practical Quantitation Limit | CU (TR) | 0.025 | ppm | | | | 6010 |
| | | | ZN | 0.020 | ppm | | | | 6010 |
| | | | ZN (D) | 0.020 | ppm | | | | 6010 |
| | | | ZN (TR) | 0.020 | ppm | | | | 6010 |


 Approved

 Reviewer

CHAIN OF CUSTODY RECORD

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

| PROJ. NO. | | PROJECT NAME | | NO. OF CONTAINERS | | ANALYSIS | | | | | | | | REMARKS | |
|--|------|----------------------|------|---|--|--------------------|---|--------------------------------|------------|---|--|--|-----|-----------|--|
| 0931- | | ASARCO - EL PASO, TX | | 4 | | | | | | | | | | | |
| SAMPLERS: (Signature) | | | | | | | | | | | | | | | |
| Douglas M. Solon | | | | | | | | | | | | | | | |
| DATE | TIME | COMP | GRAB | SAMPLE NUMBER | | Commons UF/RAW | Nutrients UF/H ₂ SO ₄ | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | Total Recoverable Metals UF/HNO ₃ | BTEX | TPH | REMARKS | |
| 8-10-99 | 815 | | | EPR1-9908-153 | | X | X | X | X | X | X | | | | |
| | 920 | | | EPR1-9908-126 | | X | X | X | X | X | X | | | | |
| | 945 | | | EPR1-9908-129 | | X | X | X | X | X | X | | | | |
| | 1015 | | | EPR1-9908-133 | | X | X | X | X | X | X | | | | |
| | 1020 | | | EPR1-9908-204 | | X | X | X | X | X | X | | | | |
| | 1100 | | | EPR1-9908-125 | | X | X | X | X | X | X | | | | |
| | 1200 | | | EPR1-9908-205 | | X | X | X | X | X | X | | | | |
| | 1400 | | | EPR1-9908-109 | | X | X | X | X | X | X | | | | |
| | 1430 | | | EPR1-9908-112 | | X | X | X | X | X | X | | | | |
| | 1600 | | | EPR1-9908-123 | | X | X | X | X | X | X | | | | |
| 8-11-99 | 800 | | | EPR1-9908-113 | | X | X | X | X | X | X | | | | |
| | 900 | | | EPR1-9908-104 | | X | X | X | X | X | X | | | | |
| | 945 | | | EPR1-9908-117 | | X | X | X | X | X | X | | | | |
| | 950 | | | EPR1-9908-206 | | X | X | X | X | X | X | | | | |
| | 1015 | | | EPR1-9908-168 | | X | X | X | X | X | X | | | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Lab | | P.O. # | | Shipped via: Bus, Fed Ex, UPS | | | | | |
| [Signature] | | 8/12/99 1600 | | [Signature] | | TSC - | | | | Other | | | | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Remarks | | | | Air Bill # | | | | | |
| [Signature] | | | | [Signature] | | SALT LAKE CITY, UT | | | | | | | | | |
| Relinquished (Signature) | | Date/Time | | Received for Laboratory by: (Signature) | | Date/Time | | | | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits | | | | | |
| [Signature] | | | | [Signature] | | 8-13-99 1030 | | | | <input type="checkbox"/> QA/QC standard mixing instructions | | <input checked="" type="checkbox"/> Cover letter | | | |
| Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined | | | | | | | | | | | | | | Signature | |

[illegible][illegible]

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991508

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|-------|-------|---------|---------------|-----------|--------|
| L991508-001 | 20-AUG-99 | EPRI-9908-188 | 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 | 37 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | FE | 2.0 | % | LCS | 15-SEP-99 | | EDXRF |
| | | | PB | 31 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | SE | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | ZN | 46 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | AS | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | CD | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| L991508-002 | 20-AUG-99 | EPRI-9908-181 | 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 | 28 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | SE | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | ZN | 26 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | AS | 17 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | CD | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | CR | <80 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | CU | 67 | ppm | LCS | 15-SEP-99 | | EDXRF |
| L991508-003 | 20-AUG-99 | EPRI-9908-187 | FE | 2.3 | % | LCS | 15-SEP-99 | | EDXRF |
| | | | PB | 24 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | SE | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | ZN | 54 | 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 | 98 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | FE | 2.5 | % | LCS | 15-SEP-99 | | EDXRF |
| | | | PB | 40 | ppm | LCS | 15-SEP-99 | | EDXRF |
| L991508-004 | 20-AUG-99 | EPRI-9908-186 | SE | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | ZN | 47 | 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 | 98 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | FE | 2.5 | % | LCS | 15-SEP-99 | | EDXRF |
| | | | PB | 40 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | SE | <10 | ppm | LCS | 15-SEP-99 | | EDXRF |
| | | | ZN | 47 | ppm | LCS | 15-SEP-99 | | EDXRF |
| L991508-005 | 20-AUG-99 | EPRI-9908-185 | 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: L991508

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID |
|-------------|----------------|---------------|-----------|-------|-------|---------|---------------|-------|
| L991508-005 | 20-AUG-99 | EPRI-9908-185 | CU | <20 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | FE | 2.3 | % | LCS | 15-SEP-99 | EDXRF |
| | | | PB | 21 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | SE | <10 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | ZN | 42 | ppm | LCS | 15-SEP-99 | EDXRF |
| L991508-006 | 20-AUG-99 | EPRI-9908-184 | 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 | 69 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | FE | 2.1 | % | LCS | 15-SEP-99 | EDXRF |
| | | | PB | 29 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | SE | <10 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | ZN | 53 | ppm | LCS | 15-SEP-99 | EDXRF |
| L991508-007 | 20-AUG-99 | EPRI-9908-179 | AS | <10 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | CD | 12 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | CR | <80 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | CU | 110 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | FE | 1.8 | % | LCS | 15-SEP-99 | EDXRF |
| | | | PB | 160 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | SE | <10 | ppm | LCS | 15-SEP-99 | EDXRF |
| | | | ZN | 67 | ppm | LCS | 15-SEP-99 | EDXRF |



Approved


Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991509-001 | 20-AUG-99 | EPRI-9908-161 | AS (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 60. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 64. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | 10. | ppm | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 894. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR (D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR (TR) | 0.011 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU (D) | <0.025 | ppm | KPB | 15-SEP-99 | 14 | 6020M |
| | | | CU (TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.64 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE (D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE (TR) | 14. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 178. | ppm | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | 7.3 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 101. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.52 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB (D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB (TR) | 0.009 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.4 | pH | DC | 02-SEP-99 | | 150.1 |
| | | | SE (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE (TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 166. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 603. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 565. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN (D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN (TR) | 0.034 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| L991509-002 | 20-AUG-99 | EPRI-9908-157 | AS (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 59. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 76. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 918. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991509-002 | 20-AUG-99 | EPRI-9908-157 | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR(TR) | 0.011 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.64 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE(D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE(TR) | 14. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 198. | ppm | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | 6.9 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 102. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.58 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | PB(D) | <0.003 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(TR) | 0.008 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.3 | pH | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE(D) | <0.005 | ppm | DC | 02-SEP-99 | | 150.1 |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SO4= | 196. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 572. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 522. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.037 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| L991509-003 | 20-AUG-99 | EPRI-9908-159 | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 60. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 76. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 915. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR(TR) | 0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.64 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE(D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE(TR) | 14. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 206. | ppm | DC | 02-SEP-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991509-003 | 20-AUG-99 | EPRI-9908-159 | K | 7.1 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 104. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.57 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.008 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.3 | PH | DC | 02-SEP-99 | 150.1 | |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 6020M | |
| | | | SO4= | 197. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 582. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 522. | ppm | AKH | 25-AUG-99 | 160.2 | |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.032 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 59. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 73. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| L991509-004 | 20-AUG-99 | EPRI-9908-177 | CO3 | <1. | ppm | DC | 02-SEP-99 | 310.1 | |
| | | | COND. | 915. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR(TR) | 0.011 | ppm | KPB | 15-SEP-99 | 6020M | |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.66 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE(D) | 0.46 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE(TR) | 15. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 205. | ppm | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | 7.2 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 102. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.57 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.009 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.2 | PH | DC | 02-SEP-99 | 150.1 | |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991509-004 | 20-AUG-99 | EPRI-9908-177 | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 191. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 566. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 521. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.039 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 61. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| L991509-005 | 20-AUG-99 | EPRI-9908-208 | CD (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL | 70. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | 22. | ppm CaCO3 | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 915. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR (TR) | 0.011 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU (TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.66 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE(D) | 0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE (TR) | 15. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 175. | ppm CaCO3 | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | 7.1 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 102. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.57 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB (TR) | 0.008 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.6 | pH | DC | 02-SEP-99 | | 150.1 |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE (TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 188. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 594. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 488. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN (TR) | 0.038 | ppm | KPB | 15-SEP-99 | 180 | 6020M |

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Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|--------|
| L991509-006 | 20-AUG-99 | EPRI-9908-209 | AS (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | <1. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | <1. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 02-SEP-99 | 310.1 | |
| | | | COND. | <10. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR (D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR (TR) | <0.01 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU (D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU (TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | <0.1 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE (D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE (TR) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | <1. | ppm CaCO3 | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | <5. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | <1. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.1 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB (D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB (TR) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 5.7 | pH | DC | 02-SEP-99 | | 150.1 |
| | | | SE (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE (TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | <1. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| L991509-007 | 20-AUG-99 | EPRI-9908-162 | TDS | <10. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | <1. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN (D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN (TR) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS (TR) | 0.006 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 63. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 150. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 1303. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |

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Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|
| L991509-007 | 20-AUG-99 | EPRI-9908-162 | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 |
| | | | CR(TR) | <0.01 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | F- | 0.74 | ppm | VPK | 01-SEP-99 | 28 |
| | | | FE(D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 |
| | | | FE(TR) | 8.1 | ppm | MDK | 08-SEP-99 | 6010 |
| | | | HCO3 | 177. | ppm | DC | 02-SEP-99 | 14 |
| | | | K | 8.5 | ppm | MDK | 08-SEP-99 | 180 |
| | | | MG | 13. | ppm | MDK | 08-SEP-99 | 6010 |
| | | | NA | 176. | ppm | MDK | 08-SEP-99 | 180 |
| | | | NO2/NO3 | 3.5 | ppm | JN | 15-SEP-99 | 28 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 |
| | | | PB(TR) | 0.007 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | PH | 8.3 | pH | DC | 02-SEP-99 | 150.1 |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | SO4= | 268. | ppm | JN | 30-AUG-99 | 28 |
| | | | TDS | 836. | ppm | AKH | 25-AUG-99 | 7 |
| | | | TSS | 485. | ppm | AKH | 25-AUG-99 | 160.1 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 |
| | | | ZN(TR) | 0.040 | ppm | KPB | 15-SEP-99 | 6020M |
| L991509-008 | 20-AUG-99 | EPRI-9908-158 | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | CA | 58. | ppm | MDK | 08-SEP-99 | 180 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 |
| | | | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | CL- | 77. | ppm | JN | 26-AUG-99 | 28 |
| | | | CO3 | <1. | ppm | DC | 02-SEP-99 | 310.1 |
| | | | COND. | 887. | unhos/cm2 | AKH | 25-AUG-99 | 28 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 |
| | | | CR(TR) | 0.010 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | F- | 0.64 | ppm | VPK | 01-SEP-99 | 28 |
| | | | FE(D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 |
| | | | FE(TR) | 13. | ppm | MDK | 08-SEP-99 | 6010 |
| | | | HCO3 | 192. | ppm | DC | 02-SEP-99 | 14 |

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Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991509-008 | 20-AUG-99 | EPRI-9908-158 | K | 7.0 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 97. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.45 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.009 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.3 | pH | DC | 02-SEP-99 | | 150.1 |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 185. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 556. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 339. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.033 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 59. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 74. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| L991509-009 | 20-AUG-99 | EPRI-9908-160 | CO3 | 26. | ppm | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 898. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR(TR) | 0.010 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.66 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE(D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE(TR) | 13. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 179. | ppm | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | 7.1 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 98. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.54 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.009 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.6 | pH | DC | 02-SEP-99 | | 150.1 |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |

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Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FIELD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|------------|--------|
| L991509-009 | 20-AUG-99 | EPRI-9908-160 | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SO4= | 188. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 588. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 475. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | 0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.033 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 58. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| L991509-010 | 20-AUG-99 | EPRI-9908-166 | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL | 67. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 889. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR(TR) | 0.010 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.66 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE(D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE(TR) | 13. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 180. | ppm | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | 7.1 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 99. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.50 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.008 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.3 | pH | DC | 02-SEP-99 | | 150.1 |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 182. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 614. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 455. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.042 | ppm | KPB | 15-SEP-99 | 180 | 6020M |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991509-011 | 20-AUG-99 | EPRI-9908-165 | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 62. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 69. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 02-SEP-99 | 310.1 | |
| | | | COND. | 902. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR(TR) | 0.011 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.66 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE(D) | 0.18 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE(TR) | 13. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 194. | ppm CaCO3 | DC | 02-SEP-99 | 14 | 310.1 |
| | | | K | 7.2 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 13. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 97. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.53 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.009 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.3 | pH | DC | 02-SEP-99 | 150.1 | |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 195. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 597. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 476. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | 0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.036 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| L991509-012 | 20-AUG-99 | EPRI-9908-164 | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 63. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 69. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm CaCO3 | DC | 02-SEP-99 | 310.1 | |
| | | | COND. | 895. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991509-012 | 20-AUG-99 | EPRI-9908-164 | CR (D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR (TR) | 0.010 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU (D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU (TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.64 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE (D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE (TR) | 14. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 200. | ppm | CaCO3 | 02-SEP-99 | 14 | 310.1 |
| | | | K | 7.3 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | Mg | 13. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 100. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.51 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB (D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB (TR) | 0.009 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.3 | pH | DC | 02-SEP-99 | | 150.1 |
| | | | SE (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE (TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 191. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 581. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 500. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN (D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN (TR) | 0.031 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| L991509-013 | 20-AUG-99 | EPRI-9908-163 | AS (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | AS (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CA | 62. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | CD (D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CD (TR) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CL- | 67. | ppm | JN | 26-AUG-99 | 28 | 325.2 |
| | | | CO3 | <1. | ppm-CaCO3 | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | 882. | umhos/cm2 | AKH | 25-AUG-99 | 28 | 120.1 |
| | | | CR (D) | <0.010 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CR (TR) | 0.012 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU (D) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | CU (TR) | <0.025 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | F- | 0.68 | ppm | VPK | 01-SEP-99 | 28 | 340.2 |
| | | | FE (D) | <0.10 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | FE (TR) | 15. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | HCO3 | 196. | ppm | CaCO3 | 02-SEP-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991509

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-------|---------|---------------|-----------|--------|
| L991509-013 | 20-AUG-99 | EPRI-9908-163 | K | 7.2 | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | MG | 12. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NA | 99. | ppm | MDK | 08-SEP-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.53 | ppm | JN | 15-SEP-99 | 28 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PB(TR) | 0.008 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | PH | 8.2 | pH | DC | 02-SEP-99 | 150.1 | |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 180 | 6020M |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 6020M | |
| | | | SO4= | 180. | ppm | JN | 30-AUG-99 | 28 | 9036 |
| | | | TDS | 592. | ppm | AKH | 25-AUG-99 | 7 | 160.1 |
| | | | TSS | 481. | ppm | AKH | 25-AUG-99 | | 160.2 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 180 | 6020 |
| | | | ZN(TR) | 0.051 | ppm | KPB | 15-SEP-99 | 180 | 6020M |


Approved


Reviewer

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

(Project)

Batch No: WG990861

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------|-----------|--------|------------|---------|---------------|-----------|--------|
| WG990861-1 | | Matrix Spike | AS(D) | 90 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | AS(TR) | 94 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | CD(D) | 102 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | CD(TR) | 98 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | CL- | 89 | \$Recovery | JN | 26-AUG-99 | | 325.2 |
| | | | CR(D) | 102 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | CR(TR) | 107 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | 87 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | CU(TR) | 92 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | F- | 100 | \$Recovery | VPK | 01-SEP-99 | | 340.2 |
| | | | FE(D) | 107 | \$Recovery | MDK | 08-SEP-99 | | 6010 |
| | | | FE(TR) | SR>4SA | \$Recovery | MDK | 08-SEP-99 | | 6010 |
| | | | NO2/NO3 | 90 | \$Recovery | JN | 15-SEP-99 | | 353.2 |
| | | | PB(D) | 98 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | PB(TR) | 100 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | SE(D) | 80 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | SE(TR) | 90 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | 110 | \$Recovery | JN | 30-AUG-99 | | 9036 |
| | | | ZN(D) | 78 | \$Recovery | KPB | 15-SEP-99 | | 6020 |
| | | | ZN(TR) | 93 | \$Recovery | KPB | 15-SEP-99 | | 6020M |
| WG990861-2 | | Prep Blank | AS(D) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | AS(TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CA | <1. | ppm | MDK | 08-SEP-99 | | 6010 |
| | | | CD(D) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CD(TR) | <0.005 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CL- | <1. | ppm | JN | 26-AUG-99 | | 325.2 |
| | | | CO3 | <1. | ppm | CaCO3 | 02-SEP-99 | | 310.1 |
| | | | COND. | <10. | umhos/cm2 | AKH | 25-AUG-99 | | 120.1 |
| | | | CR(D) | <0.010 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CR(TR) | <0.01 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | <0.025 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | CU(TR) | <0.025 | ppm | KPB | 15-SEP-99 | | 6020M |
| | | | F- | <0.1 | ppm | VPK | 01-SEP-99 | | 340.2 |
| | | | FE(D) | <0.10 | ppm | MDK | 08-SEP-99 | | 6010 |
| | | | FE(TR) | <0.10 | ppm | MDK | 08-SEP-99 | | 6010 |
| | | | HCO3 | <1. | ppm | CaCO3 | 02-SEP-99 | | 310.1 |
| | | | K | <5. | ppm | MDK | 08-SEP-99 | | 6010 |
| | | | MG | <1. | ppm | MDK | 08-SEP-99 | | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

(Project)

Batch No: W9990861

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD |
|------------|----------------|--------------------|-----------|--------|-----------|---------|---------------|-------|
| W9990861-2 | | Prep Blank | NA | <5.0 | ppm | MDK | 08-SEP-99 | 6010 |
| | | | NO2/NO3 | <0.1 | ppm | JN | 15-SEP-99 | 353.2 |
| | | | PB(D) | <0.003 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | PB(TR) | <0.003 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | PH | 5.5 | pH | DC | 02-SEP-99 | 150.1 |
| | | | SE(D) | <0.005 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | SE(TR) | <0.005 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | SO4= | <1. | ppm | JN | 30-AUG-99 | 9036 |
| | | | TDS | <10. | ppm | AKH | 25-AUG-99 | 160.1 |
| | | | TSS | <1. | ppm | AKH | 25-AUG-99 | 160.2 |
| | | | ZN(D) | <0.020 | ppm | KPB | 15-SEP-99 | 6020 |
| | | | ZN(TR) | <0.020 | ppm | KPB | 15-SEP-99 | 6020M |
| | | | AS(D) | 89 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | AS(TR) | 91 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | CA | 114 | %Recovery | MDK | 08-SEP-99 | 6010 |
| | | | CD(D) | 96 | %Recovery | KPB | 15-SEP-99 | 6020M |
| W9990861-3 | | Lab Control Sample | CD(TR) | 95 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | CL- | 95 | %Recovery | JN | 26-AUG-99 | 325.2 |
| | | | COND. | 101 | %Recovery | AKH | 25-AUG-99 | 120.1 |
| | | | CR(D) | 106 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | CR(TR) | 110 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | CU(D) | 93 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | CU(TR) | 98 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | F- | 101 | %Recovery | VPK | 01-SEP-99 | 340.2 |
| | | | FE(D) | 107 | %Recovery | MDK | 08-SEP-99 | 6010 |
| | | | FE(TR) | 102 | %Recovery | MDK | 08-SEP-99 | 6010 |
| | | | K | 93 | %Recovery | MDK | 08-SEP-99 | 6010 |
| | | | MG | 108 | %Recovery | MDK | 08-SEP-99 | 6010 |
| | | | NA | 92 | %Recovery | MDK | 08-SEP-99 | 6010 |
| | | | NO2/NO3 | 100 | %Recovery | JN | 15-SEP-99 | 353.2 |
| | | | PB(D) | 104 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | PB(TR) | 100 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | PH | 99 | %Recovery | DC | 02-SEP-99 | 150.1 |
| | | | SE(D) | 82 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | SE(TR) | 84 | %Recovery | KPB | 15-SEP-99 | 6020M |
| | | | SO4= | 114. | %Recovery | JN | 30-AUG-99 | 9036 |
| | | | TDS | 101 | %Recovery | AKH | 25-AUG-99 | 160.1 |
| | | | TSS | 99 | %Recovery | AKH | 25-AUG-99 | 160.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

(Project)

Batch No: WG990861



| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG990861-3 | | Lab Control Sample | Zn(D) | 88 | % Recovery | KPB | 15-SEP-99 | | 6020 |
| | | | Zn(TR) | 92 | % Recovery | KPB | 15-SEP-99 | | 6020M |
| WG990861-4 | | Duplicate | AS(D) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | AS(TR) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | CA | <1 | % RPD | MDK | 08-SEP-99 | | 6010 |
| | | | CD(D) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | CD(TR) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | CL- | 2.4 | % RPD | JN | 26-AUG-99 | | 325.2 |
| | | | CO3 | <1 | % RPD | DC | 02-SEP-99 | | 310.1 |
| | | | COND. | <1 | % RPD | AKH | 25-AUG-99 | | 120.1 |
| | | | CR(D) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | CR(TR) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | CU(D) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | CU(TR) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | F- | 3.0 | % RPD | VPK | 01-SEP-99 | | 340.2 |
| | | | FE(D) | <1 | % RPD | MDK | 08-SEP-99 | | 6010 |
| | | | FE(TR) | <1 | % RPD | MDK | 08-SEP-99 | | 6010 |
| | | | HCO3 | 2.4 | % RPD | DC | 02-SEP-99 | | 310.1 |
| | | | K | 2.8 | % RPD | MDK | 08-SEP-99 | | 6010 |
| | | | MG | <1 | % RPD | MDK | 08-SEP-99 | | 6010 |
| | | | NA | 3.0 | % RPD | MDK | 08-SEP-99 | | 6010 |
| | | | NO2/NO3 | 1.7 | % RPD | JN | 15-SEP-99 | | 353.2 |
| | | | PB(D) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | PB(TR) | 12 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | PH | <1 | % RPD | DC | 02-SEP-99 | | 150.1 |
| | | | SE(D) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | SE(TR) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| | | | SO4= | <1 | % RPD | JN | 30-AUG-99 | | 9036 |
| | | | TDS | <1 | % RPD | AKH | 25-AUG-99 | | 160.1 |
| | | | TSS | 1.2 | % RPD | AKH | 25-AUG-99 | | 160.2 |
| | | | Zn(D) | <1 | % RPD | KPB | 15-SEP-99 | | 6020 |
| | | | Zn(TR) | <1 | % RPD | KPB | 15-SEP-99 | | 6020M |
| WG990861-5 | | Practical Quantitation Limit | AS(D) | 0.005 | ppm | | | | 6020M |
| | | | AS(TR) | 0.005 | ppm | | | | 6020M |
| | | | CA | 1.0 | ppm | | | | 6010 |
| | | | CD(D) | 0.005 | ppm | | | | 6020M |
| | | | CD(TR) | 0.005 | ppm | | | | 6020M |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

