ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-018	27-JUL-00	BL2A	CU	2960.	ppm	MDK	31-AUG-00		6010
			FE	7.5	%	MDK	31-AUG-00		6010
			PB	629.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	5040.	ppm	MDK	31-AUG-00		6010
L001210-019	27-JUL-00	BL2A2	AS	214.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	226.	ppm	MDK	31-AUG-00		6010
			CU	2880.	ppm	MDK	31-AUG-00		6010
			FE	7.3	%	MDK	31-AUG-00		6010
			PB	630.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	5000.	ppm	MDK	31-AUG-00		6010
L001210-020	27-JUL-00	BL2B	AS	36.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	114.	ppm	MDK	31-AUG-00		6010
			CU	522.	ppm	MDK	31-AUG-00		6010
			FE	2.7	%	MDK	31-AUG-00		6010
			PB	181.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	1010.	ppm	MDK	31-AUG-00		6010
L001210-021	27-JUL-00	BL2C	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	89.	ppm	MDK	31-AUG-00		6010
			CU	135.	ppm	MDK	31-AUG-00		6010
			FE	2.2	%	MDK	31-AUG-00		6010
			PB	46.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	234.	ppm	MDK	31-AUG-00		6010
L001210-022	27-JUL-00	BL2D	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	118.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	1.8	%	MDK	31-AUG-00		6010
			PB	26.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-022	27-JUL-00	BL2D	SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	45.	ppm	MDK	31-AUG-00		6010
L001210-023	27-JUL-00	BL2E	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	89.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	0.85	%	MDK	31-AUG-00		6010
			PB	44.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	22.	ppm	MDK	31-AUG-00		6010
L001210-024	27-JUL-00	BL2F	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	129.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	0.28	%	MDK	31-AUG-00		6010
			PB	26.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	<10.	ppm	MDK	31-AUG-00		6010
L001210-025	26-JUL-00	BL1A	AS	826.	ppm	MDK	31-AUG-00		6010
			CD	30.	ppm	MDK	31-AUG-00		6010
			CR	327.	ppm	MDK	31-AUG-00		6010
			CU	4520.	ppm	MDK	31-AUG-00		6010
			FE	24.7	%	MDK	31-AUG-00		6010
			PB	4930.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	21000.	ppm	MDK	31-AUG-00		6010
L001210-026	26-JUL-00	BL1A2	AS	760.	ppm	MDK	31-AUG-00		6010
			CD	41.	ppm	MDK	31-AUG-00		6010
			CR	374.	ppm	MDK	31-AUG-00		6010
			CU	4490.	ppm	MDK	31-AUG-00		6010
			FE	23.3	%	MDK	31-AUG-00		6010
			PB	5570.	ppm	MDK	31-AUG-00		6010
			SE	22.	ppm	MDK	31-AUG-00		6010
			ZN	22000.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-027	26-JUL-00	BL1B	AS	181.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	159.	ppm	MDK	31-AUG-00		6010
			CU	948.	ppm	MDK	31-AUG-00		6010
			FE	7.2	%	MDK	31-AUG-00		6010
			PB	1200.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	4290.	ppm	MDK	31-AUG-00		6010
L001210-028	28-JUL-00	BL4A	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	105.	ppm	MDK	31-AUG-00		6010
			CU	50.	ppm	MDK	31-AUG-00		6010
			FE	1.2	%	MDK	31-AUG-00		6010
			PB	77.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	85.	ppm	MDK	31-AUG-00		6010
L001210-029	28-JUL-00	BL4A2	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	112.	ppm	MDK	31-AUG-00		6010
			CU	30.	ppm	MDK	31-AUG-00		6010
			FE	0.71	%	MDK	31-AUG-00		6010
			PB	50.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	94.	ppm	MDK	31-AUG-00		6010
L001210-030	28-JUL-00	BL4B	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	53.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	0.93	%	MDK	31-AUG-00		6010
			PB	<20.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	28.	ppm	MDK	31-AUG-00		6010
L001210-031	28-JUL-00	BL4C	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	58.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-031	28-JUL-00	BL4C	CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	1.1	%	MDK	31-AUG-00		6010
			PB	22.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	36.	ppm	MDK	31-AUG-00		6010
L001210-032	28-JUL-00	BL4D	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	76.	ppm	MDK	31-AUG-00		6010
			CU	149.	ppm	MDK	31-AUG-00		6010
			FE	0.57	%	MDK	31-AUG-00		6010
			PB	52.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	48.	ppm	MDK	31-AUG-00		6010
L001210-033	29-JUL-00	BL5A	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	50.	ppm	MDK	31-AUG-00		6010
			CU	137.	ppm	MDK	31-AUG-00		6010
			FE	0.72	%	MDK	31-AUG-00		6010
			PB	107.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	123.	ppm	MDK	31-AUG-00		6010
L001210-034	29-JUL-00	BL5A2	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	70.	ppm	MDK	31-AUG-00		6010
			CU	153.	ppm	MDK	31-AUG-00		6010
			FE	0.75	%	MDK	31-AUG-00		6010
			PB	105.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	123.	ppm	MDK	31-AUG-00		6010
L001210-035	29-JUL-00	BL5B	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	69.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	1.7	%	MDK	31-AUG-00		6010
			PB	31.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-035	29-JUL-00	BL5B	SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	59.	ppm	MDK	31-AUG-00		6010
L001210-036	29-JUL-00	BL5C	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	119.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	1.3	%	MDK	31-AUG-00		6010
			PB	24.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	38.	ppm	MDK	31-AUG-00		6010
L001210-037	29-JUL-00	BL5D	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	68.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	1.3	%	MDK	31-AUG-00		6010
			PB	24.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	40.	ppm	MDK	31-AUG-00		6010
L001210-038	29-JUL-00	BL5E	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	57.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	1.5	%	MDK	31-AUG-00		6010
			PB	<20.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	44.	ppm	MDK	31-AUG-00		6010
L001210-039	29-JUL-00	BL5F	AS	<20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	52.	ppm	MDK	31-AUG-00		6010
			CU	<20.	ppm	MDK	31-AUG-00		6010
			FE	1.5	%	MDK	31-AUG-00		6010
			PB	24.	ppm	MDK	31-AUG-00		6010
			SE	<20.	ppm	MDK	31-AUG-00		6010
			ZN	44.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