(Project)

Batch No: WG990861

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG990861-5 | | Practical Quantitation Limit | | | | | | | |
| | | | CL- | 1.0 | ppm | | | | 325.2 |
| | | | CO3 | 1.0 | ppm CaCO3 | | | | 310.1 |
| | | | COND. | 10.0 | umhos/cm2 | | | | 120.1 |
| | | | CR (D) | 0.010 | ppm | | | | 6020M |
| | | | CR (TR) | 0.010 | ppm | | | | 6020M |
| | | | CU (D) | 0.025 | ppm | | | | 6020M |
| | | | CU (TR) | 0.025 | ppm | | | | 6020M |
| | | | F- | 0.1 | ppm | | | | 340.2 |
| | | | FE (D) | 0.10 | ppm | | | | 6010 |
| | | | FE (TR) | 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 | 0.1 | ppm | | | | 353.2 |
| | | | PB (D) | 0.003 | ppm | | | | 6020M |
| | | | PB (TR) | 0.003 | ppm | | | | 6020M |
| | | | SE (D) | 0.005 | ppm | | | | 6020M |
| | | | SE (TR) | 0.005 | ppm | | | | 6020M |
| | | | SO4= | 1.0 | ppm | | | | 9036 |
| | | | TDS | 10.0 | ppm | | | | 160.1 |
| | | | TSS | 1.0 | ppm | | | | 160.2 |
| | | | ZN (D) | 0.020 | ppm | | | | 6020 |
| | | | ZN (TR) | 0.020 | ppm | | | | 6020M |

Approved: 
Reviewed: 

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 | |
|---|-------|--------------------|------|-------------------|--|----------------|---|--------------------------------|------------|----------------------------------|--|------|-----|--------------------------------------|---|---------|--|
| 0931 | | ASARCO EL PASO, TX | | | | | | | | | | | | | | | |
| SAMPLERS: (Signature) | | | | SAMPLE NUMBER | | | | | | | | | | | | | |
| Doreen M. Solon | | | | | | | | | | | | | | | | | |
| DATE | TIME | COMP | GRAB | SAMPLE NUMBER | | Commons UF/RAW | Nutrients UF/H ₂ SO ₄ | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | Total Recoverable Metals UF/HNO ₃ | BTEX | TPH | Standard XRF
As Cd Cr Cu Fe Pb Zn | | REMARKS | |
| 8/20/91 | 13:50 | | | EPR1-9908-188 | | | | | | | | | | | X | | |
| | 13:35 | | | EPR1-9908-181 | | | | | | | | | | | X | | |
| | 14:20 | | | EPR1-9908-187 | | | | | | | | | | | X | | |
| | 14:45 | | | EPR1-9908-186 | | | | | | | | | | | X | | |
| | 15:05 | | | EPR1-9908-185 | | | | | | | | | | | X | | |
| | 16:05 | | | EPR1-9908-184 | | | | | | | | | | | X | | |
| | 16:35 | | | EPR1-9908-179 | | | | | | | | | | | X | | |
| <div>Relinquished (Signature)</div> <div>8/23/91 12:00</div> <div>Received by: (Signature)</div> <div>Lab TSC-SALT LAKE CITY, UT</div> <div>P.O. #</div> <div>Shipped via: Bus, Fed Ex, UPS</div> <div>Other</div> <div>Air Bill #</div> | | | | | | | | | | | | | | | | | |
| <div>Relinquished (Signature)</div> <div>8/23/91 12:00</div> <div>Received by: (Signature)</div> <div>Remarks</div> | | | | | | | | | | | | | | | | | |
| <div>Relinquished (Signature)</div> <div>8/23/91 12:00</div> <div>Received for Laboratory by: (Signature)</div> <div>Date/Time 8/24/91 1030</div> <div>Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits
<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter
<input type="checkbox"/> Other</div> <div>Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined</div> | | | | | | | | | | | | | | | | | |

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 | COMMONS UF/RAW | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | BTEX | TPH | REMARKS | |
|--------------------------|------|--------------|------|-------------------|---|--------------------------------|------------|----------------------------------|-----------|-----|---|---------------|
| DATE | TIME | COMP. | GRAB | | | | | | | | | SAMPLE NUMBER |
| 8-20-99 | 800 | | | 4 | X | X | X | X | X | X | | |
| | 825 | | | 4 | X | X | X | X | X | X | | |
| | 845 | | | 4 | X | X | X | X | X | X | | |
| | 900 | | | 4 | X | X | X | X | X | X | | |
| | 905 | | | 4 | X | X | X | X | X | X | | |
| | 930 | | | 4 | X | X | X | X | X | X | | |
| | 1000 | | | 4 | X | X | X | X | X | X | | |
| | 1030 | | | 4 | X | X | X | X | X | X | | |
| | 1330 | | | 4 | X | X | X | X | X | X | | |
| | 1345 | | | 4 | X | X | X | X | X | X | | |
| | 1415 | | | 4 | X | X | X | X | X | X | | |
| | 1440 | | | 4 | X | X | X | X | X | X | | |
| | 1500 | | | 4 | X | X | X | X | X | X | | |
| Relinquished (Signature) | | | | | Received by: (Signature) | | Lab | | P.O. # | | Shipped via: Bus, Fed Ex, UPS
Other
Air Bill # | |
| Relinquished (Signature) | | | | | Received by: (Signature) | | Remarks | | Date/Time | | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits
<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter
<input type="checkbox"/> Other | |
| Relinquished (Signature) | | | | | Received for Laboratory by: (Signature) | | Date/Time | | Date/Time | | Split Samples:
<input type="checkbox"/> Accepted <input type="checkbox"/> Declined | |

HF0RM-1-4/95

Return results & electronic copy to:

SECTION I-6

**LABORATORY REPORTS FOR WATER SAMPLES,
FALL 1999**

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991825

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991825-001 | 13-OCT-99 | EPRI-9911-192 | AS | 0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 143. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 602. | ppm | JN | 25-OCT-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 15-OCT-99 | 310.1 | |
| | | | COND. | 5100. | umhos/cm2 | BD | 21-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | F- | 1.9 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 11. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 772. | ppm CaCO3 | DC | 15-OCT-99 | 14 | 310.1 |
| | | | K | 19. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 86. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 1005. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 11. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.008 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 7.7 | pH | DC | 15-OCT-99 | 150.1 | |
| | | | SE | 0.017 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 1252. | ppm | JN | 10-NOV-99 | 28 | 9036 |
| | | | TDS | 3728. | ppm | BD | 18-OCT-99 | 7 | 160.1 |
| | | | TSS | 1251. | ppm | BD | 18-OCT-99 | 160.2 | |
| | | | ZN | 0.053 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| L991825-002 | 13-OCT-99 | EPRI-9911-193 | AS | 0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 257. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 573. | ppm | JN | 22-OCT-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 15-OCT-99 | 310.1 | |
| | | | COND. | 4960. | umhos/cm2 | BD | 21-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | F- | 1.1 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 12. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 460. | ppm CaCO3 | DC | 15-OCT-99 | 14 | 310.1 |
| | | | K | 24. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 118. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 874. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 15. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.017 | ppm | KB | 10-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991825

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | VOID DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991825-002 | 13-OCT-99 | EPRI-9911-193 | PH | 7.7 | PH | DC | 15-OCT-99 | 150.1 | |
| | | | SE | 0.019 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 1416. | ppm | JN | 10-NOV-99 | 28 | 9036 |
| | | | TDS | 3692. | ppm | BD | 18-OCT-99 | 7 | 160.1 |
| | | | TSS | 349. | ppm | BD | 18-OCT-99 | | 160.2 |
| | | | ZN | 0.053 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 0.007 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 134. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 655. | ppm | JN | 22-OCT-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 15-OCT-99 | | 310.1 |
| | | | COND. | 5040. | umhos/cm2 | BD | 21-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| L991825-003 | 13-OCT-99 | EPRI-9911-194 | CU | <0.025 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | F- | 1.3 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 2.2 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 357. | ppm CaCO3 | DC | 15-OCT-99 | 14 | 310.1 |
| | | | K | 21. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | Mg | 117. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 928. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 14. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.008 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 7.6 | PH | DC | 15-OCT-99 | | 150.1 |
| | | | SE | 0.027 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 1290. | ppm | JN | 10-NOV-99 | 28 | 9036 |
| | | | TDS | 3609. | ppm | BD | 18-OCT-99 | 7 | 160.1 |
| | | | TSS | 94. | ppm | BD | 18-OCT-99 | | 160.2 |
| | | | ZN | 0.075 | ppm | KB | 10-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991825

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | WELD DAYS METHOD |
|---------|----------------|-------------|-----------|-------|-------|---------|---------------|------------------|
|---------|----------------|-------------|-----------|-------|-------|---------|---------------|------------------|

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: WG991085

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | SOLID DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|-----------|---------|---------------|------------|--------|
| WG991085-1 | | Matrix Spike | | | | | | | |
| | | | AS | 76 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | CD | 87 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | CL- | 103 | %Recovery | JN | 22-OCT-99 | | 325.2 |
| | | | CR | 78 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | CU | 107 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | F- | 97 | %Recovery | BD | 28-OCT-99 | | 340.2 |
| | | | FE | SR-4xSA | %Recovery | MK | 03-NOV-99 | | 6010 |
| | | | NO2/NO3 | 100 | %Recovery | JN | 16-NOV-99 | | 353.2 |
| | | | PB | 90 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | SE | 81 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | SO4= | 114 | %Recovery | JN | 10-NOV-99 | | 9036 |
| | | | ZN | 77 | %Recovery | KB | 10-NOV-99 | | 6020 |
| WG991085-2 | | Prep Blank | | | | | | | |
| | | | AS | <0.005 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | CA | <1.0 | ppm | MK | 03-NOV-99 | | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | CL- | <1.0 | ppm | JN | 22-OCT-99 | | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 15-OCT-99 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 21-OCT-99 | | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | F- | <0.050 | ppm | BD | 28-OCT-99 | | 340.2 |
| | | | FE | <0.10 | ppm | MK | 03-NOV-99 | | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 15-OCT-99 | | 310.1 |
| | | | K | <2.0 | ppm | MK | 03-NOV-99 | | 6010 |
| | | | MG | <1.0 | ppm | MK | 03-NOV-99 | | 6010 |
| | | | NA | <2.0 | ppm | MK | 03-NOV-99 | | 6010 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 16-NOV-99 | | 353.2 |
| | | | PB | <0.003 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | SE | <0.005 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 10-NOV-99 | | 9036 |
| | | | TDS | <10. | ppm | BD | 18-OCT-99 | | 160.1 |
| | | | TSS | <1.0 | ppm | BD | 18-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 10-NOV-99 | | 6020 |
| WG991085-3 | | Lab Control Sample | | | | | | | |
| | | | AS | 102 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | CA | 96 | %Recovery | MK | 03-NOV-99 | | 6010 |
| | | | CD | 103 | %Recovery | KB | 10-NOV-99 | | 6020 |
| | | | CL- | 106 | %Recovery | JN | 22-OCT-99 | | 325.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: W991085

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-------|
| WG991085-3 | | Lab Control Sample | | | | | | |
| | | | COND. | 100 | % Recovery | BD | 21-OCT-99 | 120.1 |
| | | | CR | 98 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | CU | 96 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | F- | 100 | % Recovery | BD | 28-OCT-99 | 340.2 |
| | | | FE | 113 | % Recovery | MK | 03-NOV-99 | 6010 |
| | | | HCO3 | 102 | % Recovery | DC | 15-OCT-99 | 310.1 |
| | | | K | 81 | % Recovery | MK | 03-NOV-99 | 6010 |
| | | | MG | 95 | % Recovery | MK | 03-NOV-99 | 6010 |
| | | | NA | 107 | % Recovery | MK | 03-NOV-99 | 6010 |
| | | | NO2/NO3 | 101 | % Recovery | JN | 16-NOV-99 | 353.2 |
| | | | PB | 101 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | SE | 105 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | SO4= | 102 | % Recovery | JN | 10-NOV-99 | 9036 |
| | | | TDS | 102 | % Recovery | BD | 18-OCT-99 | 160.1 |
| | | | TSS | 95 | % Recovery | BD | 18-OCT-99 | 160.2 |
| | | | ZN | 107 | % Recovery | KB | 10-NOV-99 | 6020 |
| WG991085-4 | | Duplicate | | | | | | |
| | | | AS | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | CA | <1 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | CD | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | CL- | 15 | % RPD | JN | 22-OCT-99 | 325.2 |
| | | | CO3 | <1 | % RPD | DC | 15-OCT-99 | 310.1 |
| | | | COND. | <1 | % RPD | BD | 21-OCT-99 | 120.1 |
| | | | CR | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | CU | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | F- | 2.5 | % RPD | BD | 28-OCT-99 | 340.2 |
| | | | FE | <1 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | HCO3 | <1 | % RPD | DC | 15-OCT-99 | 310.1 |
| | | | K | <1 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | MG | <1 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | NA | 3.3 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | NO2/NO3 | 2.1 | % RPD | JN | 16-NOV-99 | 353.2 |
| | | | PB | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | SE | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | SO4= | 4.9 | % RPD | JN | 10-NOV-99 | 9036 |
| | | | TDS | 2.9 | % RPD | BD | 18-OCT-99 | 160.1 |
| | | | TSS | 4.3 | % RPD | BD | 18-OCT-99 | 160.2 |
| | | | ZN | <1 | % RPD | KB | 10-NOV-99 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991085

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FIELD ORIGIN | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|--------------|--------|
| WG991085-5 | | Practical Quantitation Limit | | | | | | | |
| | | | AS | 0.005 | ppm | | | | 6020 |
| | | | CA | 1.0 | ppm | | | | 6010 |
| | | | CD | 0.005 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | CL- | 1.0 | ppm | | | | 325.2 |
| | | | CO3 | 1.0 | ppm | | | | 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 | | | | 310.1 |
| | | | K | 2.0 | ppm | | | | 6010 |
| | | | MG | 1.0 | ppm | | | | 6010 |
| | | | NA | 2.0 | ppm | | | | 6010 |
| | | | NO2/NO3 | .050 | 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 |

Approved

Ken Bilak
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991881

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|--------|
| L991881-001 | 18-OCT-99 | EPRI-9911-195 | AS | 5.4 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 387. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 354. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | 28 | 310.1 |
| | | | COND. | 5600. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | 0.042 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | F- | 3.0 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 13. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 370. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 75. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 156. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 713. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 68. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.15 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 7.6 | pH | DC | 27-OCT-99 | 150.1 | |
| | | | SE | 0.99 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 2587. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 4758. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 473. | ppm | BD | 25-OCT-99 | 160.2 | |
| | | | ZN | 0.29 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| L991881-002 | 18-OCT-99 | EPRI-9911-196 | AS | 0.16 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 198. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | 0.019 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 545. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | 310.1 | |
| | | | COND. | 4940. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | 0.23 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | F- | 1.5 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 8.3 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 491. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 15. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 123. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 847. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.37 | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.085 | ppm | KB | 10-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991881

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | NOID | NOID |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|-------|
| L991881-002 | 18-OCT-99 | EPRI-9911-196 | PH | 7.8 | PH | DC | 27-OCT-99 | 150.1 | |
| | | | SE | 0.020 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 1310. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 3689. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 42. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | 0.16 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 0.018 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 162. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 571. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | | 310.1 |
| | | | COND. | 6370. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| L991881-003 | 18-OCT-99 | EPRI-9911-197 | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | 0.035 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | F- | 2.7 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 11. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 383. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 134. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 92. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 1290. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 12. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.026 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | PH | DC | 27-OCT-99 | | 150.1 |
| | | | SE | 0.36 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| L991881-004 | 20-OCT-99 | EPRI-9911-198 | SO4= | 2293. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 4659. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 235. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | 0.044 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 0.008 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 548. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | 0.022 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 1601. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | | 310.1 |
| | | | COND. | 8830. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | F- | 1.3 | ppm | BD | 28-OCT-99 | 28 | 340.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991881

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|------------|---------|---------------|-----------|--------|
| L991881-004 | 20-OCT-99 | EPRI-9911-198 | FE | 0.34 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 282. | ppm | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 42. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 286. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 1116. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 142. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.007 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 8.0 | PH | DC | 27-OCT-99 | | 150.1 |
| | | | SE | 0.42 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 2588. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 6895. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 162. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | 0.13 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 7.2 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 132. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | 0.78 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 670. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 27-OCT-99 | | 310.1 |
| | | | COND. | 7220. | unthos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| L991881-005 | 21-OCT-99 | EPRI-9911-199 | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | 0.028 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | F- | 1.8 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 2.6 | ppm | BD | 10-NOV-99 | 180 | 6010 |
| | | | HCO3 | 396. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | K | 66. | ppm | DC | 27-OCT-99 | 14 | 310.1 |
| | | | MG | 40. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 1387. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 64. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.015 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 7.7 | PH | DC | 27-OCT-99 | | 150.1 |
| | | | SE | 2.3 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 2856. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 5334. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 4245. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | 0.16 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 0.21 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 128. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| L991881-006 | 21-OCT-99 | EPRI-9911-200 | AS | 0.21 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 128. | ppm | MK | 03-NOV-99 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991881

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991881-006 | 21-OCT-99 | EPRI-9911-200 | CD | 0.050 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 197. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | 28 | 310.1 |
| | | | COND. | 2760. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | F- | 1.6 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 300. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 107. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 28. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 360. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 10. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 7.8 | pH | DC | 27-OCT-99 | 150.1 | |
| | | | SE | 5.0 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 949. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 1936. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 21. | ppm | BD | 25-OCT-99 | 160.2 | |
| | | | ZN | 0.094 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| L991881-007 | 21-OCT-99 | EPRI-9911-201 | AS | 0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 81. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 181. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | 28 | 310.1 |
| | | | COND. | 1590. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | F- | 0.60 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 0.15 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 183. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 8.2 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 24. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 211. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 3.4 | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 8.0 | pH | DC | 27-OCT-99 | 150.1 | |
| | | | SE | 0.22 | ppm | KB | 10-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991881

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | WTD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|----------|--------|
| L991881-007 | 21-OCT-99 | EPRI-9911-201 | SO4= | 397. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 1057. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 46. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | 0.027 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 0.071 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 139. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 503. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | | 310.1 |
| | | | COND. | 4600. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | | 6020 |
| L991881-008 | 21-OCT-99 | EPRI-9911-202 | F- | 2.1 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 0.41 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 334. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 28. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 76. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 782. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 10. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.006 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 7.8 | PH | DC | 27-OCT-99 | | 150.1 |
| | | | SE | 0.11 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 1671. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 2449. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| L991881-009 | 21-OCT-99 | EPRI-9911-203 | TSS | 154. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 0.015 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 436. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 1085. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | | 310.1 |
| | | | COND. | 6450. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | F- | 0.89 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| | | | FE | 0.18 | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 160. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991881

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FIELD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|------------|--------|
| L991881-009 | 21-OCT-99 | EPRI-9911-203 | K | 26. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 211. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 733. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 90. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 7.8 | pH | DC | 27-OCT-99 | | 150.1 |
| | | | SE | 0.49 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 1912. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 4821. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 22. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | 0.027 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | 0.30 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 196. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 479. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | | 310.1 |
| | | | COND. | 4460. | umhos/cm2 | BD | 26-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | | 6020 |
| | | | F- | 2.2 | ppm | BD | 28-OCT-99 | 28 | 340.2 |
| L991881-010 | 21-OCT-99 | EPRI-9911-204 | FE | 0.91. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | HCO3 | 282. | ppm CaCO3 | DC | 27-OCT-99 | 14 | 310.1 |
| | | | K | 28. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | MG | 80. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NA | 692. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 4.5 | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | PB | 0.012 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | PH | 8.0 | pH | DC | 27-OCT-99 | | 150.1 |
| | | | SE | 0.068 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | SO4= | 1896. | ppm | JN | 15-NOV-99 | 28 | 9036 |
| | | | TDS | 3410. | ppm | BD | 26-OCT-99 | 7 | 160.1 |
| | | | TSS | 216. | ppm | BD | 25-OCT-99 | | 160.2 |
| | | | ZN | 0.055 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | AS | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 232. | ppm | MK | 03-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CL- | 355. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| L991881-011 | 21-OCT-99 | EPRI-9911-205 | AS | <0.005 | ppm | KB | 10-NOV-99 | 180 | 6020 |
| | | | CA | 232. | ppm | MK | 03-NOV-99 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991881

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|
| L991881-011 | 21-OCT-99 | EPRI-9911-205 | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | 310.1 |
| | | | COND. | 4180. | umhos/cm2 | BD | 26-OCT-99 | 28 |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 180 |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | 6020 |
| | | | F- | 1.2 | ppm | BD | 28-OCT-99 | 28 |
| | | | FE | 3.1 | ppm | BD | 03-NOV-99 | 180 |
| | | | HCO3 | 253. | ppm CaCO3 | DC | 27-OCT-99 | 14 |
| | | | K | 19. | ppm | DC | 27-OCT-99 | 14 |
| | | | MG | 99. | ppm | KB | 03-NOV-99 | 180 |
| | | | NA | 595. | ppm | KB | 03-NOV-99 | 180 |
| | | | NO2/NO3 | 6.6 | ppm | KB | 03-NOV-99 | 180 |
| | | | PB | 0.004 | ppm | KB | 11-NOV-99 | 28 |
| | | | PH | 7.7 | PH | DC | 27-OCT-99 | 150.1 |
| | | | SE | 0.087 | ppm | KB | 10-NOV-99 | 180 |
| | | | SO4= | 1893. | ppm | JN | 15-NOV-99 | 28 |
| | | | TDS | 3328. | ppm | BD | 26-OCT-99 | 7 |
| | | | TSS | 130. | ppm | BD | 25-OCT-99 | 160.1 |
| | | | ZN | 0.053 | ppm | KB | 10-NOV-99 | 180 |

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


Approver


Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991086

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | METHOD |
|------------|----------------|--------------------|-----------|--------|------------|---------|---------------|-----------|--------|
| WG991086-1 | | Matrix Spike | AS | 97 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | CD | 90 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | CL- | 99 | \$Recovery | JN | 01-NOV-99 | 325.2 | |
| | | | CR | 85 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | CU | 96 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | F- | 97 | \$Recovery | BD | 28-OCT-99 | 340.2 | |
| | | | FE | 84 | \$Recovery | MK | 03-NOV-99 | 6010 | |
| | | | NO2/NO3 | 100 | \$Recovery | JN | 11-NOV-99 | 353.2 | |
| | | | PB | 95 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | SE | 90 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | SO4= | 95 | \$Recovery | JN | 15-NOV-99 | 9036 | |
| | | | ZN | 92 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | AS | <0.005 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | CA | <1.0 | ppm | MK | 03-NOV-99 | 6010 | |
| | | | CD | <0.005 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | CL- | <1.0 | ppm | JN | 01-NOV-99 | 325.2 | |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 27-OCT-99 | 310.1 | |
| WG991086-2 | | Prep Blank | COND. | <5.0 | umhos/cm2 | BD | 26-OCT-99 | 120.1 | |
| | | | CR | <0.010 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | CU | <0.025 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | F- | <0.050 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | FE | <0.10 | ppm | BD | 28-OCT-99 | 340.2 | |
| | | | HCO3 | <1.0 | ppm | MK | 03-NOV-99 | 6010 | |
| | | | K | <5.0 | ppm CaCO3 | DC | 27-OCT-99 | 310.1 | |
| | | | MG | <1.0 | ppm | MK | 03-NOV-99 | 6010 | |
| | | | NA | <2.0 | ppm | MK | 03-NOV-99 | 6010 | |
| | | | NO2/NO3 | <0.050 | ppm | JN | 11-NOV-99 | 353.2 | |
| | | | PB | <0.003 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | SE | <0.005 | ppm | KB | 10-NOV-99 | 6020 | |
| | | | SO4= | <2.0 | ppm | JN | 15-NOV-99 | 9036 | |
| | | | TDS | <10. | ppm | BD | 26-OCT-99 | 160.1 | |
| | | | TSS | <1.0 | ppm | BD | 25-OCT-99 | 160.2 | |
| | | | ZN | <0.020 | ppm | KB | 10-NOV-99 | 6020 | |
| WG991086-3 | | Lab Control Sample | AS | 102 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | CA | 96 | \$Recovery | MK | 03-NOV-99 | 6010 | |
| | | | CD | 103 | \$Recovery | KB | 10-NOV-99 | 6020 | |
| | | | CL- | 101 | \$Recovery | JN | 01-NOV-99 | 325.2 | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991086

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | WELD DAYS METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|------------------|
| WG991086-3 | | Lab Control Sample | COND. | 100 | | | | |
| | | | CR | 98 | % Recovery | BD | 26-OCT-99 | 120.1 |
| | | | CU | 96 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | F- | 100 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | FE | 113 | % Recovery | BD | 28-OCT-99 | 340.2 |
| | | | HCO3 | 102 | % Recovery | MK | 03-NOV-99 | 6010 |
| | | | K | 81 | % Recovery | DC | 27-OCT-99 | 310.1 |
| | | | MG | 95 | % Recovery | MK | 03-NOV-99 | 6010 |
| | | | NA | 107 | % Recovery | MK | 03-NOV-99 | 6010 |
| | | | NO2/NO3 | 93 | % Recovery | JN | 11-NOV-99 | 353.2 |
| | | | PB | 101 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | SE | 105 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | SO4= | 97 | % Recovery | JN | 15-NOV-99 | 9036 |
| | | | TDS | 103 | % Recovery | BD | 26-OCT-99 | 160.1 |
| | | | TSS | 90 | % Recovery | BD | 25-OCT-99 | 160.2 |
| | | | ZN | 109 | % Recovery | KB | 10-NOV-99 | 6020 |
| | | | AS | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | CA | 1.0 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | CD | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | CL- | <1 | % RPD | JN | 01-NOV-99 | 325.2 |
| WG991086-4 | | Duplicate | CO3 | <1 | % RPD | DC | 27-OCT-99 | 310.1 |
| | | | COND. | <1 | % RPD | BD | 26-OCT-99 | 120.1 |
| | | | CR | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | CU | 2.4 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | F- | 2.5 | % RPD | BD | 28-OCT-99 | 340.2 |
| | | | FE | <1 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | HCO3 | 1.0 | % RPD | DC | 27-OCT-99 | 310.1 |
| | | | K | 2.6 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | MG | <1 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | NA | 1.5 | % RPD | MK | 03-NOV-99 | 6010 |
| | | | NO2/NO3 | 6.2 | % RPD | JN | 11-NOV-99 | 353.2 |
| | | | PB | 6.5 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | SE | <1 | % RPD | KB | 10-NOV-99 | 6020 |
| | | | SO4= | 4.0 | % RPD | JN | 15-NOV-99 | 9036 |
| | | | TDS | <1 | % RPD | BD | 26-OCT-99 | 160.1 |
| | | | TSS | 13. | % RPD | BD | 25-OCT-99 | 160.2 |
| | | | ZN | <1 | % RPD | KB | 10-NOV-99 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991086

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG991086-5 | | 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 | | | | 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 | | | | 310.1 |
| | | | K | 5.0 | ppm | | | | 6010 |
| | | | MG | 1.0 | ppm | | | | 6010 |
| | | | NA | 2.0 | ppm | | | | 6010 |
| | | | NO2/NO3 | 0.050 | ppm | | | | 353.2 |
| | | | PB | 0.003 | ppm | | | | 6020 |
| | | | 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 |

[Signature]
Approved

[Signature]
Reviewer

CHAIN OF CUSTODY RECORD

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

| PROJ. NO. | | PROJECT NAME | | NO. OF CONTAINERS | | REMARKS | |
|------------------------------|------|---------------|------|--|--------------------------------|--|-----|
| 0931-ASARCO-ELPASO, TX | | | | | | | |
| SAMPLERS: (Signature) | | SAMPLE NUMBER | | Total Recoverable Metals UF/HNO ₃ | | Total Metals UF/HNO ₃ | |
| Douglas M. Solor | | | | | | | |
| DATE | TIME | COMP | GRAB | Commons UF/RAW | Diss. Metal F/HNO ₃ | CN UF/NaOH | TPH |
| 10-13-99 | 920 | | | X | | | X |
| 10-13-99 | 1015 | | | X | | | X |
| 10-13-99 | 1330 | | | X | | | X |
| [Diagonal line across table] | | | | | | | |
| Relinquished (Signature) | | | | Received by: (Signature) | | Lab | |
| [Signature] | | | | | | TSC-SAITLAKES, TX | |
| Date/Time | | | | Date/Time | | P.O. # | |
| 10/14/99 16:00 | | | | | | | |
| Relinquished (Signature) | | | | Received by: (Signature) | | Shipped via: Bus, Fed Ex, UPS | |
| [Signature] | | | | | | Other | |
| Date/Time | | | | Date/Time | | Air Bill # | |
| | | | | | | | |
| Relinquished (Signature) | | | | Received for Laboratory by: (Signature) | | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits | |
| | | | | [Signature] | | <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter | |
| | | | | | | <input type="checkbox"/> Other | |
| | | | | Date/Time | | Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined | |
| | | | | 10-14-99 1030 | | Signature | |

THE UNIVERSITY OF CHICAGO

CHAIN OF CUSTODY RECORD

HEOBAM-1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| | | | | | | | | | |
| L991925-001 | 25-OCT-99 | EPRI-9911-100 | AS | 0.16 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 129. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 272. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 2660. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | 0.012 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.18 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.1 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 13. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 277. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 20. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 36. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 390. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.11 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.086 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.3 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 654. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 1767. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 257. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.14 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| L991925-002 | 25-OCT-99 | EPRI-9911-101 | AS | 0.042 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 323. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 1337. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 8230. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.055 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 2.2 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.43 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 436. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 25. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 124. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 1497. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.36 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.013 | ppm | KB | 16-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE
CORRECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE
ANALYZED | WOLD
DAYS METHOD |
|-------------|-------------------|---------------|-----------|--------|-----------|---------|------------------|---------------------|
| L991925-002 | 25-OCT-99 | EPRI-9911-101 | PH | 8.1 | PH | DC | 19-NOV-99 | 150.1 |
| | | | SE | 0.15 | ppm | KB | 16-NOV-99 | 180 |
| | | | SO4= | 2066. | ppm | JN | 02-NOV-99 | 28 |
| | | | TDS | 5867. | ppm | DC | 29-OCT-99 | 7 |
| | | | TSS | 39. | ppm | DC | 29-OCT-99 | 160.1 |
| | | | ZN | 0.040 | ppm | BD | 09-DEC-99 | 180 |
| | | | | | | | | 289.1 |
| | | | AS | 0.018 | ppm | KB | 16-NOV-99 | 180 |
| | | | CA | 411. | ppm | MK | 12-NOV-99 | 180 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 |
| | | | CL- | 912. | ppm | JN | 01-NOV-99 | 28 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 325.2 |
| | | | COND. | 8070. | umhos/cm2 | BD | 29-OCT-99 | 28 |
| L991925-003 | 25-OCT-99 | EPRI-9911-102 | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 180 |
| | | | F- | 1.3 | ppm | KB | 16-NOV-99 | 6020 |
| | | | FE | <0.10 | ppm | KB | 01-NOV-99 | 28 |
| | | | HCO3 | 380. | ppm | MK | 12-NOV-99 | 180 |
| | | | K | 27. | ppm CaCO3 | DC | 19-NOV-99 | 14 |
| | | | MG | 140. | ppm | MK | 12-NOV-99 | 180 |
| | | | NA | 1383. | ppm | MK | 12-NOV-99 | 180 |
| | | | NO2/NO3 | 3.5 | ppm | MK | 12-NOV-99 | 180 |
| | | | PB | <0.003 | ppm | JN | 16-NOV-99 | 28 |
| | | | PH | 8.0 | ppm | KB | 16-NOV-99 | 180 |
| | | | SE | 0.039 | ppm | DC | 19-NOV-99 | 150.1 |
| | | | SO4= | 3357. | ppm | KB | 16-NOV-99 | 180 |
| L991925-004 | 25-OCT-99 | EPRI-9911-221 | TDS | 6040. | ppm | JN | 02-NOV-99 | 28 |
| | | | TSS | 43. | ppm | DC | 29-OCT-99 | 7 |
| | | | ZN | 0.020 | ppm | DC | 29-OCT-99 | 160.1 |
| | | | | | | BD | 09-DEC-99 | 180 |
| | | | | | | | | 289.1 |
| | | | AS | <0.005 | ppm | KB | 16-NOV-99 | 180 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | 180 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 |
| | | | CL- | <1.0 | ppm | JN | 01-NOV-99 | 28 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 325.2 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 29-OCT-99 | 28 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 6020 |
| | | | F- | <0.050 | ppm | KB | 01-NOV-99 | 28 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | TEST METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|-------------|
| L991925-004 | 25-OCT-99 | EPRI-9911-221 | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | <1.0 | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | Mg | <1.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.10 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 5.8 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | <10. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.12 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 330. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | Cl | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 1197. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 6700. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| L991925-005 | 25-OCT-99 | EPRI-9911-103 | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.7 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 5.8 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 377. | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 16. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | Mg | 103. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 1223. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.11 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 7.8 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 1517. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 4506. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 23. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.030 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.12 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 321. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| L991925-006 | 25-OCT-99 | EPRI-9911-206 | AS | 0.12 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 321. | ppm | MK | 12-NOV-99 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | WORLD DAYS METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------------------|
| L991925-006 | 25-OCT-99 | EPRI-9911-206 | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CL- | 1133. | ppm | JN | 01-NOV-99 | 28 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | 310.1 |
| | | | COND. | 6700. | umhos/cm2 | BD | 29-OCT-99 | 28 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 6020 |
| | | | F- | 1.7 | ppm | KB | 01-NOV-99 | 28 340.2 |
| | | | FE | 5.5 | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | HCO3 | 372. | ppm | DC | 19-NOV-99 | 14 310.1 |
| | | | K | 15. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | MG | 98. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | NA | 1168. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | NO2/NO3 | 0.10 | ppm | JN | 16-NOV-99 | 28 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | PH | 7.9 | pH | DC | 19-NOV-99 | 150.1 |
| | | | SE | <0.005 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | SO4= | 1503. | ppm | JN | 02-NOV-99 | 28 9036 |
| | | | TDS | 4531. | ppm | DC | 29-OCT-99 | 7 160.1 |
| | | | TSS | 19. | ppm | DC | 29-OCT-99 | 160.2 |
| | | | ZN | 0.020 | ppm | BD | 09-DEC-99 | 180 289.1 |
| | | | AS | 0.75 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CA | 483. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | CD | 0.030 | ppm | KB | 16-NOV-99 | 180 6020 |
| L991925-007 | 26-OCT-99 | EPRI-9911-108 | CL- | 686. | ppm | JN | 01-NOV-99 | 28 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | 310.1 |
| | | | COND. | 9800. | umhos/cm2 | BD | 29-OCT-99 | 28 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 6020 |
| | | | F- | 2.2 | ppm | KB | 01-NOV-99 | 28 340.2 |
| | | | FE | 1.6 | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | HCO3 | 205. | ppm | DC | 19-NOV-99 | 14 310.1 |
| | | | K | 48. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | MG | 266. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | NA | 1596. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | NO2/NO3 | 143. | ppm | JN | 16-NOV-99 | 28 353.2 |
| | | | PB | 0.003 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | PH | 7.2 | pH | DC | 19-NOV-99 | 150.1 |
| | | | SE | 0.27 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | | | | | | |
| | | | | | | | | |

(10:15)

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-007 | 26-OCT-99 | EPRI-9911-108 | (10:15) | | | | | | |
| | | | SO4= | 4216. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 8197. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 106. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.040 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.67 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 441. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 475. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| L991925-008 | 26-OCT-99 | EPRI-9911-116 | COND. | 6770. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | 0.011 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.026 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.0 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 2.8 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 516. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 18. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 148. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 1018. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 67. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| L991925-009 | 26-OCT-99 | EPRI-9911-115 | PB | 0.011 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 7.8 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 1.3 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 3387. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 5791. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 454. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.27 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 76. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| L991925-009 | 26-OCT-99 | EPRI-9911-115 | CL- | 313. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 3160. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | 0.030 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.027 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 3.1 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 14. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 298. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO. | DATE
COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE
ANALYZED | HOLD
DAYS | METHOD |
|-------------|-------------------|---------------|-----------|--------|-----------|---------|------------------|--------------|--------|
| L991925-009 | 26-OCT-99 | EPRI-9911-115 | K | 22. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 23. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 597. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 3.8 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.013 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.2 | pH | DC | 19-NOV-99 | 150.1 | |
| | | | SE | 0.13 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 829. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 2052. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 572. | ppm | DC | 29-OCT-99 | 160.2 | |
| | | | ZN | 0.030 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.33 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 259. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 592. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | 310.1 | |
| | | | COND. | 5290. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | 0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.047 | ppm | KB | 16-NOV-99 | 6020 | |
| | | | F- | 2.3 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 14. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| L991925-010 | 26-OCT-99 | EPRI-9911-108 | HCO3 | 430. | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 25. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 63. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 927. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.63 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.016 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | 150.1 | |
| | | | SE | 0.041 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 1915. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 3862. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 2079. | ppm | DC | 29-OCT-99 | 160.2 | |
| | | | ZN | 0.050 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.43 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 301. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 592. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | AS | 0.33 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 259. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 592. | ppm | JN | 01-NOV-99 | 28 | 325.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-011 | 26-OCT-99 | EPRI-9911-220 | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 5300. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | 0.022 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.064 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 2.2 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 28. | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 350. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 28. | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | MG | 69. | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | NA | 952. | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.63 | ppm | KB | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.026 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.2 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.031 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 1960. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 3835. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 1395. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.060 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| L991925-012 | 26-OCT-99 | EPRI-9911-159 | AS | 0.006 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 48. | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 336. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 3340. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 3.4 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 1.2 | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 309. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 4.9 | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | MG | 63. | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | NA | 582. | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 7.8 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.3 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.022 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 817. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 2200. | ppm | DC | 29-OCT-99 | 7 | 160.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FOLD | TEST METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|-------------|
| L991925-012 | 26-OCT-99 | EPRI-9911-159 | TSS | 26. | ppm | DC | 29-OCT-99 | 160.2 | |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.70 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 59. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 244. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 310.1 | |
| | | | COND. | 2810. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 6020 | |
| | | | F- | 2.5 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 2.3 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 294. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 15. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 40. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 507. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 4.2 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.3 | pH | DC | 19-NOV-99 | 150.1 | |
| | | | SE | 0.037 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 686. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 1835. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 29. | ppm | DC | 29-OCT-99 | 160.2 | |
| | | | ZN | 0.060 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.007 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 115. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 337. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 310.1 | |
| | | | COND. | 3470. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 6020 | |
| | | | F- | 2.2 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.91 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 296. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 32. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 68. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| L991925-013 | 26-OCT-99 | EPRI-9911-172 | | | | | | | |
| L991925-014 | 26-OCT-99 | EPRI-9911-173 | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | WTD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|----------|--------|
| L991925-014 | 26-OCT-99 | EPRI-9911-173 | NA | 563. | | | | | |
| | | | NO2/NO3 | 5.2 | | MK | 12-NOV-99 | 180 | 6010 |
| | | | PB | <0.003 | | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PH | 8.3 | | KB | 16-NOV-99 | 180 | 6020 |
| | | | SE | 0.063 | | DC | 19-NOV-99 | | 150.1 |
| | | | SO4= | 1005. | | KB | 16-NOV-99 | 180 | 6020 |
| | | | TDS | 2269. | | JN | 02-NOV-99 | 28 | 9036 |
| | | | TSS | 64. | | DC | 29-OCT-99 | 7 | 160.1 |
| | | | ZN | 0.020 | | DC | 29-OCT-99 | | 160.2 |
| | | | | | | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 3.1 | | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 413. | | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 369. | | JN | 01-NOV-99 | 28 | 325.2 |
| L991925-015 | 26-OCT-99 | EPRI-9911-162 | CO3 | <1.0 | | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 5740. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.036 | | KB | 16-NOV-99 | | 6020 |
| | | | F- | 3.0 | | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 1.1 | | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 333. | | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 65. | | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 165. | | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 735. | | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 56. | | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.028 | | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.0 | | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.089 | | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 2466. | | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 4586. | | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 848. | | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.12 | | BD | 09-DEC-99 | 180 | 289.1 |
| | | | | | | | | | |
| | | | AS | <0.005 | | KB | 16-NOV-99 | 180 | 6020 |
| L991925-016 | 26-OCT-99 | EPRI-9911-222 | CA | <1.0 | | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | <1.0 | | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-016 | 26-OCT-99 | EPRI-9911-222 | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | <0.050 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | <1.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.10 | ppm | JN | 12-NOV-99 | 180 | 6010 |
| | | | PB | <0.003 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PH | 6.1 | pH | DC | 16-NOV-99 | 180 | 6020 |
| | | | SE | <0.005 | ppm | KB | 19-NOV-99 | | 150.1 |
| | | | SO4= | <2.0 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | TDS | 1909. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TSS | <1.0 | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | ZN | <0.020 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | | | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 55. | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 534. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | 1.8 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| L991925-017 | 26-OCT-99 | EPRI-9911-121 | CL- | 472. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 7380. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.041 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 6.3 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 7.0 | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 129. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 92. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 95. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 1093. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 104. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.006 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 6.8 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 1.7 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 3108. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 6050. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 440. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 5.5 | ppm | BD | 09-DEC-99 | 180 | 289.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-018 | 27-OCT-99 | EPRI-9911-127 | AS | 2.6 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 182. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 438. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 4740. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | 0.12 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.062 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 5.0 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 2.1 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 320. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 92. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 91. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 779. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 11. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.016 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.22 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 1498. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 3474. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 9.8 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.050 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| L991925-019 | 27-OCT-99 | EPRI-9911-132 | AS | 0.049 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 409. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 703. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | 14. | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 9080. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.030 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.8 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.39 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 249. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 21. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 125. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 1739. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 76. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KB | 16-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-019 | 27-OCT-99 | EPRI-9911-132 | PH | 8.4 | pH | DC | 19-NOV-99 | 150.1 | |
| | | | SE | 0.39 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 3930. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 7580. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 14. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.56 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 146. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 359. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 4000. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| L991925-020 | 27-OCT-99 | EPRI-9911-130 | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 2.9 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | FE | 0.57 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | HCO3 | 278. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | K | 38. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | MG | 64. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 599. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 4.7 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | PB | <0.003 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PH | 8.2 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SE | 0.19 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SO4= | 1278. | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | TDS | 2801. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TSS | 6.2 | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| L991925-021 | 27-OCT-99 | EPRI-9911-131 | ZN | 0.020 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | | | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.024 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 244. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 879. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 7680. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | 0.035 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 2.0 | ppm | KB | 01-NOV-99 | 28 | 340.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | NO. OF DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------------|--------|
| L991925-021 | 27-OCT-99 | EPRI-9911-131 | FE | 0.64 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 344. | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 32. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 150. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 1285. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 4.3 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.009 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 7.7 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.14 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 2488. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 5887. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 11. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 560. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 1003. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 8280. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| L991925-022 | 27-OCT-99 | EPRI-9911-128 | CR | 0.26 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.6 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 2.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 259. | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 15. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 224. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 1160. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 63. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.18 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 3085. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 6884. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 9.2 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 6.1 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 432. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| L991925-023 | 27-OCT-99 | EPRI-9911-134 | AS | 6.1 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 432. | ppm | MK | 12-NOV-99 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-023 | 27-OCT-99 | EPRI-9911-134 | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 420. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 5910. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 3.0 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.82 | ppm | KB | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 283. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 40. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 97. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 879. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 30. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.3 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.22 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 2631. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 4908. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 57. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 0.030 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.015 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 242. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 406. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 5320. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.2 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.54 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 405. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 17. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 95. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 896. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 7.4 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.3 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.032 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| L991925-024 | 27-OCT-99 | EPRI-9911-146 | AS | 0.015 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 242. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 406. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 5320. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.2 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.54 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 405. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 17. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 95. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 896. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 7.4 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.3 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.032 | ppm | KB | 16-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-024 | 27-OCT-99 | EPRI-9911-146 | SO4= | 2117. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 4080. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 27. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| L991925-025 | 27-OCT-99 | EPRI-9911-147 | AS | 0.26 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 180. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 135. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 2750. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.4 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.38 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 351. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 14. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 93. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 340. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 8.0 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.21 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 959. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 2090. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| L991925-026 | 27-OCT-99 | EPRI-9911-223 | TSS | 16. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | <1.0 | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | <0.050 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FIELD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|------------|--------|
| L991925-026 | 27-OCT-99 | EPRI-9911-223 | K | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | <1.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.10 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PH | 0.004 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 6.1 | PH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | <10. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 2.4 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 82. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 172. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 19-NOV-99 | | 310.1 |
| | | | COND. | 2700. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 3.7 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| L991925-027 | 27-OCT-99 | EPRI-9911-151 | HCO3 | 298. | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 26. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 39. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 444. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | NO2/NO3 | 6.6 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 0.004 | PH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 8.1 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 0.18 | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 773. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 1831. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 1.2 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | ZN | <0.020 | ppm | | | | |
| | | | AS | 2.5 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 84. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 173. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| L991925-028 | 27-OCT-99 | EPRI-9911-224 | AS | 2.5 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 84. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 173. | ppm | JN | 01-NOV-99 | 28 | 325.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-028 | 27-OCT-99 | EPRI-9911-224 | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 2700. | umbos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 3.7 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 303. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 27. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 41. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 458. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 5.8 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.2 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.19 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 742. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 1821. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| L991925-029 | 28-OCT-99 | EPRI-9911-106 | AS | 1.4 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 336. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 405. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 4750. | umbos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 1.7 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | 0.18 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 323. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 55. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 86. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 688. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 39. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.20 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 1537. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 3667. | ppm | DC | 29-OCT-99 | 7 | 160.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE
COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE
ANALYZED | MOID
DATE METHOD |
|-------------|-------------------|---------------|-----------|--------|-----------|---------|------------------|---------------------|
| L991925-029 | 28-OCT-99 | EPRI-9911-106 | TSS | 4.2 | ppm | DC | 29-OCT-99 | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 289.1 |
| | | | AS | 31. | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CA | 265. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | CD | 0.38 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CL- | 596. | ppm | JN | 01-NOV-99 | 28 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 310.1 |
| | | | COND. | 8960. | umhos/cm2 | BD | 29-OCT-99 | 28 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 6020 |
| | | | F- | 1.4 | ppm | KB | 01-NOV-99 | 28 340.2 |
| | | | FE | 0.47 | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | HCO3 | 268. | ppm CaCO3 | DC | 19-NOV-99 | 14 310.1 |
| | | | K | 63. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | MG | 42. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | NA | 1797. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | NO2/NO3 | 81. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | PB | 0.010 | ppm | JN | 16-NOV-99 | 28 353.2 |
| | | | PH | 8.0 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | SE | 4.4 | ppm | DC | 19-NOV-99 | 150.1 |
| | | | SO4- | 4164. | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | TDS | 6935. | ppm | JN | 02-NOV-99 | 28 9036 |
| | | | TSS | 3.9 | ppm | DC | 29-OCT-99 | 7 160.1 |
| | | | ZN | 0.030 | ppm | DC | 29-OCT-99 | 160.2 |
| | | | | | ppm | BD | 09-DEC-99 | 180 289.1 |
| | | | AS | 0.021 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CA | 230. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | CD | 0.012 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CL- | 509. | ppm | JN | 01-NOV-99 | 28 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | 310.1 |
| | | | COND. | 4400. | umhos/cm2 | BD | 29-OCT-99 | 28 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | 6020 |
| | | | F- | 0.71 | ppm | KB | 01-NOV-99 | 28 340.2 |
| | | | FE | 1.2 | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | HCO3 | 218. | ppm CaCO3 | DC | 19-NOV-99 | 14 310.1 |
| | | | K | 13. | ppm | MK | 12-NOV-99 | 180 6010 |
| | | | MG | 81. | ppm | MK | 12-NOV-99 | 180 6010 |

L991925-031 28-OCT-99 EPRI-9911-107

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991925-031 | 28-OCT-99 | EPRI-9911-107 | NA | 671. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 20. | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.12 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 1356. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 3250. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 60. | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.007 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 171. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CL- | 351. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 2880. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| L991925-032 | 28-OCT-99 | EPRI-9911-155 | F- | 0.72 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 200. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 18. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | Mg | 66. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 357. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 7.6 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.016 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 832. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 2022. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 4.1 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |
| | | | AS | 0.007 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CA | 175. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| L991925-033 | 28-OCT-99 | EPRI-9911-225 | CL- | 345. | ppm | JN | 01-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 2880. | umhos/cm2 | BD | 29-OCT-99 | 28 | 120.1 |
| | | | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

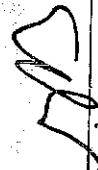
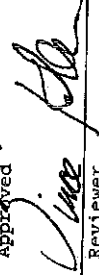
El Paso

Water and Solid Waste (Project 3220)

Batch No: L991925

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | ANALYSIS METHOD |
|-------------|----------------|---------------|-----------|--------|-------|---------|---------------|-----------|-----------------|
| L991925-033 | 28-OCT-99 | EPRI-9911-225 | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | 0.71 | ppm | KB | 01-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 227. | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 18. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | MG | 70. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NA | 365. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 7.3 | ppm | JN | 16-NOV-99 | 28 | 353.2 |
| | | | PB | 0.004 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.016 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | SO4= | 838. | ppm | JN | 02-NOV-99 | 28 | 9036 |
| | | | TDS | 2016. | ppm | DC | 29-OCT-99 | 7 | 160.1 |
| | | | TSS | 5.2 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | 180 | 289.1 |

PH is a field parameter therefore holding time cannot be met by the laboratory.
Holding time for alkalinity exceeded.
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: WG991110

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|--------|------------|---------|---------------|-----------|--------|
| WG991110-1 | | Matrix Spike | AS | 83 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CD | 80 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CL- | 94 | \$Recovery | JN | 01-NOV-99 | | 325.2 |
| | | | CR | 92 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CU | 79 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | P- | 89 | \$Recovery | KB | 01-NOV-99 | | 340.2 |
| | | | FE | 109 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | NO2/NO3 | 100 | \$Recovery | JN | 16-NOV-99 | | 353.2 |
| | | | PB | 82 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | SE | 79 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | SO4= | 106 | \$Recovery | JN | 02-NOV-99 | | 9036 |
| | | | ZN | 100 | \$Recovery | BD | 09-DEC-99 | | 289.1 |
| | | | AS | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CL- | <1.0 | ppm | JN | 01-NOV-99 | | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| WG991110-2 | | Prep Blank | COND. | <5.0 | umhos/cm2 | BD | 29-OCT-99 | | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | <0.050 | ppm | KB | 01-NOV-99 | | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | K | <5.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | MG | <1.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | NA | <5.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 16-NOV-99 | | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | SE | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 02-NOV-99 | | 9036 |
| | | | TDS | <10. | ppm | DC | 29-OCT-99 | | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | | 289.1 |
| WG991110-3 | | Lab Control Sample | AS | 85 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CA | 102 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | CD | 89 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CL- | 101 | \$Recovery | JN | 01-NOV-99 | | 325.2 |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991110.

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|------------|---------|---------------|-----------|--------|
| WG991110-3 | | Lab Control Sample | | | | | | | |
| | | | COND. | 99 | % Recovery | BD | 29-OCT-99 | 120.1 | |
| | | | CR | 98 | % Recovery | KB | 16-NOV-99 | 6020 | |
| | | | CU | 97 | % Recovery | KB | 16-NOV-99 | 6020 | |
| | | | F- | 93 | % Recovery | KB | 01-NOV-99 | 340.2 | |
| | | | FE | 122 | % Recovery | MK | 12-NOV-99 | 6010 | |
| | | | HCO3 | 97 | % Recovery | DC | 19-NOV-99 | 310.1 | |
| | | | K | 99 | % Recovery | MK | 12-NOV-99 | 6010 | |
| | | | MG | 96 | % Recovery | MK | 12-NOV-99 | 6010 | |
| | | | NA | 97 | % Recovery | MK | 12-NOV-99 | 6010 | |
| | | | NO2/NO3 | 101 | % Recovery | JN | 16-NOV-99 | 353.2 | |
| | | | PB | 96 | % Recovery | KB | 16-NOV-99 | 6020 | |
| | | | SE | 75 | % Recovery | KB | 16-NOV-99 | 6020 | |
| | | | SO4= | 102 | % Recovery | JN | 02-NOV-99 | 9036 | |
| | | | TDS | 98 | % Recovery | DC | 29-OCT-99 | 160.1 | |
| | | | TSS | 102 | % Recovery | DC | 29-OCT-99 | 160.2 | |
| | | | ZN | 105 | % Recovery | BD | 09-DEC-99 | 289.1 | |
| WG991110-4 | | Duplicate | | | | | | | |
| | | | AS | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | CA | <1 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | CD | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | CL- | <1 | % RPD | JN | 01-NOV-99 | 325.2 | |
| | | | CO3 | <1 | % RPD | DC | 19-NOV-99 | 310.1 | |
| | | | COND. | <1 | % RPD | BD | 29-OCT-99 | 120.1 | |
| | | | CR | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | CU | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | F- | <1 | % RPD | KB | 01-NOV-99 | 340.2 | |
| | | | FE | <1 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | HCO3 | <1 | % RPD | DC | 19-NOV-99 | 310.1 | |
| | | | K | <1 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | MG | <1 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | NA | 2.5 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | NO2/NO3 | 2.1 | % RPD | JN | 16-NOV-99 | 353.2 | |
| | | | PB | 1.2 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | SE | +/-prdl | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | SO4= | 3.2 | % RPD | JN | 02-NOV-99 | 9036 | |
| | | | TDS | 15 | % RPD | DC | 29-OCT-99 | 160.1 | |
| | | | TSS | 6.3 | % RPD | DC | 29-OCT-99 | 160.2 | |
| | | | ZN | <1 | % RPD | BD | 09-DEC-99 | 289.1 | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991110

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | TEST METHOD |
|------------|----------------|------------------------------|-----------|--------|-----------|---------|---------------|-----------|-------------|
| WG991110-5 | | 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 | 0.050 | ppm | | | | 353.2 |
| | | | PB | 0.003 | ppm | | | | 6020 |
| | | | SE | 0.005 | ppm | | | | 9036 |
| | | | SO4= | 2.0 | ppm | | | | 160.1 |
| | | | TDS | 10. | ppm | | | | 160.2 |
| | | | TSS | 1.0 | ppm | | | | 289.1 |
| | | | ZN | 0.020 | ppm | | | | |
| WG991110-6 | | Matrix Spike | AS | 89 | %Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CD | 89 | %Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CL- | 94 | %Recovery | JN | 01-NOV-99 | | 325.2 |
| | | | CR | 101 | %Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CU | 91 | %Recovery | KB | 16-NOV-99 | | 6020 |
| | | | F- | 92 | %Recovery | KB | 01-NOV-99 | | 340.2 |
| | | | FE | 112 | %Recovery | MK | 12-NOV-99 | | 6010 |
| | | | NO2/NO3 | 99 | %Recovery | JN | 16-NOV-99 | | 353.2 |
| | | | PB | 91 | %Recovery | KB | 16-NOV-99 | | 6020 |
| | | | SE | 77 | %Recovery | KB | 16-NOV-99 | | 6020 |
| | | | SO4= | 113 | %Recovery | JN | 02-NOV-99 | | 9036 |
| | | | ZN | 105 | %Recovery | BD | 09-DEC-99 | | 289.1 |
| | | | AS | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CL- | <1.0 | ppm | JN | 01-NOV-99 | | 325.2 |
| WG991110-7 | | Prep Blank | AS | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | CD | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CL- | <1.0 | ppm | JN | 01-NOV-99 | | 325.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991110

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|--------|------------|---------|---------------|-----------|--------|
| WG991110-7 | | Prep Blank | CO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 29-OCT-99 | | 120.1 |
| | | | CR | <0.010 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | F- | <0.050 | ppm | KB | 01-NOV-99 | | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | K | <5.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | MG | <1.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | NA | <5.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 16-NOV-99 | | 353.2 |
| | | | PB | <0.003 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | SE | <0.005 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 02-NOV-99 | | 9036 |
| | | | TDS | <10. | ppm | DC | 29-OCT-99 | | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | BD | 09-DEC-99 | | 289.1 |
| | | | AS | 105 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CA | 102 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | CD | 104 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| WG991110-8 | | Lab Control Sample | CL- | 102 | \$Recovery | JN | 01-NOV-99 | | 325.2 |
| | | | COND. | 99 | \$Recovery | BD | 29-OCT-99 | | 120.1 |
| | | | CR | 102 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | CU | 100 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | F- | 97 | \$Recovery | KB | 01-NOV-99 | | 340.2 |
| | | | FE | 81 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | HCO3 | 100 | \$Recovery | DC | 19-NOV-99 | | 310.1 |
| | | | K | 96 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | MG | 98 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | NA | 97 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | NO2/NO3 | 96 | \$Recovery | JN | 16-NOV-99 | | 353.2 |
| | | | PB | 102 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | SE | 108 | \$Recovery | KB | 16-NOV-99 | | 6020 |
| | | | SO4= | 99 | \$Recovery | JN | 02-NOV-99 | | 9036 |
| | | | TDS | 99 | \$Recovery | DC | 29-OCT-99 | | 160.1 |
| | | | TSS | 99 | \$Recovery | DC | 29-OCT-99 | | 160.2 |
| | | | ZN | 105 | \$Recovery | BD | 09-DEC-99 | | 289.1 |

ASARCO TECHNICAL SERVICES CENTER


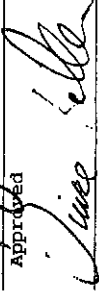
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991110

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID | DRYS METHOD |
|------------|----------------|-------------|-----------|---------|-------|---------|---------------|-------|-------------|
| WG991110-9 | | Duplicate | AS | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | CA | 2.3 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | CD | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | CL- | <1 | % RPD | JN | 01-NOV-99 | 325.2 | |
| | | | CO3 | <1 | % RPD | DC | 19-NOV-99 | 310.1 | |
| | | | COND. | <1 | % RPD | BD | 29-OCT-99 | 120.1 | |
| | | | CR | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | CU | <1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | F- | 5.8 | % RPD | KB | 01-NOV-99 | 340.2 | |
| | | | FE | <1 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | HCO3 | 1.1 | % RPD | DC | 19-NOV-99 | 310.1 | |
| | | | K | 5.1 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | MG | 5.1 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | NA | 2.5 | % RPD | MK | 12-NOV-99 | 6010 | |
| | | | NO2/NO3 | 10 | % RPD | JN | 16-NOV-99 | 353.2 | |
| | | | PB | +/-prdl | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | SE | 6.1 | % RPD | KB | 16-NOV-99 | 6020 | |
| | | | SO4= | 5.5 | % RPD | JN | 02-NOV-99 | 9036 | |
| | | | TDS | 3.2 | % RPD | DC | 29-OCT-99 | 160.1 | |
| | | | TSS | <1 | % RPD | DC | 29-OCT-99 | 160.2 | |
| | | | ZN | <1 | % RPD | BD | 09-DEC-99 | 289.1 | |


 Approved

 Reviewer

| PROJ. NO. | | PROJECT NAME | | NO. OF CONTAINERS | ANALYSIS | | | | | | | REMARKS | |
|--------------------------|------|----------------|------|---|---------------|---|--------------------------------|------------|----------------------------------|--|------|---------|-----|
| DATE | TIME | COMP. | GRAB | | SAMPLE NUMBER | Commons UF/RAW | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | Total Recoverable Metals UF/HNO ₃ | BTEX | | TPH |
| 10/25/99 | 1430 | | | | 3 Bottles | X | | | X | | | | |
| | 1530 | | | | | X | | | X | | | | |
| | 1615 | | | | | X | | | X | | | | |
| | 1635 | | | | | X | | | X | | | | |
| | 1640 | | | | | X | | | X | | | | |
| | 1650 | | | | | X | | | X | | | | |
| 10/26/99 | 1015 | | | | | X | | | X | | | | |
| | 1130 | | | | | X | | | X | | | | |
| | 1200 | | | | | X | | | X | | | | |
| | 1415 | | | | | X | | | X | | | | |
| | 1430 | | | | | X | | | X | | | | |
| | 1456 | | | | | X | | | X | | | | |
| | 1515 | | | | | X | | | X | | | | |
| | 1530 | | | | | X | | | X | | | | |
| | 1600 | | | | | X | | | X | | | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Lab | | P.O. # | | Shipped via: Bus Fed Ex, UPS | | Other | |
| [Signature] | | 10/25/99 16:00 | | [Signature] | | Salt Lake City, UT | | | | | | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Remarks | | | | | | | |
| [Signature] | | | | [Signature] | | #162 | | | | | | | |
| Relinquished (Signature) | | Date/Time | | Received for Laboratory by: (Signature) | | Enclosed: | | | | | | | |
| [Signature] | | | | [Signature] | | <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: | | | | | | | | | | | | | |
| [] Accepted | | | | | | | | | | | | | |
| [] 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 | | REMARKS | | | | | | |
|--------------------------|--|----------------------|--|---|--|--|--|--------|--|---|--|--|
| 0931 | | ASARCO - El Paso, TX | | 3 BOTTLES | | <div style="display: flex; justify-content: space-between;"> <div> <p>Shipped via: <input checked="" type="checkbox"/> Bus, <input type="checkbox"/> Fed Ex, <input type="checkbox"/> UPS</p> <p>Other Air Bill #</p> </div> <div> <p>P.O. #</p> </div> </div> | | | | | | |
| SAMPLERS: (Signature) | | | | | | | | | | | | |
| Gordon Levin | | | | | | | | | | | | |
| DATE | | | | TIME | | | | | | | | |
| SAMPLE NUMBER | | | | | | | | | | | | |
| 10/28/99 | | 0830 | | EPRI-9911-106 | | <div style="display: flex; justify-content: space-between;"> <div> <p>Commons UF/RAW</p> <p>Nutrients UF/H₂SO₄</p> <p>Diss. Metal F/HNO₃</p> <p>CN UF/NaOH</p> <p>Total Metals UF/HNO₃</p> <p>Total Recoverable Metals UF/HNO₃</p> <p>BTEX</p> <p>TPH</p> </div> <div> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> </div> </div> | | | | | | |
| 10/28/99 | | 0915 | | EPRI-9911-105 | | X | | | | | | |
| 10/28/99 | | 1015 | | EPRI-9911-107 | | X | | | | | | |
| 10/28/99 | | 1111 | | EPRI-9911-155 | | X | | | | | | |
| 10/28/99 | | 1115 | | EPRI-9911-225 | | X | | | | | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Lab | | P.O. # | | Shipped via: Bus, <input checked="" type="checkbox"/> Fed Ex, <input type="checkbox"/> UPS | | |
| Salt Chambers | | 10/28/99 1600 | | | | Salt Lake City, UT | | | | Other Air Bill # | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | 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 for Laboratory by: (Signature) | | Date/Time | | | | Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined | | |
| Relinquished (Signature) | | Date/Time | | Received for Laboratory by: (Signature) | | Date/Time | | | | Return results & electronic copy to: | | |
| Relinquished (Signature) | | Date/Time | | Received for Laboratory by: (Signature) | | Date/Time | | | | HFIRM- | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991936

| LAB NO | DATE | CONDUCTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|-----------|-----------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991936-001 | 28-OCT-99 | | EPRI-9911-226 | AS | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | CA | <1.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | CD | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | CL- | <1.0 | ppm | JN | 19-NOV-99 | 28 | 325.2 |
| | | | | CO3 | <1.0 | ppm | DC | 03-NOV-99 | | 310.1 |
| | | | | COND. | <5.0 | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| | | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | | F- | <0.050 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | HCO3 | <1.0 | ppm | DC | 03-NOV-99 | 14 | 310.1 |
| | | | | K | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | MG | <1.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | NA | <5.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | NO2/NO3 | 0.11 | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | PH | 5.8 | pH | DC | 03-NOV-99 | | 150.1 |
| | | | | SE | <0.005 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | SO4= | <2.0 | ppm | JN | 11-NOV-99 | 28 | 9036 |
| | | | | TDS | 2.6 | ppm | DC | 03-NOV-99 | 7 | 160.1 |
| | | | | TSS | <1.0 | ppm | DC | 03-NOV-99 | | 160.2 |
| | | | | ZN | <0.020 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| L991936-002 | 28-OCT-99 | | EPRI-9911-137 | AS | 0.80 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | CA | 279. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | CD | 0.009 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | CL- | 614. | ppm | JN | 19-NOV-99 | 28 | 325.2 |
| | | | | CO3 | <1.0 | ppm | DC | 03-NOV-99 | | 310.1 |
| | | | | COND. | 6220. | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| | | | | CR | <0.010 | ppm | KB | 16-NOV-99 | 180 | 6020 |
| | | | | CU | <0.025 | ppm | KB | 16-NOV-99 | | 6020 |
| | | | | F- | 1.1 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | HCO3 | 236. | ppm | DC | 03-NOV-99 | 14 | 310.1 |
| | | | | K | 17. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | MG | 143. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | NA | 852. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | NO2/NO3 | 39. | ppm | JN | 11-NOV-99 | 28 | 353.2 |
| | | | | PB | <0.003 | ppm | KB | 16-NOV-99 | 180 | 6020 |



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991938

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991938-016 | 01-NOV-99 | EPRI-9911-186 | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | F- | 0.80 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | FE | 0.54 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 202. | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 12. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | MG | 29. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NA | 263. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.81 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| | | | PB | 0.007 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | PH | 8.4 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 450. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 2069. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | 33. | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 0.064 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| L991938-017 | 01-NOV-99 | EPRI-9911-234 | AS | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CL- | <1.0 | ppm | JN | 18-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | F- | <0.050 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | <1.0 | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | <5.0 | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | MG | <1.0 | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.26 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | PH | 6.2 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 2.2 | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 817. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 23-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991938

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------------------------------|----------------|-------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991938-018 01-NOV-99 EPRI-9911-187 | | | | | | | | | |
| AS | | | AS | 0.006 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| CA | | | CA | 107. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| CD | | | CD | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| CL- | | | CL- | 215. | ppm | JN | 18-NOV-99 | 28 | 325.2 |
| CO3 | | | CO3 | <1.0 | ppm | DC | 08-NOV-99 | | 310.1 |
| COND. | | | COND. | 1830. | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| CR | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| CU | | | CU | <0.025 | ppm | KB | 23-NOV-99 | | 6020 |
| F- | | | F- | 0.73 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| FE | | | FE | 0.20 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| HCO3 | | | HCO3 | 222. | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| K | | | K | 11. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| MG | | | MG | 27. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| NA | | | NA | 235. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| NO2/NO3 | | | NO2/NO3 | 1.3 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| PB | | | PB | 0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| PH | | | PH | 8.4 | pH | DC | 08-NOV-99 | | 150.1 |
| SE | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| SO4= | | | SO4= | 416. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| TDS | | | TDS | 833. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| TSS | | | TSS | 33. | ppm | DC | 04-NOV-99 | | 160.2 |
| ZN | | | ZN | 0.062 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| L991938-019 01-NOV-99 EPRI-9911-185 | | | | | | | | | |
| AS | | | AS | 0.006 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| CA | | | CA | 104. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| CD | | | CD | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| CL- | | | CL- | 188. | ppm | JN | 18-NOV-99 | 28 | 325.2 |
| CO3 | | | CO3 | <1.0 | ppm | DC | 08-NOV-99 | | 310.1 |
| COND. | | | COND. | 1826. | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| CR | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| CU | | | CU | <0.025 | ppm | KB | 23-NOV-99 | | 6020 |
| F- | | | F- | 0.73 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| FE | | | FE | 0.27 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| HCO3 | | | HCO3 | 222. | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| K | | | K | 11. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| MG | | | MG | 25. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| NA | | | NA | 223. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| NO2/NO3 | | | NO2/NO3 | 1.3 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| PB | | | PB | 0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991938

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|---------|-----------|---------|---------------|-----------|--------|
| L991938-019 | 01-NOV-99 | EPRI-9911-185 | PH | 6.4 | | DC | 08-NOV-99 | 150.1 | |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 417. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 1186. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | 33. | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 0.067 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | AS | 0.010 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CA | 106. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CL- | 206. | ppm | JN | 18-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | CaCO3 | DC | 08-NOV-99 | 310.1 |
| | | | COND. | 1972. | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| L991938-020 | 02-NOV-99 | EPRI-9911-157 | CU | <0.025 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | F- | 0.78 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | FE | 0.73 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 237. | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 11. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | MG | 28. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NA | 240. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.62 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| | | | PB | 0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | PH | 8.4 | ph | DC | 08-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 415. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 1294. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| L991938-021 | 02-NOV-99 | EPRI-9911-168 | TSS | 37. | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | AS | 2.1 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CA | 850. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | 286. | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CL- | 24148. | ppm | JN | 18-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | CaCO3 | DC | 08-NOV-99 | 310.1 |
| | | | COND. | 215000. | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| | | | CR | <0.050* | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CU | 7.1 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | F- | 121. | ppm | BD | 08-NOV-99 | 28 | 340.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991938

| LAB NO | DATE
COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE
ANALYZED | HOLD
DATE | METHOD |
|-------------|-------------------|---------------|-----------|---------|-----------|---------|------------------|--------------|--------|
| L991938-021 | 02-NOV-99 | EPRI-9911-168 | FE | <0.10 | | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 481. | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 4074. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | MG | 3445. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NA | 42350. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 1112. | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| | | | PB | 1.8 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | PH | 8.1 | PH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | 11. | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 80035. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 147412. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | 1703. | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 58. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | AS | 2.4 | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | CA | 79. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | 0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CL- | 146. | ppm | JN | 18-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 3010. | umhos/cm2 | ED | 04-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | F- | 6.4 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | FE | 0.87 | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 163. | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| L991938-022 | 02-NOV-99 | EPRI-9911-165 | K | 29. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | MG | 18. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NA | 495. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.17 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| | | | PB | 0.006 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | PH | 7.9 | PH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 827. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 1980. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | 1.5 | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 0.061 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | AS | 2.3 | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | CA | 75. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | | | | | | | |
| | | | | | | | | | |
| L991938-023 | 02-NOV-99 | EPRI-9911-236 | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991938

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | SOLD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|
| L991938-023 | 02-NOV-99 | EPRI-9911-236 | CD | 0.006 | ppm | KB | 23-NOV-99 | 180 |
| | | | CL- | 309. | ppm | JN | 18-NOV-99 | 28 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 325.2 |
| | | | COND. | 3020. | umhos/cm2 | BD | 04-NOV-99 | 28 |
| | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 |
| | | | CU | <0.025 | ppm | KB | 23-NOV-99 | 6020 |
| | | | F- | 6.5 | ppm | BD | 08-NOV-99 | 28 |
| | | | FE | 0.83 | ppm | MK | 12-NOV-99 | 180 |
| | | | HCO3 | 162. | ppm CaCO3 | DC | 08-NOV-99 | 14 |
| | | | K | 28. | ppm | MK | 13-NOV-99 | 180 |
| | | | MG | 17. | ppm | MK | 13-NOV-99 | 180 |
| | | | NA | 482. | ppm | MK | 13-NOV-99 | 180 |
| | | | NO2/NO3 | 0.11 | ppm | JN | 22-NOV-99 | 28 |
| | | | PB | 0.009 | ppm | KB | 23-NOV-99 | 180 |
| | | | PH | 8.0 | pH | DC | 08-NOV-99 | 150.1 |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 180 |
| | | | SO4= | 835. | ppm | JN | 24-NOV-99 | 28 |
| | | | TDS | 1976. | ppm | DC | 04-NOV-99 | 7 |
| | | | TSS | 1.1 | ppm | DC | 04-NOV-99 | 160.1 |
| | | | ZN | 0.063 | ppm | KB | 23-NOV-99 | 180 |
| | | | | | | | | 6020 |
| L991938-024 | 02-NOV-99 | EPRI-9911-166 | AS | 0.037 | ppm | KB | 23-NOV-99 | 180 |
| | | | CA | 91. | ppm | MK | 12-NOV-99 | 180 |
| | | | CD | 0.007 | ppm | KB | 23-NOV-99 | 180 |
| | | | CL- | 342. | ppm | JN | 18-NOV-99 | 28 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 325.2 |
| | | | COND. | 3300. | umhos/cm2 | BD | 04-NOV-99 | 28 |
| | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 180 |
| | | | CU | 0.069 | ppm | KB | 23-NOV-99 | 6020 |
| | | | F- | 1.7 | ppm | BD | 08-NOV-99 | 28 |
| | | | FE | 0.12 | ppm | MK | 12-NOV-99 | 180 |
| | | | HCO3 | 249. | ppm CaCO3 | DC | 08-NOV-99 | 14 |
| | | | K | 9.6 | ppm | MK | 13-NOV-99 | 180 |
| | | | MG | 51. | ppm | MK | 13-NOV-99 | 180 |
| | | | NA | 539. | ppm | MK | 13-NOV-99 | 180 |
| | | | NO2/NO3 | 4.7 | ppm | JN | 22-NOV-99 | 28 |
| | | | PB | 0.013 | ppm | KB | 23-NOV-99 | 180 |
| | | | PH | 8.0 | pH | DC | 08-NOV-99 | 150.1 |
| | | | SE | 0.066 | ppm | KB | 23-NOV-99 | 180 |
| | | | | | | | | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991938

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | SOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991938-024 | 02-NOV-99 | EPRI-9911-166 | SO4= | 1058. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 2281. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | 4.1 | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 0.11 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | AS | 0.45 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CA | 95. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | 0.17 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CL- | 243. | ppm | | | | |
| | | | CO3 | <1.0 | ppm CaCO3 | JN | 18-NOV-99 | 28 | 325.2 |
| | | | COND. | 1702. | umhos/cm2 | DC | 08-NOV-99 | | 310.1 |
| L991938-025 | 02-NOV-99 | EPRI-9911-169 | CR | <0.010 | ppm | BD | 04-NOV-99 | 28 | 120.1 |
| | | | CU | 0.56 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | F- | 1.7 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | FE | 0.55 | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | HCO3 | 135. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | K | 11. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | MG | 17. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NA | 222. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.16 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| | | | PB | 0.12 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| L991938-026 | 02-NOV-99 | EPRI-9911-118 | PH | 9.2 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | 0.012 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 338. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 1032. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | 34. | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 0.44 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | AS | 221. | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CA | 462. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | CD | 13. | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CL- | 840. | ppm | JN | 18-NOV-99 | 28 | 325.2 |
| L991938-026 | 02-NOV-99 | EPRI-9911-118 | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 10440. | umhos/cm2 | BD | 04-NOV-99 | 28 | 120.1 |
| | | | CR | 0.023 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | CU | 1.2 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | F- | 15. | ppm | BD | 08-NOV-99 | 28 | 340.2 |
| | | | FE | 631. | ppm | MK | 12-NOV-99 | 180 | 6010 |
| | | | HCO3 | 34. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991938

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-------|---------|---------------|-----------|--------|
| L991938-026 | 02-NOV-99 | EPRI-9911-118 | K | 265. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | MG | 231. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NA | 1070. | ppm | MK | 13-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.85 | ppm | JN | 22-NOV-99 | 28 | 353.2 |
| | | | PB | 0.78 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | PH | 5.4 | pH | DC | 08-NOV-99 | 150.1 | |
| | | | SE | 0.11 | ppm | KB | 23-NOV-99 | 180 | 6020 |
| | | | SO4= | 4941. | ppm | JN | 24-NOV-99 | 28 | 9036 |
| | | | TDS | 10031. | ppm | DC | 04-NOV-99 | 7 | 160.1 |
| | | | TSS | 329. | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 420. | ppm | MK | 13-NOV-99 | 180 | 6010 |

PH is a field parameter therefore holding time cannot be met by the laboratory.
 Digestion Methods for totals ---3010 and 6020.
 Detection Limit for chromium has been raised for L991938-21 due to matrix interferences.

[Signature]
 Approved

[Signature]
 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991112

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|--------|------------|---------|---------------|-----------|--------|
| WG991112-1 | | Matrix Spike | AS | 98 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | CD | 88 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | CL- | 100 | \$Recovery | JN | 18-NOV-99 | | 325.2 |
| | | | CR | 102 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | CU | 90 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | F- | 99 | \$Recovery | BD | 08-NOV-99 | | 340.2 |
| | | | FE | 104 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | NO2/NO3 | 106 | \$Recovery | JN | 22-NOV-99 | | 353.2 |
| | | | PB | 83 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | SE | 93 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | SO4= | 94 | \$Recovery | JN | 11-NOV-99 | | 9036 |
| | | | ZN | 90 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| WG991112-2 | | Prep Blank | AS | <0.005 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | CD | <0.005 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | CL- | <1.0 | ppm | JN | 18-NOV-99 | | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 04-NOV-99 | | 120.1 |
| | | | CR | <0.010 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | CU | <0.025 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | F- | <0.050 | ppm | BD | 08-NOV-99 | | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | K | <5.0 | ppm | MK | 13-NOV-99 | | 6010 |
| | | | MG | <1.0 | ppm | MK | 13-NOV-99 | | 6010 |
| | | | NA | <5.0 | ppm | MK | 13-NOV-99 | | 6010 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 22-NOV-99 | | 353.2 |
| | | | PB | <0.003 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 11-NOV-99 | | 9036 |
| | | | TDS | <10. | ppm | DC | 04-NOV-99 | | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 23-NOV-99 | | 6020 |
| WG991112-3 | | Lab Control Sample | AS | 102 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | CA | 102 | \$Recovery | MK | 12-NOV-99 | | 6010 |
| | | | CD | 103 | \$Recovery | KB | 23-NOV-99 | | 6020 |
| | | | CL- | 102 | \$Recovery | JN | 18-NOV-99 | | 325.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991112

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|-------------|---------|---------------|-----------|--------|
| WG991112-3 | | Lab Control Sample | COND. | 100 | | | | | |
| | | | CR | 98 | \$ Recovery | BD | 04-NOV-99 | 120.1 | |
| | | | CU | 99 | \$ Recovery | KB | 23-NOV-99 | 6020 | |
| | | | F- | 94 | \$ Recovery | KB | 23-NOV-99 | 6020 | |
| | | | FE | 122 | \$ Recovery | BD | 08-NOV-99 | 340.2 | |
| | | | HCO3 | 100 | \$ Recovery | MK | 12-NOV-99 | 6010 | |
| | | | K | 96 | \$ Recovery | DC | 08-NOV-99 | 310.1 | |
| | | | MG | 101 | \$ Recovery | MK | 13-NOV-99 | 6010 | |
| | | | NA | 95 | \$ Recovery | MK | 13-NOV-99 | 6010 | |
| | | | NO2/NO3 | 101 | \$ Recovery | JN | 22-NOV-99 | 353.2 | |
| | | | PB | 103 | \$ Recovery | KB | 23-NOV-99 | 6020 | |
| | | | SE | 105 | \$ Recovery | KB | 23-NOV-99 | 6020 | |
| | | | SO4= | 100 | \$ Recovery | JN | 11-NOV-99 | 9036 | |
| | | | TDS | 103 | \$ Recovery | DC | 04-NOV-99 | 160.1 | |
| | | | TSS | 104 | \$ Recovery | DC | 04-NOV-99 | 160.2 | |
| | | | ZN | 105 | \$ Recovery | KB | 23-NOV-99 | 6020 | |
| WG991112-4 | | Duplicate | AS | 4.1 | \$ RPD | KB | 23-NOV-99 | 6020 | |
| | | | CA | 8.5 | \$ RPD | MK | 12-NOV-99 | 6010 | |
| | | | CD | <1 | \$ RPD | KB | 23-NOV-99 | 6020 | |
| | | | CL- | <1 | \$ RPD | JN | 18-NOV-99 | 325.2 | |
| | | | CO3 | <1 | \$ RPD | DC | 08-NOV-99 | 310.1 | |
| | | | COND. | <1 | \$ RPD | BD | 04-NOV-99 | 120.1 | |
| | | | CR | <1 | \$ RPD | KB | 23-NOV-99 | 6020 | |
| | | | CU | 7.7 | \$ RPD | KB | 23-NOV-99 | 6020 | |
| | | | F- | 1.6 | \$ RPD | BD | 08-NOV-99 | 340.2 | |
| | | | FE | 5.7 | \$ RPD | MK | 12-NOV-99 | 6010 | |
| | | | HCO3 | 2.8 | \$ RPD | DC | 08-NOV-99 | 310.1 | |
| | | | K | 5.4 | \$ RPD | MK | 13-NOV-99 | 6010 | |
| | | | MG | 6.3 | \$ RPD | MK | 13-NOV-99 | 6010 | |
| | | | NA | 3.4 | \$ RPD | MK | 13-NOV-99 | 6010 | |
| | | | NO2/NO3 | 4.0 | \$ RPD | JN | 22-NOV-99 | 353.2 | |
| | | | PB | 6.9 | \$ RPD | KB | 23-NOV-99 | 6020 | |
| | | | SE | <1 | \$ RPD | KB | 23-NOV-99 | 6020 | |
| | | | SO4= | 1.0 | \$ RPD | JN | 11-NOV-99 | 9036 | |
| | | | TDS | 1.1 | \$ RPD | DC | 04-NOV-99 | 160.1 | |
| | | | TSS | 3.1 | \$ RPD | DC | 04-NOV-99 | 160.2 | |
| | | | ZN | +/-prdl | \$ RPD | KB | 23-NOV-99 | 6020 | |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991112

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FOUND |
|------------|----------------|------------------------------|-----------|--------|------------|---------|---------------|-------|
| WG991112-5 | | 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 | 0.050 | ppm | | | 353.2 |
| | | | PE | 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 |
| WG991112-6 | | Matrix Spike | | | | | | |
| | | | AS | 96 | \$Recovery | MK | 13-NOV-99 | 6010 |
| | | | CD | 96 | \$Recovery | KB | 23-NOV-99 | 6020 |
| | | | CL- | 90 | \$Recovery | JN | 18-NOV-99 | 325.2 |
| | | | CR | 98 | \$Recovery | KB | 23-NOV-99 | 6020 |
| | | | CU | 92 | \$Recovery | KB | 23-NOV-99 | 6020 |
| | | | F- | 100 | \$Recovery | RD | 08-NOV-99 | 340.2 |
| | | | FE | 93 | \$Recovery | MK | 12-NOV-99 | 6010 |
| | | | NO2/NO3 | 104 | \$Recovery | JN | 22-NOV-99 | 353.2 |
| | | | PE | 100 | \$Recovery | KB | 23-NOV-99 | 6020 |
| | | | SE | 105 | \$Recovery | KB | 23-NOV-99 | 6020 |
| | | | SO4= | 99 | \$Recovery | JN | 11-NOV-99 | 9036 |
| | | | ZN | 91 | \$Recovery | MK | 13-NOV-99 | 6010 |
| WG991112-7 | | Prep Blank | | | | | | |
| | | | AS | <0.020 | ppm | MK | 13-NOV-99 | 6010 |
| | | | CA | <1.0 | ppm | MK | 12-NOV-99 | 6010 |
| | | | CD | <0.005 | ppm | KB | 23-NOV-99 | 6020 |
| | | | CL- | <1.0 | ppm | JN | 18-NOV-99 | 325.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991112

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FIELD METHOD |
|------------|----------------|--------------------|-----------|--------|-----------|---------|---------------|--------------|
| WG991112-7 | | Prep Blank | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 04-NOV-99 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 23-NOV-99 | 6020 |
| | | | CU | <0.025 | ppm | KB | 23-NOV-99 | 6020 |
| | | | F- | <0.050 | ppm | BD | 08-NOV-99 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 12-NOV-99 | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 310.1 |
| | | | K | <5.0 | ppm | MK | 13-NOV-99 | 6010 |
| | | | MG | <1.0 | ppm | MK | 13-NOV-99 | 6010 |
| | | | NA | <5.0 | ppm | MK | 13-NOV-99 | 6010 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 22-NOV-99 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 23-NOV-99 | 6020 |
| | | | SE | <0.005 | ppm | KB | 23-NOV-99 | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 11-NOV-99 | 9036 |
| | | | TDS | <10. | ppm | DC | 04-NOV-99 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 04-NOV-99 | 160.2 |
| | | | ZN | <0.020 | ppm | MK | 13-NOV-99 | 6010 |
| WG991112-8 | | Lab Control Sample | AS | 97 | %Recovery | MK | 13-NOV-99 | 6010 |
| | | | CA | 101 | %Recovery | MK | 12-NOV-99 | 6010 |
| | | | CD | 102 | %Recovery | KB | 23-NOV-99 | 6020 |
| | | | CL- | 104 | %Recovery | JN | 18-NOV-99 | 325.2 |
| | | | COND. | 99 | %Recovery | BD | 04-NOV-99 | 120.1 |
| | | | CR | 102 | %Recovery | KB | 23-NOV-99 | 6020 |
| | | | CU | 95 | %Recovery | KB | 23-NOV-99 | 6020 |
| | | | F- | 100 | %Recovery | BD | 08-NOV-99 | 340.2 |
| | | | FE | 100 | %Recovery | MK | 12-NOV-99 | 6010 |
| | | | HCO3 | 102 | %Recovery | DC | 08-NOV-99 | 310.1 |
| | | | K | 97 | %Recovery | MK | 13-NOV-99 | 6010 |
| | | | MG | 101 | %Recovery | MK | 13-NOV-99 | 6010 |
| | | | NA | 98 | %Recovery | MK | 13-NOV-99 | 6010 |
| | | | NO2/NO3 | 99 | %Recovery | JN | 22-NOV-99 | 353.2 |
| | | | PB | 102 | %Recovery | KB | 23-NOV-99 | 6020 |
| | | | SE | 100 | %Recovery | KB | 23-NOV-99 | 6020 |
| | | | SO4= | 98 | %Recovery | JN | 11-NOV-99 | 9036 |
| | | | TDS | 98 | %Recovery | DC | 04-NOV-99 | 160.1 |
| | | | TSS | 98 | %Recovery | DC | 04-NOV-99 | 160.2 |
| | | | ZN | 99 | %Recovery | MK | 13-NOV-99 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991112

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | METHOD |
|------------|----------------|-------------|-----------|-------|-------|---------|---------------|-----------|--------|
| WG991112-9 | | Duplicate | AS | <1 | % RPD | MK | 13-NOV-99 | | 6010 |
| | | | CA | 2.8 | % RPD | MK | 12-NOV-99 | | 6010 |
| | | | CD | <1 | % RPD | KB | 23-NOV-99 | | 6020 |
| | | | CL- | 1.7 | % RPD | JN | 18-NOV-99 | | 325.2 |
| | | | CO3 | <1 | % RPD | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | <1 | % RPD | BD | 04-NOV-99 | | 120.1 |
| | | | CR | <1 | % RPD | KB | 23-NOV-99 | | 6020 |
| | | | CU | <1 | % RPD | KB | 23-NOV-99 | | 6020 |
| | | | F- | 4.0 | % RPD | BD | 08-NOV-99 | | 340.2 |
| | | | FE | <1 | % RPD | MK | 12-NOV-99 | | 6010 |
| | | | HCO3 | 6.1 | % RPD | DC | 08-NOV-99 | | 310.1 |
| | | | K | 8.7 | % RPD | MK | 13-NOV-99 | | 6010 |
| | | | MG | 3.5 | % RPD | MK | 13-NOV-99 | | 6010 |
| | | | NA | 3.3 | % RPD | MK | 13-NOV-99 | | 6010 |
| | | | NO2/NO3 | 2.4 | % RPD | JN | 22-NOV-99 | | 353.2 |
| | | | PB | <1 | % RPD | KB | 23-NOV-99 | | 6020 |
| | | | SE | <1 | % RPD | KB | 23-NOV-99 | | 6020 |
| | | | SO4= | 2.7 | % RPD | JN | 11-NOV-99 | | 9036 |
| | | | TDS | 1.4 | % RPD | DC | 04-NOV-99 | | 160.1 |
| | | | TSS | 4.4 | % RPD | DC | 04-NOV-99 | | 160.2 |
| | | | ZN | 5.3 | % RPD | MK | 13-NOV-99 | | 6010 |

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991962

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE | | HOLD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|-----------|------|-------|
| | | | | | | | ANALYZED | DAYS | |
| L991962-001 | 02-NOV-99 | EPRI-9911-119 | AS | 0.97 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CA | 582. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | 0.034 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 1759. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 9920. | unhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | 3.0 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | 0.25 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | 1.9 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | 4.2 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | 181. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 34. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | 378. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | 958. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 202. | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PB | 0.038 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | PH | 7.3 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | 0.29 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SO4= | 2133. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 6873. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | TSS | 31. | ppm | DC | 08-NOV-99 | | 160.2 |
| | | | ZN | 0.50 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| L991962-002 | 02-NOV-99 | EPRI-9911-237 | AS | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CA | <1.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | <1.0 | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | <5.0 | unhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | <0.050 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | <5.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | <1.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 03-DEC-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991962

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE | | HOLD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|-----------|------|-------|
| | | | | | | | ANALYZED | PAID | |
| L991962-002 | 02-NOV-99 | EPRI-9911-237 | PH | 6.2 | | DC | 08-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 54. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 08-NOV-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | AS | 0.50 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CA | 116. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 244. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 3230. | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 03-DEC-99 | | 6020 |
| L991962-003 | 03-NOV-99 | EPRI-9911-125 | F- | 1.0 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | 6.7 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | 1405. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 21. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | 94. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | 413. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.11 | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PB | 0.012 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | PH | 7.5 | ppm | DC | 08-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SO4= | 426. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 2124. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | TSS | 2811. | ppm | DC | 08-NOV-99 | | 160.2 |
| | | | ZN | 0.030 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| L991962-004 | 03-NOV-99 | EPRI-9911-126 | AS | 4.2 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CA | 518. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 960. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 11310. | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | 0.020 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | 0.11 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | 5.2 | ppm | BD | 12-NOV-99 | 28 | 340.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991962

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD |
|-------------|----------------|---------------|-----------|--------|------------|---------|---------------|-------|
| L991962-004 | 03-NOV-99 | EPRI-9911-126 | FE | 30. | ppm | MK | 24-NOV-99 | 180 |
| | | | HCO3 | 1684. | ppm | DC | 08-NOV-99 | 14 |
| | | | K | 192. | ppm | MK | 24-NOV-99 | 180 |
| | | | MG | 215. | ppm | MK | 24-NOV-99 | 180 |
| | | | NA | 1678. | ppm | MK | 24-NOV-99 | 180 |
| | | | NO2/NO3 | 0.071 | ppm | JN | 30-NOV-99 | 28 |
| | | | PB | 0.082 | ppm | KB | 03-DEC-99 | 180 |
| | | | PH | 7.0 | pH | LC | 08-NOV-99 | 150.1 |
| | | | SE | 0.10 | ppm | KB | 03-DEC-99 | 180 |
| | | | SO4= | 4936. | ppm | JN | 29-NOV-99 | 28 |
| | | | TDS | 8727. | ppm | LC | 08-NOV-99 | 7 |
| | | | TSS | 3932. | ppm | DC | 08-NOV-99 | 160.1 |
| | | | ZN | 0.15 | ppm | KB | 03-DEC-99 | 180 |
| | | | AS | 0.039 | ppm | KB | 03-DEC-99 | 180 |
| | | | CA | 397. | ppm | MK | 24-NOV-99 | 180 |
| | | | CD | <0.005 | ppm | CB | 03-DEC-99 | 180 |
| | | | CL- | 708. | ppm | JN | 24-NOV-99 | 28 |
| | | | CO3 | <1.0 | ppm | DC | 08-NOV-99 | 310.1 |
| | | | COND. | 8180. | unthos/cm2 | BD | 12-NOV-99 | 28 |
| | | | CR | 0.021 | ppm | KB | 03-DEC-99 | 180 |
| | | | CU | 0.091 | ppm | KB | 03-DEC-99 | 6020 |
| | | | F- | 1.8 | ppm | BD | 12-NOV-99 | 28 |
| | | | FE | 14. | ppm | MK | 24-NOV-99 | 180 |
| | | | HCO3 | 397. | ppm | DC | 08-NOV-99 | 14 |
| L991962-005 | 03-NOV-99 | EPRI-9911-129 | K | 20. | ppm | MK | 24-NOV-99 | 180 |
| | | | MG | 176. | ppm | MK | 24-NOV-99 | 180 |
| | | | NA | 1367. | ppm | MK | 24-NOV-99 | 180 |
| | | | NO2/NO3 | 100. | ppm | JN | 30-NOV-99 | 28 |
| | | | PB | 0.035 | ppm | KB | 03-DEC-99 | 180 |
| | | | PH | 7.8 | pH | DC | 08-NOV-99 | 150.1 |
| | | | SE | 0.37 | ppm | KB | 03-DEC-99 | 180 |
| | | | SO4= | 3023. | ppm | JN | 29-NOV-99 | 28 |
| | | | TDS | 6418. | ppm | DC | 08-NOV-99 | 7 |
| | | | TSS | 1608. | ppm | DC | 08-NOV-99 | 160.2 |
| | | | ZN | 0.065 | ppm | KB | 03-DEC-99 | 180 |
| | | | AS | 0.033 | ppm | KB | 03-DEC-99 | 180 |
| | | | CA | 283. | ppm | MK | 24-NOV-99 | 180 |
| L991962-006 | 03-NOV-99 | EPRI-9911-133 | | | | | | |
| | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991962

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991962-006 | 03-NOV-99 | EPRI-9911-133 | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 473. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 6400. | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | 0.026 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | 2.1 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | 0.67 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | 446. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 19. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | 126. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | 1080. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 25. | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PB | 0.007 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | PH | 7.6 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | 0.24 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SO4= | 2545. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 6536. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | TSS | 64. | ppm | DC | 08-NOV-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| L991962-007 | 03-NOV-99 | EPRI-9911-239 | AS | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CA | <1.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | <1.0 | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 310.1 | |
| | | | COND. | <5.0 | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | <0.050 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | <5.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | <1.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | PH | 5.7 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991962

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991962-007 | 03-NOV-99 | EPRI-9911-239 | SO4= | <2.0 | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | <10. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 08-NOV-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | AS | 6.7 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CA | 198. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 683. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 5640. | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| L991962-008 | 03-NOV-99 | EPRI-9911-238 | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | 0.041 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | 2.1 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | 6.2 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | 1311. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 287. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | 31. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | 757. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.12 | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PB | 0.034 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| L991962-009 | 03-NOV-99 | EPRI-9911-112 | PH | 7.5 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | 0.25 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SO4= | 554. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 3270. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | TSS | 126. | ppm | DC | 08-NOV-99 | | 160.2 |
| | | | ZN | 0.026 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | AS | 0.007 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CA | 174. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 1006. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 5200. | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | 0.022 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | 2.5 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | 1.4 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | 1168. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991962

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991962-009 | 03-NOV-95 | EPRI-9911-112 | K | 28. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | 42. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | 853. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.13 | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PH | 0.009 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SE | 7.7 | PH | DC | 08-NOV-99 | 180 | 150.1 |
| | | | SO4= | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | TDS | 266. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TSS | 3092. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | ZN | 73. | ppm | DC | 08-NOV-99 | 160.2 | 160.2 |
| | | | | 0.024 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | AS | 0.15 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CA | 35. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | 0.012 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 586. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 08-NOV-99 | 28 | 310.1 |
| | | | COND. | 5240. | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | 0.13 | ppm | KB | 03-DEC-99 | 6020 | 6020 |
| | | | F- | 6.8 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| L991962-010 | 03-NOV-99 | EPRI-9911-109 | FE | 8.7 | ppm | KB | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | 1590. | ppm | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 294. | ppm | CaCO3 | 24-NOV-99 | 180 | 6010 |
| | | | MG | 40. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | 768. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.12 | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PH | 0.078 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SE | 7.9 | PH | DC | 08-NOV-99 | 150.1 | 150.1 |
| | | | SO4= | 0.015 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | TDS | 114. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TSS | 2963. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | ZN | 177. | ppm | DC | 08-NOV-99 | 160.2 | 160.2 |
| | | | | 1.0 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | AS | 7.8 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CA | 202. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CL- | 893. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| L991962-011 | 03-NOV-99 | EPRI-9911-113 | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

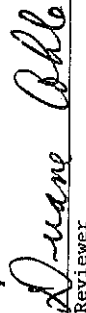
Water and Solid Waste (Project 3220)

Batch No: L991962

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L991962-011 | 03-NOV-99 | EPRI-9911-113 | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | | 310.1 |
| | | | COND. | 6580. | umhos/cm2 | BD | 12-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | CU | 0.060 | ppm | KB | 03-DEC-99 | | 6020 |
| | | | F- | 1.9 | ppm | BD | 12-NOV-99 | 28 | 340.2 |
| | | | FE | 6.7 | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | HCO3 | 885. | ppm CaCO3 | DC | 08-NOV-99 | 14 | 310.1 |
| | | | K | 290. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | MG | 32. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NA | 757. | ppm | MK | 24-NOV-99 | 180 | 6010 |
| | | | NO2/NO3 | 0.12 | ppm | JN | 30-NOV-99 | 28 | 353.2 |
| | | | PB | 0.052 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | PH | 7.3 | pH | DC | 08-NOV-99 | | 150.1 |
| | | | SE | 0.30 | ppm | KB | 03-DEC-99 | 180 | 6020 |
| | | | SO4= | 1507. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 4373. | ppm | DC | 08-NOV-99 | 7 | 160.1 |
| | | | TSS | 169. | ppm | DC | 08-NOV-99 | | 160.2 |
| | | | ZN | 0.038 | ppm | KB | 03-DEC-99 | 180 | 6020 |

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

Approved


Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991113

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| WG991113-1 | | Matrix Spike | AS | 103 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | CD | 103 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | CL- | 101 | %Recovery | JN | 24-NOV-99 | 325.2 | |
| | | | CR | 99 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | CU | 100 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | F- | 97 | %Recovery | BD | 12-NOV-99 | 340.2 | |
| | | | FE | 113 | %Recovery | MK | 24-NOV-99 | 6010 | |
| | | | NO2/NO3 | 88 | %Recovery | JN | 30-NOV-99 | 353.2 | |
| | | | PB | 102 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | SE | 105 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | SO4= | 82 | %Recovery | JN | 29-NOV-99 | 9036 | |
| | | | ZN | 106 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | AS | <0.005 | ppm | KB | 03-DEC-99 | 6020 | |
| | | | CA | <1.0 | ppm | MK | 24-NOV-99 | 6010 | |
| | | | CD | <0.005 | ppm | KB | 03-DEC-99 | 6020 | |
| | | | CL- | <1.0 | ppm | JN | 24-NOV-99 | 325.2 | |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 310.1 | |
| WG991113-2 | | Prep Blank | COND. | <5.0 | umhos/cm2 | BD | 12-NOV-99 | 120.1 | |
| | | | CR | <0.010 | ppm | KB | 03-DEC-99 | 6020 | |
| | | | CU | <0.025 | ppm | KB | 03-DEC-99 | 6020 | |
| | | | F- | <0.050 | ppm | BD | 12-NOV-99 | 340.2 | |
| | | | FE | <0.10 | ppm | MK | 24-NOV-99 | 6010 | |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 08-NOV-99 | 310.1 | |
| | | | K | <5.0 | ppm | MK | 24-NOV-99 | 6010 | |
| | | | Mg | <1.0 | ppm | MK | 24-NOV-99 | 6010 | |
| | | | NA | <5.0 | ppm | MK | 24-NOV-99 | 6010 | |
| | | | NO2/NO3 | <0.050 | ppm | JN | 30-NOV-99 | 353.2 | |
| | | | PB | <0.003 | ppm | KB | 03-DEC-99 | 6020 | |
| | | | SE | <0.005 | ppm | KB | 03-DEC-99 | 6020 | |
| | | | SO4= | <2.0 | ppm | JN | 29-NOV-99 | 9036 | |
| | | | TDS | <10. | ppm | DC | 08-NOV-99 | 160.1 | |
| | | | TSS | <1.0 | ppm | DC | 08-NOV-99 | 160.2 | |
| | | | ZN | <0.020 | ppm | KB | 03-DEC-99 | 6020 | |
| WG991113-3 | | Lab Control Sample | AS | 102 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | CA | 107 | %Recovery | MK | 24-NOV-99 | 6010 | |
| | | | CD | 103 | %Recovery | KB | 03-DEC-99 | 6020 | |
| | | | CL- | 102 | %Recovery | JN | 24-NOV-99 | 325.2 | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991113

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE |
|------------|----------------|--------------------|-----------|-------|-------------|---------|---------------|-----------|
| WG991113-3 | | Lab Control Sample | | | | | | |
| | | | COND. | 99 | \$ Recovery | BD | 12-NOV-99 | 120.1 |
| | | | CR | 97 | \$ Recovery | KB | 03-DEC-99 | 6020 |
| | | | CU | 97 | \$ Recovery | KB | 03-DEC-99 | 6020 |
| | | | F- | 98 | \$ Recovery | BD | 12-NOV-99 | 340.2 |
| | | | FE | 100 | \$ Recovery | BD | 12-NOV-99 | 340.2 |
| | | | HCO3 | 100 | \$ Recovery | MK | 24-NOV-99 | 6010 |
| | | | K | 95 | \$ Recovery | DC | 08-NOV-99 | 310.1 |
| | | | MG | 100 | \$ Recovery | MK | 24-NOV-99 | 6010 |
| | | | NA | 91 | \$ Recovery | MK | 24-NOV-99 | 6010 |
| | | | NO2/NO3 | 93 | \$ Recovery | JN | 30-NOV-99 | 353.2 |
| | | | PB | 101 | \$ Recovery | KB | 03-DEC-99 | 6020 |
| | | | SE | 106 | \$ Recovery | KB | 03-DEC-99 | 6020 |
| | | | SO4= | 98 | \$ Recovery | JN | 29-NOV-99 | 9036 |
| | | | TDS | 98 | \$ Recovery | DC | 08-NOV-99 | 160.1 |
| | | | TSS | 102 | \$ Recovery | DC | 08-NOV-99 | 160.2 |
| | | | ZN | 107 | \$ Recovery | KB | 03-DEC-99 | 6020 |
| WG991113-4 | | Duplicate | | | | | | |
| | | | AS | <1 | \$ RPD | KB | 03-DEC-99 | 6020 |
| | | | CA | 4.7 | \$ RPD | MK | 24-NOV-99 | 6010 |
| | | | CD | <1 | \$ RPD | KB | 03-DEC-99 | 6020 |
| | | | CL- | 3.0 | \$ RPD | JN | 24-NOV-99 | 325.2 |
| | | | CO3 | <1 | \$ RPD | DC | 08-NOV-99 | 310.1 |
| | | | COND. | <1 | \$ RPD | BD | 12-NOV-99 | 120.1 |
| | | | CR | <1 | \$ RPD | KB | 03-DEC-99 | 6020 |
| | | | CU | 3.9 | \$ RPD | KB | 03-DEC-99 | 6020 |
| | | | F- | <1 | \$ RPD | BD | 12-NOV-99 | 340.2 |
| | | | FE | 2.4 | \$ RPD | MK | 24-NOV-99 | 6010 |
| | | | HCO3 | <1 | \$ RPD | DC | 08-NOV-99 | 310.1 |
| | | | K | 5.7 | \$ RPD | MK | 24-NOV-99 | 6010 |
| | | | MG | 5.4 | \$ RPD | MK | 24-NOV-99 | 6010 |
| | | | NA | <1 | \$ RPD | MK | 24-NOV-99 | 6010 |
| | | | NO2/NO3 | 8.6 | \$ RPD | JN | 30-NOV-99 | 353.2 |
| | | | PB | 5.4 | \$ RPD | KB | 03-DEC-99 | 6020 |
| | | | SE | <1 | \$ RPD | KB | 03-DEC-99 | 6020 |
| | | | SO4= | <1 | \$ RPD | JN | 29-NOV-99 | 9036 |
| | | | TDS | 1.8 | \$ RPD | DC | 08-NOV-99 | 160.1 |
| | | | TSS | 1.7 | \$ RPD | DC | 08-NOV-99 | 160.2 |
| | | | ZN | <1 | \$ RPD | KB | 03-DEC-99 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991113

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | DATE | FIELD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|--------|------------|---------|---------------|------|------------|--------|
| WG991113-5 | | 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 | | | | | 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 | | | | | 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 | | | | | 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 |
| WG991113-6 | | Matrix Spike | AS | 99 | % Recovery | MK | 24-NOV-99 | | | 6010 |
| WG991113-7 | | Prep Blank | AS | <0.050 | ppm | MK | 24-NOV-99 | | | 6010 |
| WG991113-8 | | Lab Control Sample | AS | 90 | % Recovery | MK | 24-NOV-99 | | | 6010 |
| WG991113-9 | | Duplicate | AS | 2.8 | % RPD | MK | 24-NOV-99 | | | 6010 |

Approved

Reviewer
Deanne Cable

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

HFORM-1-4/95

Return results & electronic copy to:

Accepted || Declined

0-4-6-9

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 | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | Total Recoverable Metals UF/HNO ₃ | BTX | TPH | REMARKS |
|-----------------------|------|---------------------|------|-------------------|----------------|--------------------------------|------------|----------------------------------|--|-----|-----|---------|
| DATE | TIME | GRAB | COMP | | | | | | | | | |
| 0931 | | Asarco, El Paso, TX | | 3 Bottles | X | | | | | | | |
| SAMPLERS: (Signature) | | Gordon Levin | | | X | | | | | | | |
| 10/00 | 1000 | | | | X | | | | | | | |
| 11/15 | 1115 | | | | X | | | | | | | |
| 12/30 | 1230 | | | | X | | | | | | | |
| 15/15 | 1515 | | | | X | | | | | | | |
| 11/45 | 1145 | | | | X | | | | | | | |
| 10/30 | 1030 | | | X | | | | | | | | |
| 14/30 | 1430 | | | X | | | | | | | | |
| | | | | | | | | | | | | |

| | | | | | |
|--------------------------|---------------|---|--------------------|--|-------------------------------|
| Relinquished (Signature) | Date/Time | Received by: (Signature) | Lab TSC | P.O. # | Shipped via: Bus, Fed Ex, UPS |
| <i>[Signature]</i> | 11/2/99 16:00 | | Salt Lake City, UT | | Other |
| Relinquished (Signature) | Date/Time | Received by: (Signature) | Remarks | | Air Bill # |
| | | | | | |
| Relinquished (Signature) | Date/Time | Received for Laboratory by: (Signature) | Date/Time | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits
<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter
<input type="checkbox"/> Other | |
| | | <i>[Signature]</i> | 11.3.99 1630 | | |

Правда, 11.5

33275 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 | | | | | | | | | | | | | |
|---------------------------------------|----------------------|-------------|------|---|--------------------|--------------------|---|---|------------|--|--|------|-----|---------|
| 0931 | ASARCO - EL PASO, TX | | | | | | | | | | | | | |
| SAMPLERS: (Signature)
Gordon Levin | | | | | | | | | | | | | | |
| DATE | TIME | COMP. | GRAB | SAMPLE NUMBER | NO. OF CON-TAINERS | Commons UF/RAW | Nutrients UF/H ₂ SO ₄ | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | Total Recoverable Metals UF/HNO ₃ | BTEX | TPH | REMARKS |
| 10/30/99 | 6:30 | | | EPR-9911-811 | 3 Bottles | X | X | | | X | | | | |
| | 10:30 | | | EPR-9911-154 | | X | X | | | X | | | | |
| | 11:15 | | | EPR-9911-150 | | X | X | | | X | | | | |
| | 12:00 | | | EPR-9911-149 | | X | X | | | X | | | | |
| | 12:30 | | | EPR-9911-207 | | X | X | | | X | | | | |
| | 15:30 | | | EPR-9911-156 | | X | X | | | X | | | | |
| | 16:20 | | | EPR-9911-167 | | X | X | | | X | | | | |
| | | | | | | | | | | | | | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Lab | | P.O. # | | Shipped via: Bus, Fed Ex, UPS
Other _____
Air Bill # _____ | | | | |
| <i>[Signature]</i> | | 11/19 16:00 | | | | Salt Lake City, UT | | | | | | | | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Remarks | | | | | | | | |
| <i>[Signature]</i> | | | | | | | | | | | | | | |
| 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 | | | | | | |
| <i>[Signature]</i> | | | | <i>[Signature]</i> | | 11:29 11:00 | | | | | | | | |
| Return results & electronic copy to: | | | | | | | | | | HFORM- | | | | |

CHAIN OF CUSTODY RECORD

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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 | |
|--------------------------|------|---|------|-------------------|--|--------------------|---|---|------------|----------------------------------|--|-----|-----|--|--|---------|--|
| 0931 | | ASARCO-EL PASO, TX | | 3 Bottles | | | | | | | | | | | | | |
| SAMPLERS: (Signature) | | | | | | | | | | | | | | | | | |
| Gordon Levin | | | | | | | | | | | | | | | | | |
| DATE | TIME | COMP. | GRAB | SAMPLE NUMBER | | Commons UF/RAW | Nutrients UF/H ₂ SO ₄ | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | Total Recoverable Metals UF/HNO ₃ | BTX | TPH | | | | |
| 10/21/99 | 0915 | | | EPR1-9911-145 | | X | X | | | X | X | | | | | | |
| | 1015 | | | EPR1-9911-152 | | X | X | | | X | X | | | | | | |
| | 1030 | | | EPR1-9911-231 | | X | X | | | X | X | | | | | | |
| | 1100 | | | EPR1-9911-144 | | X | X | | | X | X | | | | | | |
| | 1130 | | | EPR1-9911-148 | | X | X | | | X | X | | | | | | |
| | 1215 | | | EPR1-9911-232 | | X | X | | | X | X | | | | | | |
| / | | | | | | | | | | | | | | | | | |
| Relinquished (Signature) | | Received by: (Signature) | | Date/Time | | Lab | | P.O. # | | Shipped via: Bus, Fed Ex, UPS | | | | | | | |
| [Signature] | | [Signature] | | 11/1/99 16:00 | | BSC | | | | Other | | | | | | | |
| Relinquished (Signature) | | Received by: (Signature) | | Date/Time | | Remarks | | | | | | | | | | | |
| [Signature] | | [Signature] | | | | Salt Lake City, UT | | | | | | | | | | | |
| Relinquished (Signature) | | Received for Laboratory by: (Signature) | | Date/Time | | Date/Time | | Enclosed: | | | | | | | | | |
| [Signature] | | [Signature] | | | | | | <input checked="" type="checkbox"/> Parameter sheet w/detection limits
<input type="checkbox"/> QA/QC/standard mixing instructions
<input type="checkbox"/> Other | | | | | | | | | |

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

| PROJ. NO. | | PROJECT NAME | | NO. OF CONTAINERS | | COMMONS UF/RAW | | NUTRIENTS UF/H ₂ SO ₄ | | DISS. METAL F/HNO ₃ | | CN UF/NaOH | | TOTAL METALS UF/HNO ₃ | | TOTAL RECOVERABLE METALS UF/HNO ₃ | | BTX | | TPH | | REMARKS | |
|-----------|--|----------------------|--|-------------------|--|----------------|--|---|--|--------------------------------|--|------------|--|----------------------------------|--|--|--|-----|--|-----|--|---------|--|
| 0931 | | ASARCO - El Paso, TX | | 3 BOTTLES | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1015 | | EPR1-9911-170 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1100 | | EPR1-9911-186 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1120 | | EPR1-9911-183 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1345 | | EPR1-9911-191 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1410 | | EPR1-9911-184 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1430 | | EPR1-9911-160 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1445 | | EPR1-9911-233 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |
| 1600 | | EPR1-9911-158 | | X | | X | | X | | X | | X | | X | | X | | | | | | | |

RELINQUISHED (SIGNATURE)

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RECEIVED BY: (SIGNATURE)

RECEIVED BY: (SIGNATURE)

RECEIVED BY: (SIGNATURE)

DATE/TIME

DATE/TIME

DATE/TIME

LAB

REMARKS

P.O. #

SHIPPED VIA: BUS, FED EX, UPS
Other
AIR BILL #

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

HFOBM-

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: L992035

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L992035-001 | 18-NOV-99 | EPRI-9911-178 | AS | 118. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CA | 547. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CD | 0.13 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CL- | 937. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 9800. | umhos/cm2 | BD | 23-NOV-99 | 28 | 120.1 |
| | | | CR | 0.019 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CU | 0.044 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | F- | 13. | ppm | BD | 30-NOV-99 | 28 | 340.2 |
| | | | FE | 58. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | HCO3 | 794. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 231. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | MG | 243. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | NA | 1400. | ppm | BD | 10-DEC-99 | 180 | 273.1 |
| | | | NO2/NO3 | 0.19 | ppm | JN | 03-DEC-99 | 28 | 353.2 |
| | | | PB | 0.020 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | PH | 6.7 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.060 | ppm | KB | 13-DEC-99 | 180 | 6020 |
| | | | SO4= | 4272. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 8176. | ppm | BD | 22-NOV-99 | 7 | 160.1 |
| | | | TSS | 730. | ppm | BD | 22-NOV-99 | | 160.2 |
| | | | ZN | 35. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| L992035-002 | 18-NOV-99 | EPRI-9911-180 | AS | 2.3 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CA | 406. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CD | 1.2 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CL- | 534. | ppm | JN | 24-NOV-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | | 310.1 |
| | | | COND. | 6280. | umhos/cm2 | BD | 23-NOV-99 | 28 | 120.1 |
| | | | CR | 0.032 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CU | 3.7 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | F- | 5.4 | ppm | BD | 30-NOV-99 | 28 | 340.2 |
| | | | FE | 41. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | HCO3 | 466. | ppm CaCO3 | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 65. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | MG | 92. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | NA | 800. | ppm | BD | 10-DEC-99 | 180 | 273.1 |
| | | | NO2/NO3 | 9.6 | ppm | JN | 03-DEC-99 | 28 | 353.2 |
| | | | PB | 2.0 | ppm | MK | 09-DEC-99 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992035

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | FIELD DRY METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|------------------|
| L992035-002 | 18-NOV-99 | EPRI-9911-180 | PH | 7.3 | PH | DC | 19-NOV-99 | 150.1 |
| | | | SE | 0.47 | ppm | KB | 13-DEC-99 | 180 |
| | | | SO4= | 2515. | ppm | JN | 29-NOV-99 | 28 |
| | | | TDS | 4852. | ppm | BD | 22-NOV-99 | 7 |
| | | | TSS | 1529. | ppm | BD | 22-NOV-99 | 160.1 |
| | | | ZN | 6.0 | ppm | MK | 09-DEC-99 | 160.2 |
| | | | | | | | | 6010 |
| | | | AS | 6.0 | ppm | MK | 09-DEC-99 | 180 |
| | | | CA | 165. | ppm | MK | 09-DEC-99 | 180 |
| | | | CD | 0.20 | ppm | MK | 09-DEC-99 | 180 |
| | | | CL- | 187. | ppm | JN | 24-NOV-99 | 28 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | 325.2 |
| | | | COND. | 2580. | umhos/cm2 | BD | 23-NOV-99 | 28 |
| | | | CR | <0.010 | ppm | MK | 09-DEC-99 | 180 |
| L992035-003 | 18-NOV-99 | EPRI-9911-181 | CU | 0.086 | ppm | MK | 09-DEC-99 | 6010 |
| | | | F- | 6.0 | ppm | BD | 30-NOV-99 | 28 |
| | | | FE | 5.4 | ppm | MK | 09-DEC-99 | 180 |
| | | | HCO3 | 188. | ppm | DC | 19-NOV-99 | 14 |
| | | | K | 60. | ppm | MK | 09-DEC-99 | 180 |
| | | | MG | 28. | ppm | MK | 09-DEC-99 | 180 |
| | | | NA | 400. | ppm | BD | 10-DEC-99 | 180 |
| | | | NO2/NO3 | 7.8 | ppm | JN | 03-DEC-99 | 28 |
| | | | PB | 0.28 | ppm | MK | 09-DEC-99 | 180 |
| | | | PH | 7.8 | ppm | DC | 19-NOV-99 | 150.1 |
| | | | SE | 1.1 | ppm | KB | 13-DEC-99 | 180 |
| | | | SO4= | 930. | ppm | JN | 29-NOV-99 | 28 |
| | | | TDS | 1916. | ppm | BD | 22-NOV-99 | 7 |
| | | | TSS | 236. | ppm | BD | 22-NOV-99 | 160.1 |
| L992035-004 | 18-NOV-99 | EPRI-9911-182 | ZN | 0.20 | ppm | MK | 09-DEC-99 | 180 |
| | | | | | | | | 6010 |
| | | | AS | 0.22 | ppm | MK | 09-DEC-99 | 180 |
| | | | CA | 179. | ppm | MK | 09-DEC-99 | 180 |
| | | | CD | 0.009 | ppm | MK | 09-DEC-99 | 180 |
| | | | CL- | 341. | ppm | JN | 24-NOV-99 | 28 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | 325.2 |
| | | | COND. | 3460. | umhos/cm2 | BD | 23-NOV-99 | 28 |
| | | | CR | 0.052 | ppm | MK | 09-DEC-99 | 180 |
| | | | CU | 0.14 | ppm | MK | 09-DEC-99 | 180 |
| | | | F- | 1.8 | ppm | BD | 30-NOV-99 | 28 |
| | | | | | | | | 340.2 |
| | | | | | | | | |
| | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


El Paso

Water and Solid Waste (Project 3220)

Batch No: L992035

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|-------|-------|---------|---------------|-----------|--------|
| L992035-004 | 18-NOV-99 | EPRI-9911-182 | FE | 184. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | HCO3 | 476. | ppm | DC | 19-NOV-99 | 14 | 310.1 |
| | | | K | 49. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | MG | 93. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | NA | 600. | ppm | BD | 10-DEC-99 | 180 | 273.1 |
| | | | NO2/NO3 | 13. | ppm | JN | 03-DEC-99 | 28 | 353.2 |
| | | | PB | 0.17 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | PH | 8.0 | pH | DC | 19-NOV-99 | | 150.1 |
| | | | SE | 0.29 | ppm | KB | 13-DEC-99 | 180 | 6020 |
| | | | SO4= | 1080. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 2405. | ppm | BD | 22-NOV-99 | 7 | 160.1 |
| | | | TSS | 5852. | ppm | BD | 22-NOV-99 | | 160.2 |
| | | | ZN | 0.46 | ppm | MK | 09-DEC-99 | 180 | 6010 |

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


Approved


Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992050

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L992050-001 | 22-NOV-99 | BPRI-9911-179 | AS | 0.28 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CA | 711. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CD | 1.1 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CL- | 3600. | ppm | JN | 08-DEC-99 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 01-DEC-99 | 310.1 | |
| | | | COND. | 17800. | umhos/cm2 | BD | 23-NOV-99 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | CU | 0.49 | ppm | MK | 09-DEC-99 | 6010 | |
| | | | F- | 4.6 | ppm | BD | 30-NOV-99 | 28 | 340.2 |
| | | | FE | 2.8 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | HCO3 | 493. | ppm | DC | 01-DEC-99 | 14 | 310.1 |
| | | | K | 126. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | MG | 449. | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | NA | 3200. | ppm | BD | 10-DEC-99 | 180 | 273.1 |
| | | | NO2/NO3 | 60. | ppm | JN | 03-DEC-99 | 28 | 353.2 |
| | | | PB | 0.18 | ppm | MK | 09-DEC-99 | 180 | 6010 |
| | | | PH | 7.7 | pH | DC | 01-DEC-99 | 150.1 | |
| | | | SE | 0.38 | ppm | KP | 13-DEC-99 | 180 | 6020 |
| | | | SO4= | 4440. | ppm | JN | 29-NOV-99 | 28 | 9036 |
| | | | TDS | 13965. | ppm | AH | 23-NOV-99 | 7 | 160.1 |
| | | | TSS | 8.2 | ppm | BD | 23-NOV-99 | 160.2 | |
| | | | ZN | 0.80 | ppm | MK | 09-DEC-99 | 180 | 6010 |

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

Approved

Ken Bilal
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991190

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | METHOD |
|------------|----------------|--------------------|-----------|---------|-----------|---------|---------------|-----------|--------|
| WG991190-1 | | Matrix Spike | AS | 100 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | CD | 93 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | CL- | 101 | %Recovery | JN | 24-NOV-99 | | 325.2 |
| | | | CR | 95 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | CU | 98 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | F- | 97 | %Recovery | BD | 30-NOV-99 | | 340.2 |
| | | | FE | 102 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | NO2/NO3 | 85 | %Recovery | JN | 03-DEC-99 | | 353.2 |
| | | | PB | 88 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | SE | SR>4xSA | %Recovery | KB | 13-DEC-99 | | 6020 |
| | | | SO4= | 82 | %Recovery | JN | 29-NOV-99 | | 9036 |
| | | | ZN | 99 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | AS | <0.005 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | CA | <1.0 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | CD | <0.005 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | CL- | <1.0 | ppm | JN | 24-NOV-99 | | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 19-NOV-99 | | 310.1 |
| WG991190-2 | | Prep Blank | COND. | <5.0 | umhos/cm2 | BD | 23-NOV-99 | | 120.1 |
| | | | CR | <0.010 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | CU | <0.025 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | F- | <0.050 | ppm | BD | 30-NOV-99 | | 340.2 |
| | | | FE | <0.10 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 19-NOV-99 | | 310.1 |
| | | | K | <2.0 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | MG | <1.0 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | NA | <2.0 | ppm | BD | 10-DEC-99 | | 273.1 |
| | | | NO2/NO3 | <0.050 | ppm | JN | 03-DEC-99 | | 353.2 |
| | | | PB | <0.010 | ppm | MK | 09-DEC-99 | | 6010 |
| | | | SE | <0.005 | ppm | KB | 13-DEC-99 | | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 29-NOV-99 | | 9036 |
| | | | TDS | <10. | ppm | BD | 22-NOV-99 | | 160.1 |
| | | | TSS | <1.0 | ppm | BD | 22-NOV-99 | | 160.2 |
| | | | ZN | <0.020 | ppm | MK | 09-DEC-99 | | 6010 |
| WG991190-3 | | Lab Control Sample | AS | 90 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | CA | 105 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | CD | 95 | %Recovery | MK | 09-DEC-99 | | 6010 |
| | | | CL- | 102 | %Recovery | JN | 24-NOV-99 | | 325.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991190

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|-------------|---------|---------------|-----------|--------|
| WG991190-3 | | Lab Control Sample | COND. | 100 | | | | | |
| | | | CR | 98 | \$ Recovery | BD | 23-NOV-99 | 120.1 | |
| | | | CU | 90 | \$ Recovery | MK | 09-DEC-99 | 6010 | |
| | | | F- | 100 | \$ Recovery | MK | 09-DEC-99 | 6010 | |
| | | | FE | 100 | \$ Recovery | BD | 30-NOV-99 | 340.2 | |
| | | | HCO3 | 102 | \$ Recovery | MK | 09-DEC-99 | 6010 | |
| | | | K | 96 | \$ Recovery | DC | 19-NOV-99 | 310.1 | |
| | | | MG | 98 | \$ Recovery | MK | 09-DEC-99 | 6010 | |
| | | | NA | 100 | \$ Recovery | MK | 09-DEC-99 | 6010 | |
| | | | NO2/NO3 | 98 | \$ Recovery | BD | 10-DEC-99 | 273.1 | |
| | | | PB | 90 | \$ Recovery | JN | 03-DEC-99 | 353.2 | |
| | | | SE | 105 | \$ Recovery | MK | 09-DEC-99 | 6010 | |
| | | | SO4= | 98 | \$ Recovery | KB | 13-DEC-99 | 6020 | |
| | | | TDS | 103 | \$ Recovery | JN | 29-NOV-99 | 9036 | |
| | | | TSS | 91 | \$ Recovery | BD | 22-NOV-99 | 160.1 | |
| | | | ZN | 90 | \$ Recovery | BD | 22-NOV-99 | 160.2 | |
| | | | | | \$ Recovery | MK | 09-DEC-99 | 6010 | |
| WG991190-4 | | Duplicate | AS | <1 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | CA | 1.8 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | CD | <1 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | CL- | 3.0 | \$ RPD | JN | 24-NOV-99 | 325.2 | |
| | | | CO3 | <1 | \$ RPD | DC | 19-NOV-99 | 310.1 | |
| | | | COND. | <1 | \$ RPD | BD | 23-NOV-99 | 120.1 | |
| | | | CR | <1 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | CU | <1 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | F- | 4.7 | \$ RPD | BD | 30-NOV-99 | 340.2 | |
| | | | FE | 3.6 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | HCO3 | 1.7 | \$ RPD | DC | 19-NOV-99 | 310.1 | |
| | | | K | 1.6 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | MG | 3.4 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | NA | 6.5 | \$ RPD | BD | 10-DEC-99 | 273.1 | |
| | | | NO2/NO3 | <1 | \$ RPD | JN | 03-DEC-99 | 353.2 | |
| | | | PB | <1 | \$ RPD | MK | 09-DEC-99 | 6010 | |
| | | | SE | <1 | \$ RPD | KB | 13-DEC-99 | 6020 | |
| | | | SO4= | <1 | \$ RPD | JN | 29-NOV-99 | 9036 | |
| | | | TDS | 1.6 | \$ RPD | BD | 22-NOV-99 | 160.1 | |
| | | | TSS | <1 | \$ RPD | BD | 22-NOV-99 | 160.2 | |
| | | | ZN | 1.3 | \$ RPD | MK | 09-DEC-99 | 6010 | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG991190

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG991190-5 | | Practical Quantitation Limit | AS | 0.005 | ppm | | 09-DEC-99 | | 6010 |
| | | | CA | 1.0 | ppm | | 09-DEC-99 | | 6010 |
| | | | CD | 0.005 | ppm | | 09-DEC-99 | | 6010 |
| | | | CL- | 1.0 | ppm | | | | 325.2 |
| | | | CO3 | 1.0 | ppm | | | | 310.1 |
| | | | COND. | 5.0 | umhos/cm2 | | | | 120.1 |
| | | | CR | 0.010 | ppm | | 09-DEC-99 | | 6010 |
| | | | CU | 0.025 | ppm | | 09-DEC-99 | | 6010 |
| | | | F- | 0.050 | ppm | | | | 340.2 |
| | | | FE | 0.10 | ppm | | 09-DEC-99 | | 6010 |
| | | | HCO3 | 1.0 | ppm CaCO3 | | | | 310.1 |
| | | | K | 2.0 | ppm | | 09-DEC-99 | | 6010 |
| | | | MG | 1.0 | ppm | | 09-DEC-99 | | 6010 |
| | | | NA | 2.0 | ppm | | | | 273.1 |
| | | | NO2/NO3 | 0.050 | ppm | | | | 353.2 |
| | | | PB | 0.003 | ppm | | 09-DEC-99 | | 6010 |
| | | | SE | 0.005 | ppm | | | | 5020 |
| | | | SO4= | 2.0 | ppm | | | | 9036 |
| | | | TDS | 10. | ppm | | | | 160.1 |
| | | | TSS | 1.0 | ppm | | | | 160.2 |
| | | | ZN | 0.020 | ppm | | 09-DEC-99 | | 6010 |


Approved


Reviewer

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

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

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3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
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[illegible]

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991948

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|-------|-------|---------|---------------|-----------|--------|
| L991948-001 | 02-NOV-99 | EPRI-9911-235 | AS | 1500 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | 39 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | 100 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | 15000 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | FE | 25 | % | LCS | 06-JAN-00 | | EDXRF |
| | | | PB | 6200 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | SE | 14 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | 17000 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | AS | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | <20 | ppm | LCS | 06-JAN-00 | | EDXRF |
| L991948-002 | 02-NOV-99 | EPRI-9911-306 | FE | 2.2 | % | LCS | 06-JAN-00 | | EDXRF |
| | | | PB | 57 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | SE | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | 13 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | AS | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | 96 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | 24 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | FE | 2.2 | % | LCS | 06-JAN-00 | | EDXRF |
| | | | PB | 54 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | SE | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | 43 | ppm | LCS | 06-JAN-00 | | EDXRF |
| L991948-004 | 02-NOV-99 | EPRI-9911-215 | AS | 21 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | 13 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | 61 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | FE | 2.8 | % | LCS | 06-JAN-00 | | EDXRF |
| | | | PB | 51 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | SE | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | 15 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | AS | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| L991948-005 | 02-NOV-99 | EPRI-9911-208 | AS | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | FE | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | PB | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | SE | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | AS | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | <80 | ppm | LCS | 06-JAN-00 | | EDXRF |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991948

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD |
|-------------|----------------|---------------|-----------|-------|-------|---------|---------------|-------|
| L991948-005 | 02-NOV-99 | EPRI-9911-208 | CU | 21 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | FE | 1.7 | % | LCS | 06-JAN-00 | EDXRF |
| | | | PB | 66 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | SE | <10 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | ZN | 20 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | AS | 21 | ppm | LCS | 06-JAN-00 | EDXRF |
| L991948-006 | 02-NOV-99 | EPRI-9911-212 | CD | <10 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CU | 27 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | FE | 2.9 | % | LCS | 06-JAN-00 | EDXRF |
| | | | PB | 35 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | SE | <10 | ppm | LCS | 06-JAN-00 | EDXRF |
| L991948-007 | 02-NOV-99 | EPRI-9911-213 | ZN | 41 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | AS | 11 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CD | <10 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CU | 140 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | FE | 2.3 | % | LCS | 06-JAN-00 | EDXRF |
| L991948-008 | 02-NOV-99 | EPRI-9911-216 | PB | 140 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | SE | <10 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | ZN | 110 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | AS | 1400 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CD | 36 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CR | 81 | ppm | LCS | 06-JAN-00 | EDXRF |
| L991948-009 | 02-NOV-99 | EPRI-9911-211 | CU | 14000 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | FE | 25 | % | LCS | 06-JAN-00 | EDXRF |
| | | | PB | 5900 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | SE | 15 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | ZN | 16000 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | AS | <10 | ppm | LCS | 06-JAN-00 | EDXRF |
| L991948-009 | 02-NOV-99 | EPRI-9911-211 | CD | <10 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CR | <80 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | CU | <20 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | FE | 1.6 | % | LCS | 06-JAN-00 | EDXRF |
| | | | PB | 64 | ppm | LCS | 06-JAN-00 | EDXRF |
| | | | AS | <10 | ppm | LCS | 06-JAN-00 | EDXRF |

ASARCO TECHNICAL SERVICES CENTER

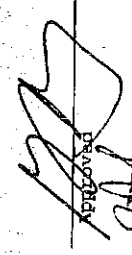

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991948

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|-------|-------|---------|---------------|-----------|--------|
| L991948-009 | 02-NOV-99 | EPRI-9911-211 | SE | <10 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | 57 | ppm | LCS | 06-JAN-00 | | EDXRF |
| L991948-010 | 02-NOV-99 | EPRI-9911-217 | AS | 2000 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | 920 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | 93 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | 8200 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | FE | 2.0 | % | LCS | 06-JAN-00 | | EDXRF |
| | | | FG | 4900 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | SE | 89 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | 6400 | ppm | LCS | 06-JAN-00 | | EDXRF |
| L991948-011 | 02-NOV-99 | EPRI-9911-209 | AS | 12000 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CD | 3400 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CR | 1300 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | CU | 65000 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | FE | 6.6 | % | LCS | 06-JAN-00 | | EDXRF |
| | | | PB | 35000 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | SE | 410 | ppm | LCS | 06-JAN-00 | | EDXRF |
| | | | ZN | 32000 | ppm | LCS | 06-JAN-00 | | EDXRF |

APPROVED

 REVIEWED


L991948

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

| As | % REC | | Pb | % REC |
|-----|-------|--|------|-------|
| 674 | 96 | | 8280 | 103 |

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

| As | % REC | | Pb | % REC |
|-----|-------|--|-----|-------|
| 952 | 104 | | 227 | 96 |

DUPLICATES EVERY 20TH SAMPLE

| LAB# | As | As | %DIFF | Pb | Pb | %DIFF |
|------------|-------|-------|-------|-------|-------|-------|
| L991948-11 | 34594 | 34883 | 1 | 12143 | 11903 | 2 |
| | Cd | Cd | | Cr | Cr | |
| | 3373 | 3457 | 2 | 1267 | 1231 | 3 |
| | Cu | Cu | | Fe | Fe | |
| | 65392 | 65550 | 0 | 6.6 | 6.6 | 0 |
| | Se | Se | | Zn | Zn | |
| | 409 | 405 | 1 | 32066 | 32317 | 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 |

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • 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 | Diss. Metal F/HNO ₃ | CN UF/NaOH | Total Metals UF/HNO ₃ | Total Recoverable Metals UF/HNO ₃ | BTX | TPH | XRF (As, Cd, Cu, Pb, Zn, Se) | REMARKS | |
|--------------------------|------|----------------------|------|-------------------|---|--------------------------------|----------------|----------------------------------|--|-----|--|------------------------------|---------|---------------|
| DATE | TIME | COMP. | GRAB | | | | | | | | | | | SAMPLE NUMBER |
| 0931 | | ASARCO - EL PASO, TX | | 1 BAG | | | | | | | | | | |
| SAMPLERS: (Signature) | | | | | | | | | | | | | | |
| Gordon Levin | | | | | | | | | | | | | | |
| 1/2/99 | 0700 | | | | EPR1-9911-235 | | | | | | | | | |
| | 0800 | | | | EPR1-9911-306 | | | | | | | | | |
| | 0810 | | | | EPR1-9911-214 | | | | | | | | | |
| | 0815 | | | | EPR1-9911-215 | | | | | | | | | |
| | 0820 | | | | EPR1-9911-208 | | | | | | | | | |
| | 0825 | | | EPR1-9911-212 | | | | | | | | | | |
| | 0830 | | | EPR1-9911-213 | | | | | | | | | | |
| | 0900 | | | EPR1-9911-216 | | | | | | | | | | |
| | 0905 | | | EPR1-9911-211 | | | | | | | | | | |
| | 0940 | | | EPR1-9911-217 | | | | | | | | | | |
| | 1150 | | | EPR1-9911-209 | | | | | | | | | | |
| Relinquished (Signature) | | | | | Received by: (Signature) | | Lab | | P.O. # | | Shipped via: Bus, Fed Ex, UPS | | | |
| Salt Chalkers | | | | | | | Salt Lake City | | | | Other | | | |
| Relinquished (Signature) | | | | | Received by: (Signature) | | Remarks | | | | Air Bill # | | | |
| 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 for Laboratory by: (Signature) | | Date/Time | | | | Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined | | | |



SECTION I-7

**LABORATORY REPORTS FOR WATER SAMPLES,
WINTER 1999**

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID | DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|------|------|--------|
| L000151-001 | 28-JAN-00 | EPRI-0002-145 | AS | 0.006 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | CA | 55. | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | CL- | 389. | ppm | JN | 22-FEB-00 | 28 | | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | | 310.1 |
| | | | COND. | 4700. | umhos/cm2 | BD | 04-FEB-00 | 28 | | 120.1 |
| | | | CR | 0.010 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | | 6020 |
| | | | F- | 4.7 | ppm | BD | 09-FEB-00 | 28 | | 340.2 |
| | | | FE | 0.80 | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | HCO3 | 333. | ppm CaCO3 | DC | 07-FEB-00 | 14 | | 310.1 |
| | | | K | 7.6 | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | MG | 60. | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | NA | 965. | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | NO2/NO3 | 11. | ppm | JN | 28-FEB-00 | 28 | | 353.2 |
| | | | PB | 0.004 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | PH | 8.0 | pH | DC | 07-FEB-00 | | | 150.1 |
| | | | SE | 0.11 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | SO4= | 1441. | ppm | JN | 08-FEB-00 | 28 | | 9036 |
| | | | TDS | 3214. | ppm | DC | 03-JAN-00 | 7 | | 160.1 |
| | | | TSS | 26. | ppm | DC | 03-JAN-00 | | | 160.2 |
| | | | ZN | 0.024 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| L000151-002 | 28-JAN-00 | EPRI-0002-227 | AS | 0.006 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | CA | 55. | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | CL- | 393. | ppm | JN | 22-FEB-00 | 28 | | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | | 310.1 |
| | | | COND. | 4710. | umhos/cm2 | BD | 04-FEB-00 | 28 | | 120.1 |
| | | | CP | 0.011 | ppm | KB | 24-FEB-00 | 180 | | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | | 6020 |
| | | | F- | 4.7 | ppm | BD | 09-FEB-00 | 28 | | 340.2 |
| | | | FE | 0.90 | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | HCO3 | 372. | ppm CaCO3 | DC | 07-FEB-00 | 14 | | 310.1 |
| | | | K | 7.6 | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | MG | 59. | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | NA | 988. | ppm | MK | 16-FEB-00 | 180 | | 6010 |
| | | | NO2/NO3 | 11. | ppm | JN | 28-FEB-00 | 28 | | 353.2 |
| | | | PB | 0.006 | ppm | KB | 24-FEB-00 | 180 | | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | WTD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|
| L000151-002 | 28-JAN-00 | EPRI-0002-227 | PH | 8.0 | PH | DC | 07-FEB-00 | 150.1 |
| | | | SE | 0.11 | ppm | KB | 24-FEB-00 | 180 |
| | | | SO4= | 1369. | ppm | JN | 08-FEB-00 | 28 |
| | | | TDS | 3188. | ppm | DC | 03-JAN-00 | 7 |
| | | | TSS | 30. | ppm | DC | 03-JAN-00 | 160.1 |
| | | | ZN | 0.025 | ppm | KB | 24-FEB-00 | 160.2 |
| | | | | | | | 24-FEB-00 | 180 |
| | | | | | | | | 6020 |
| | | | AS | 4.8 | ppm | MK | 16-FEB-00 | 180 |
| | | | CA | 73. | ppm | MK | 16-FEB-00 | 180 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 |
| | | | CL | 301. | ppm | JN | 22-FEB-00 | 28 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | 310.1 |
| L000151-003 | 28-JAN-00 | EPRI-0002-144 | COND. | 3400. | umhos/cm2 | BD | 04-FEB-00 | 28 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 3.8 | ppm | BD | 09-FEB-00 | 28 |
| | | | FE | 0.62 | ppm | MK | 16-FEB-00 | 180 |
| | | | HCO3 | 280. | ppm | CaCO3 | 07-FEB-00 | 14 |
| | | | K | 54. | ppm | MK | 16-FEB-00 | 180 |
| | | | MG | 35. | ppm | MK | 16-FEB-00 | 180 |
| | | | NA | 604. | ppm | MK | 16-FEB-00 | 180 |
| | | | NO2/NO3 | 11. | ppm | JN | 28-FEB-00 | 28 |
| | | | FB | 0.009 | ppm | KB | 24-FEB-00 | 180 |
| | | | PH | 7.6 | PH | DC | 07-FEB-00 | 150.1 |
| | | | SE | 0.24 | ppm | KB | 24-FEB-00 | 180 |
| | | | SO4= | 998. | ppm | JN | 08-FEB-00 | 28 |
| | | | TDS | 2144. | ppm | DC | 03-JAN-00 | 7 |
| | | | TSS | 20. | ppm | DC | 03-JAN-00 | 160.1 |
| | | | ZN | 0.036 | ppm | KB | 24-FEB-00 | 180 |
| | | | | | | | | 6020 |
| | | | AS | 0.014 | ppm | KB | 24-FEB-00 | 180 |
| | | | CA | 101. | ppm | MK | 16-FEB-00 | 180 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 |
| | | | CL | 432. | ppm | JN | 22-FEB-00 | 28 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | 310.1 |
| | | | COND. | 4000. | umhos/cm2 | BD | 04-FEB-00 | 28 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 2.5 | ppm | BD | 09-FEB-00 | 28 |
| | | | | | | | | 340.2 |
| L000151-004 | 28-JAN-00 | EPRI-0002-173 | AS | 0.014 | ppm | KB | 24-FEB-00 | 180 |
| | | | CA | 101. | ppm | MK | 16-FEB-00 | 180 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 |
| | | | CL | 432. | ppm | JN | 22-FEB-00 | 28 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | 310.1 |
| | | | COND. | 4000. | umhos/cm2 | BD | 04-FEB-00 | 28 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 2.5 | ppm | BD | 09-FEB-00 | 28 |
| | | | | | | | | 340.2 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L000151-004 | 28-JAN-00 | EPRI-0002-173 | FE | 1.2 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 317. | ppm | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 15. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 74. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 726. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 5.8 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.039 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.9 | PH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.064 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 1297. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 2714. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 30. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | 0.026 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 1.4 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CA | 51. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 361. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 3500. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| L000151-005 | 28-JAN-00 | EPRI-0002-172 | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 2.5 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 0.52 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 337. | ppm | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 5.5 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 50. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 739. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 6.3 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.006 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 8.2 | PH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.046 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 1022. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 2309. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 7.7 | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | 0.034 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.64 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 178. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| L000151-006 | 28-JAN-00 | EPRI-0002-147 | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | SOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L000151-006 | 28-JAN-00 | EPRI-0002-147 | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 242. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 3310. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | 0.011 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 2.7 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 2.1 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 325. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 25. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 83. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 459. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 6.7 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.006 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.7 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.26 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 1216. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 2182. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 81. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | 0.032 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| L000151-007 | 28-JAN-00 | EPRI-0002-151 | AS | 2.3 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CA | 96. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 219. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 3000. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 3.3 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 327. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 27. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 47. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 520. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 6.4 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.9 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.15 | ppm | KB | 24-FEB-00 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|
| L000151-007 | 28-JAN-00 | EPRI-0002-151 | SO4= | 948. | ppm | JN | 08-FEB-00 | 28 |
| | | | TDS | 1448. | ppm | DC | 03-JAN-00 | 7 |
| | | | TSS | 1.9 | ppm | DC | 03-JAN-00 | 160.1 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 |
| | | | AS | 0.016 | ppm | KB | 24-FEB-00 | 180 |
| | | | CA | 218. | ppm | MK | 16-FEB-00 | 180 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 |
| | | | CL- | 372. | ppm | JN | 22-FEB-00 | 28 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | 325.2 |
| | | | COND. | 5130. | umhos/cm2 | BD | 04-FEB-00 | 310.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 1.4 | ppm | BD | 09-FEB-00 | 28 |
| | | | FE | 0.38 | ppm | MK | 16-FEB-00 | 340.2 |
| L000151-008 | 28-JAN-00 | EPRI-0002-146 | HCO3 | 421. | ppm | DC | 07-FEB-00 | 14 |
| | | | K | 15. | ppm | CaCO3 | 16-FEB-00 | 310.1 |
| | | | MG | 86. | ppm | MK | 16-FEB-00 | 180 |
| | | | NA | 978. | ppm | MK | 16-FEB-00 | 6010 |
| | | | NO2/NO3 | 2.4 | ppm | JN | 28-FEB-00 | 28 |
| | | | PB | 0.004 | ppm | KB | 24-FEB-00 | 353.2 |
| | | | PH | 8.1 | ppm | KB | 24-FEB-00 | 180 |
| | | | SE | 0.024 | ppm | DC | 07-FEB-00 | 150.1 |
| | | | SO4= | 1880. | ppm | KB | 24-FEB-00 | 180 |
| | | | TDS | 3845. | ppm | JN | 08-FEB-00 | 28 |
| | | | TSS | 9.8 | ppm | DC | 03-JAN-00 | 7 |
| | | | ZN | <0.020 | ppm | DC | 03-JAN-00 | 160.1 |
| | | | | | ppm | KB | 24-FEB-00 | 180 |
| | | | | | ppm | KB | 24-FEB-00 | 6020 |
| L000151-009 | 28-JAN-00 | EPRI-0002-127 | AS | 2.9 | ppm | MK | 16-FEB-00 | 180 |
| | | | CA | 204. | ppm | MK | 16-FEB-00 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 |
| | | | CL- | 522. | ppm | JN | 22-FEB-00 | 28 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | 325.2 |
| | | | COND. | 5160. | umhos/cm2 | BD | 04-FEB-00 | 310.1 |
| | | | CR | 0.032 | ppm | KB | 24-FEB-00 | 180 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 4.8 | ppm | BD | 09-FEB-00 | 28 |
| | | | FE | 0.44 | ppm | KB | 16-FEB-00 | 340.2 |
| | | | HCO3 | 350. | ppm | MK | 16-FEB-00 | 6010 |
| | | | | | ppm | DC | 07-FEB-00 | 14 |
| | | | | | ppm | CaCO3 | 07-FEB-00 | 310.1 |
| | | | | | ppm | CaCO3 | 07-FEB-00 | 310.1 |
| | | | | | ppm | CaCO3 | 07-FEB-00 | 310.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | SOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L000151-009 | 28-JAN-00 | EPRI-0002-127 | K | 95. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 101. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 840. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 8.6 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.9 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.26 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 1874. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 3721. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 6.7 | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | 0.039 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.043 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 390. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 780. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | | 310.1 |
| | | | COND. | 9410. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 1.8 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| L000151-010 | 28-JAN-00 | EPRI-0002-132 | FE | 0.76 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 186. | ppm | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 19. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 125. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 2085. | ppm | BD | 17-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 86. | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 8.3 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.52 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 4261. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 7541. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 15. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.82 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 192. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 450. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| L000151-011 | 28-JAN-00 | EPRI-0002-130 | AS | 0.82 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 192. | ppm | MK | 16-FEB-00 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L000151-011 | 28-JAN-00 | EPRI-0002-130 | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | 310.1 | |
| | | | COND. | 4460. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 2.9 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 0.24 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 396. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 45. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 81. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 786. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 3.8 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.1 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.26 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 1510. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 3169. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 5.6 | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.022 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 215. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| L000151-012 | 28-JAN-00 | EPRI-0002-131 | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 901. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 7400. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 2.1 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 467. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 29. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 128. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 1306. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 2.5 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.8 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.12 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 2544. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 5287. | ppm | DC | 03-JAN-00 | 7 | 160.1 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID | DRYS METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|-------------|
| L000151-012 | 28-JAN-00 | EPRI-0002-131 | TSS | 3.4 | ppm | DC | 03-JAN-00 | 160.2 | |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.008 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 520. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 1047. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | 310.1 | |
| | | | COND. | 8320. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | 0.060 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 | |
| | | | F- | 1.6 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 1.1 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 261. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 12. | ppm | MK | 16-FEB-00 | 180 | 6020 |
| | | | MG | 205. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 1187. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 41. | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.9 | pH | DC | 07-FEB-00 | 150.1 | |
| | | | SE | 0.19 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| L000151-013 | 28-JAN-00 | EPRI-0002-128 | SO4= | 3101. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 6583. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 9.8 | ppm | DC | 03-JAN-00 | 160.2 | |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 10. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CA | 553. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 685. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | 310.1 | |
| | | | COND. | 7860. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 | |
| | | | F- | 3.0 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 0.80 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 425. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 42. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 129. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| L000151-014 | 28-JAN-00 | EPRI-0002-134 | AS | 10. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CA | 553. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 685. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | 310.1 | |
| | | | COND. | 7860. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 | |
| | | | F- | 3.0 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 0.80 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 425. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 42. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 129. | ppm | MK | 16-FEB-00 | 180 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | ANALYZED | DATE | FIELD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|-----------|------|-------|
| L000151-014 | 28-JAN-00 | EPRI-0002-134 | NA | 1313. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 36. | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.8 | PH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.21 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 3514. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 6449. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 26. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | <1.0 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | <1.0 | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| L000151-015 | 28-JAN-00 | EPRI-0002-228 | F- | <0.050 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | <0.10 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | 14 | 310.1 |
| | | | K | <5.0 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | <1.0 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | <5.0 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | <0.10 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 6.0 | PH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | <2.0 | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | <10. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | <1.0 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| L000151-016 | 29-JAN-00 | EPRI-0002-229 | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | <1.0 | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | CaCO3 | 07-FEB-00 | | 310.1 |
| | | | COND. | <5.0 | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD |
|---------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|
| L000151 | 016 29-JAN-00 | EPRI-0002-229 | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | <0.050 | ppm | BD | 09-FEB-00 | 28 340.2 |
| | | | FE | <0.10 | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | HCO3 | <1.0 | ppm | DC | 07-FEB-00 | 14 310.1 |
| | | | K | <5.0 | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | MG | <1.0 | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | NA | <5.0 | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | NO2/NO3 | <0.10 | ppm | JN | 28-FEB-00 | 28 353.2 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | PH | 5.9 | pH | DC | 07-FEB-00 | 180 150.1 |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | SO4= | <2.0 | ppm | JN | 08-FEB-00 | 28 9036 |
| | | | TDS | <10. | ppm | DC | 03-JAN-00 | 7 160.1 |
| | | | TSS | <1.0 | ppm | DC | 03-JAN-00 | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 6020 |
| L000151 | 017 29-JAN-00 | EPRI-0002-100 | AS | 0.13 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | CA | 127. | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | CL- | 308. | ppm | JN | 22-FEB-00 | 28 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 07-FEB-00 | 310.1 |
| | | | COND. | 2310. | umhos/cm2 | BD | 04-FEB-00 | 28 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 0.95 | ppm | BD | 09-FEB-00 | 28 340.2 |
| | | | FE | 7.5 | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | HCO3 | 277. | ppm | DC | 07-FEB-00 | 14 310.1 |
| | | | K | 15. | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | MG | 33. | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | NA | 332. | ppm | MK | 16-FEB-00 | 180 6010 |
| | | | NO2/NO3 | 0.16 | ppm | JN | 28-FEB-00 | 28 353.2 |
| | | | PB | 0.057 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | PH | 8.0 | pH | DC | 07-FEB-00 | 180 150.1 |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 180 6020 |
| | | | SO4= | 524. | ppm | JN | 08-FEB-00 | 28 9036 |
| | | | TDS | 1470. | ppm | DC | 03-JAN-00 | 7 160.1 |
| | | | TSS | 448. | ppm | DC | 03-JAN-00 | 160.2 |
| | | | ZN | 0.074 | ppm | KB | 24-FEB-00 | 180 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | MOID |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-------|
| L000151-018 | 29-JAN-00 | EPRI-0002-102 | AS | 0.020 | ppm | KB | 24-FEB-00 | 180 |
| | | | CA | 408. | ppm | MK | 16-FEB-00 | 180 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 |
| | | | CL- | 912. | ppm | JN | 22-FEB-00 | 28 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | 310.1 |
| | | | COND. | 7860. | umhos/cm2 | BD | 04-FEB-00 | 28 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 |
| | | | CU | 0.031 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 1.2 | ppm | BD | 09-FEB-00 | 28 |
| | | | FE | 0.39 | ppm | MK | 16-FEB-00 | 180 |
| | | | HCO3 | 391. | ppm CaCO3 | DC | 07-FEB-00 | 14 |
| | | | K | 22. | ppm | MK | 16-FEB-00 | 180 |
| | | | MG | 133. | ppm | MK | 16-FEB-00 | 180 |
| | | | NA | 1288. | ppm | MK | 16-FEB-00 | 180 |
| | | | NO2/NO3 | 1.2 | ppm | JN | 28-FEB-00 | 28 |
| | | | PB | 0.016 | ppm | KB | 24-FEB-00 | 180 |
| | | | PH | 7.9 | ph | DC | 07-FEB-00 | 150.1 |
| | | | SE | 0.042 | ppm | KB | 24-FEB-00 | 180 |
| | | | SO4= | 2954. | ppm | JN | 08-FEB-00 | 28 |
| | | | TDS | 6144. | ppm | DC | 03-JAN-00 | 7 |
| | | | TSS | 23. | ppm | DC | 03-JAN-00 | 160.1 |
| | | | ZN | 0.030 | ppm | KB | 24-FEB-00 | 180 |
| | | | | | | | 24-FEB-00 | 6020 |
| L000151-019 | 29-JAN-00 | EPRI-0002-103 | AS | 0.097 | ppm | KB | 24-FEB-00 | 180 |
| | | | CA | 123. | ppm | MK | 16-FEB-00 | 180 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 |
| | | | CL- | 581. | ppm | JN | 22-FEB-00 | 28 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | 310.1 |
| | | | COND. | 3840. | umhos/cm2 | BD | 04-FEB-00 | 28 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | 6020 |
| | | | F- | 1.9 | ppm | BD | 09-FEB-00 | 28 |
| | | | FE | 3.5 | ppm | MK | 16-FEB-00 | 180 |
| | | | HCO3 | 334. | ppm CaCO3 | DC | 07-FEB-00 | 14 |
| | | | K | 7.2 | ppm | MK | 16-FEB-00 | 180 |
| | | | MG | 40. | ppm | MK | 16-FEB-00 | 180 |
| | | | NA | 652. | ppm | MK | 16-FEB-00 | 180 |
| | | | NO2/NO3 | 0.17 | ppm | JN | 28-FEB-00 | 28 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 180 |
| | | | | | | | 24-FEB-00 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE | | HOLD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|-----------|-------|-------|
| | | | | | | | ANALYZED | DAYS | |
| L000151-019 | 29-JAN-00 | EPRI-0002-103 | PH | 7.5 | PH | DC | 07-FEB-00 | 150.1 | |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 924. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 2516. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 36. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.095 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 124. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 469. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 3820. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| L000151-020 | 29-JAN-00 | EPRI-0002-230 | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 1.9 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 3.0 | ppm | KB | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 310. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 7.3 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 40. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 669. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 0.20 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.8 | PH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| L000151-021 | 29-JAN-00 | EPRI-0002-175 | SO4= | 852. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 2446. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 36. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.91 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 237. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 509. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 5390. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 2.4 | ppm | BD | 09-FEB-00 | 28 | 340.2 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DMS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|----------|--------|
| L000151-021 | 29-JAN-00 | EPRI-0002-175 | FE | 2.0 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 306. | ppm | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 62. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 69. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 908. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 0.25 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.8 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 1932. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 3820. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 29. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | 0.013 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 242. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 551. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 7520. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| L000151-022 | 29-JAN-00 | EPRI-0002-176 | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 1.4 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 0.48 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 550. | ppm | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 101. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 133. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 1067. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 0.27 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 8.0 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.007 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 2846. | ppm | JN | 09-FEB-00 | 28 | 9036 |
| | | | TDS | 5026. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 1.6 | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | AS | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CA | 151. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| L000151-023 | 29-JAN-00 | EPRI-0002-177 | | | | | | | |
| | | | | | | | | | |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L000151-023 | 29-JAN-00 | EPRI-0002-177 | CD | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 364. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 4180. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | <0.010 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | <0.025 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 2.9 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 1.3 | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 307. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 42. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 65. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 701. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 0.28 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.003 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.6 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | SO4= | 1399. | ppm | JN | 08-FEB-00 | 28 | 9036 |
| | | | TDS | 2930. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 21. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | <0.020 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| L000151-024 | 29-JAN-00 | EPRI-0002-118 | AS | 40. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CA | 481. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | CD | 0.28 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CL- | 748. | ppm | JN | 22-FEB-00 | 28 | 325.2 |
| | | | CO3 | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | | 310.1 |
| | | | COND. | 9960. | umhos/cm2 | BD | 04-FEB-00 | 28 | 120.1 |
| | | | CR | 0.017 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | CU | 0.045 | ppm | KB | 24-FEB-00 | | 6020 |
| | | | F- | 6.8 | ppm | BD | 09-FEB-00 | 28 | 340.2 |
| | | | FE | 49. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | HCO3 | 760. | ppm CaCO3 | DC | 07-FEB-00 | 14 | 310.1 |
| | | | K | 267. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | MG | 138. | ppm | MK | 16-FEB-00 | 180 | 6010 |
| | | | NA | 1752. | ppm | BD | 17-FEB-00 | 180 | 6010 |
| | | | NO2/NO3 | 6.0 | ppm | JN | 28-FEB-00 | 28 | 353.2 |
| | | | PB | 0.023 | ppm | KB | 24-FEB-00 | 180 | 6020 |
| | | | PH | 7.4 | pH | DC | 07-FEB-00 | | 150.1 |
| | | | SE | 0.056 | ppm | KB | 24-FEB-00 | 180 | 6020 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000151

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-------------|----------------|---------------|-----------|-------|-------|---------|---------------|-----------|--------|
| L000151-024 | 29-JAN-00 | EPRI-0002-118 | SO4= | 4359. | ppm | JN | 09-FEB-00 | 28 | 9036 |
| | | | TDS | 7543. | ppm | DC | 03-JAN-00 | 7 | 160.1 |
| | | | TSS | 13. | ppm | DC | 03-JAN-00 | | 160.2 |
| | | | ZN | 59. | ppm | KB | 24-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 N02/N03 was exceeded by 3 days.

[Signature]
 Approved

[Signature]
 Reviewer

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 | REMARKS |
|------------|----------------|--------------------|-----------|--------|-----------|---------|---------------|---------|
| WG000124-1 | | Matrix Spike | AS | 96 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | CD | 92 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | CL- | 85 | %Recovery | JN | 22-FEB-00 | 325.2 |
| | | | CR | 96 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | CU | 100 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | F- | 95 | %Recovery | BD | 09-FEB-00 | 340.2 |
| | | | FE | 86 | %Recovery | MK | 16-FEB-00 | 6010 |
| | | | NO2/NO3 | 87 | %Recovery | JN | 28-FEB-00 | 353.2 |
| | | | PB | 98 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | SE | 98 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | SO4= | 91 | %Recovery | JN | 08-FEB-00 | 9036 |
| | | | AS | <0.005 | ppm | KB | 24-FEB-00 | 6020 |
| | | | CA | <1.0 | ppm | MK | 16-FEB-00 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 6020 |
| WG000124-2 | | Prep Blank | 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 |
| | | | 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 |
| | | | HCO3 | <1.0 | ppm CaCO3 | DC | 07-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 | MK | 16-FEB-00 | 6010 |
| | | | NO2/NO3 | <0.10 | ppm | JN | 28-FEB-00 | 353.2 |
| | | | PB | <0.003 | ppm | KB | 24-FEB-00 | 6020 |
| | | | SE | <0.005 | ppm | KB | 24-FEB-00 | 6020 |
| WG000124-3 | | Lab Control Sample | SO4= | <2.0 | ppm | JN | 08-FEB-00 | 9036 |
| | | | TDS | <10. | ppm | DC | 03-JAN-00 | 160.1 |
| | | | TSS | <1.0 | ppm | DC | 03-JAN-00 | 160.2 |
| | | | AS | 105 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | CA | 106 | %Recovery | MK | 16-FEB-00 | 6010 |
| | | | CD | 102 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | CL- | 106 | %Recovery | JN | 22-FEB-00 | 325.2 |
| | | | COND. | 100 | %Recovery | BD | 04-FEB-00 | 120.1 |
| | | | CR | 104 | %Recovery | KB | 24-FEB-00 | 6020 |
| | | | AS | <0.005 | ppm | KB | 24-FEB-00 | 6020 |
| | | | CA | <1.0 | ppm | MK | 16-FEB-00 | 6010 |
| | | | CD | <0.005 | ppm | KB | 24-FEB-00 | 6020 |
| | | | CL- | <1.0 | ppm CaCO3 | DC | 07-FEB-00 | 310.1 |
| | | | CO3 | <1.0 | ppm | MK | 16-FEB-00 | 6010 |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000124

| LAB NO | DATE
COMPLETED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE
ANALYZED | HOLD
DAYS | METHOD |
|------------|-------------------|------------------------------|-----------|---------|------------|---------|------------------|--------------|--------|
| WG000124-3 | | Lab Control Sample | CU | 102 | % Recovery | KB | 24-FEB-00 | | 6020 |
| | | | F- | 94 | % Recovery | BD | 09-FEB-00 | | 340.2 |
| | | | FE | 108 | % Recovery | MK | 16-FEB-00 | | 6010 |
| | | | HCO3 | 94 | % Recovery | DC | 07-FEB-00 | | 310.1 |
| | | | K | 96 | % Recovery | MK | 16-FEB-00 | | 6010 |
| | | | MG | 107 | % Recovery | MK | 16-FEB-00 | | 6010 |
| | | | NA | 95 | % Recovery | MK | 16-FEB-00 | | 6010 |
| | | | NO2/NO3 | 88 | % Recovery | JN | 28-FEB-00 | | 353.2 |
| | | | PB | 103 | % Recovery | KB | 24-FEB-00 | | 6020 |
| | | | SE | 109 | % Recovery | KB | 24-FEB-00 | | 6020 |
| | | | SO4= | 99 | % Recovery | JN | 08-FEB-00 | | 9036 |
| | | | TDS | 98 | % Recovery | DC | 03-JAN-00 | | 160.1 |
| | | | TSS | 99 | % Recovery | DC | 03-JAN-00 | | 160.2 |
| | | | AS | +/-prdl | % RPD | KB | 24-FEB-00 | | 6020 |
| | | | CA | 1.8 | % RPD | MK | 16-FEB-00 | | 6010 |
| | | | CD | <1 | % RPD | KB | 24-FEB-00 | | 6020 |
| | | | CL- | <1 | % 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 | <1 | % RPD | KB | 24-FEB-00 | | 6020 |
| | | | CU | <1 | % RPD | KB | 24-FEB-00 | | 6020 |
| WG000124-4 | | Duplicate | F- | 2.2 | % RPD | BD | 09-FEB-00 | | 340.2 |
| | | | FE | 1.2 | % RPD | MK | 16-FEB-00 | | 6010 |
| | | | HCO3 | 1.2 | % RPD | DC | 07-FEB-00 | | 310.1 |
| | | | K | 1.3 | % RPD | MK | 16-FEB-00 | | 6010 |
| | | | MG | 1.7 | % RPD | MK | 16-FEB-00 | | 6010 |
| | | | NA | 1.5 | % RPD | MK | 16-FEB-00 | | 6010 |
| | | | NO2/NO3 | 4.8 | % RPD | JN | 28-FEB-00 | | 353.2 |
| | | | PB | +/-prdl | % RPD | KB | 24-FEB-00 | | 6020 |
| | | | SE | <1 | % RPD | KB | 24-FEB-00 | | 6020 |
| | | | SO4= | 5.9 | % RPD | JN | 08-FEB-00 | | 9036 |
| | | | TDS | <1 | % RPD | DC | 03-JAN-00 | | 160.1 |
| | | | TSS | 2.6 | % RPD | DC | 03-JAN-00 | | 160.2 |
| | | | AS | 0.005 | ppm | | | | 6020 |
| | | | CA | 1.0 | ppm | | | | 6010 |
| | | | CD | 0.005 | ppm | | | | 6020 |
| | | | CL- | 1.0 | ppm | | | | 325.2 |
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| WG000124-5 | | Practical Quantitation Limit | | | | | | | |
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