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

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001231

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001231-001	31-JUL-00	BL1C	AS	12.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	52.	ppm	MDK	31-AUG-00		6010
			CU	19.	ppm	MDK	31-AUG-00		6010
			FE	1.9	%	MDK	31-AUG-00		6010
			PB	50.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	52.	ppm	MDK	31-AUG-00		6010
L001231-002	31-JUL-00	BL1D	AS	26.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	58.	ppm	MDK	31-AUG-00		6010
			CU	141.	ppm	MDK	31-AUG-00		6010
			FE	2.2	%	MDK	31-AUG-00		6010
			PB	235.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	596.	ppm	MDK	31-AUG-00		6010
L001231-003	31-JUL-00	BL2G	AS	13.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	66.	ppm	MDK	31-AUG-00		6010
			CU	15.	ppm	MDK	31-AUG-00		6010
			FE	1.0	%	MDK	31-AUG-00		6010
			PB	28.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	28.	ppm	MDK	31-AUG-00		6010
L001231-004	31-JUL-00	BL2H	AS	20.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	62.	ppm	MDK	31-AUG-00		6010
			CU	16.	ppm	MDK	31-AUG-00		6010
			FE	4.4	%	MDK	31-AUG-00		6010
			PB	40.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	40.	ppm	MDK	31-AUG-00		6010
L001231-005	31-JUL-00	BL2I	AS	18.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	78.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001231

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001231-005	31-JUL-00	BL2I	CU	22.	ppm	MDK	31-AUG-00		6010
			FE	1.4	%	MDK	31-AUG-00		6010
			PB	36.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	90.	ppm	MDK	31-AUG-00		6010
L001231-006	31-JUL-00	BL3E	AS	12.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	69.	ppm	MDK	31-AUG-00		6010
			CU	26.	ppm	MDK	31-AUG-00		6010
			FE	2.1	%	MDK	31-AUG-00		6010
			PB	19.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	99.	ppm	MDK	31-AUG-00		6010
L001231-007	31-JUL-00	BL3F	AS	13.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	69.	ppm	MDK	31-AUG-00		6010
			CU	24.	ppm	MDK	31-AUG-00		6010
			FE	1.6	%	MDK	31-AUG-00		6010
			PB	15.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	107.	ppm	MDK	31-AUG-00		6010
L001231-008	31-JUL-00	BL4E	AS	<10.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	61.	ppm	MDK	31-AUG-00		6010
			CU	71.	ppm	MDK	31-AUG-00		6010
			FE	0.24	%	MDK	31-AUG-00		6010
			PB	73.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	45.	ppm	MDK	31-AUG-00		6010
L001231-009	01-AUG-00	SS3	AS	<10.	ppm	MDK	31-AUG-00		6010
			CD	<10.	ppm	MDK	31-AUG-00		6010
			CR	44.	ppm	MDK	31-AUG-00		6010
			CU	15.	ppm	MDK	31-AUG-00		6010
			FE	1.7	%	MDK	31-AUG-00		6010
			PB	22.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001231

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

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001231

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

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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000848

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000848-1		Matrix Spike	AS	101.	%Recovery	MDK	31-AUG-00		6010
			CD	98.	%Recovery	MDK	31-AUG-00		6010
			CR	98.	%Recovery	MDK	31-AUG-00		6010
			CU	112.	%Recovery	MDK	31-AUG-00		6010
			FE	SR>4XSA	%Recovery	MDK	31-AUG-00		6010
			PB	98.	%Recovery	MDK	31-AUG-00		6010
			SE	99.	%Recovery	MDK	31-AUG-00		6010
			ZN	98.	%Recovery	MDK	31-AUG-00		6010
WG000848-2		Prep Blank	AS	<0.05	ug/ml	MDK	31-AUG-00		6010
			CD	<0.05	ug/ml	MDK	31-AUG-00		6010
			CR	<0.05	ug/ml	MDK	31-AUG-00		6010
			CU	<0.05	ug/ml	MDK	31-AUG-00		6010
			FE	<0.05	ug/ml	MDK	31-AUG-00		6010
			PB	<0.05	ug/ml	MDK	31-AUG-00		6010
			SE	<0.05	ug/ml	MDK	31-AUG-00		6010
			ZN	<0.05	ug/ml	MDK	31-AUG-00		6010
WG000848-3		Lab Control Sample	AS	97.	%Recovery	MDK	31-AUG-00		6010
			CD	83.	%Recovery	MDK	31-AUG-00		6010
			CR	92.	%Recovery	MDK	31-AUG-00		6010
			CU	102.	%Recovery	MDK	31-AUG-00		6010
			FE	97.	%Recovery	MDK	31-AUG-00		6010
			PB	94.	%Recovery	MDK	31-AUG-00		6010
			SE	101.	%Recovery	MDK	31-AUG-00		6010
			ZN	105.	%Recovery	MDK	31-AUG-00		6010
WG000848-5		Matrix Spike Duplicate	AS	7.2	% RPD	MDK	31-AUG-00		6010
			CD	16.6	% RPD	MDK	31-AUG-00		6010
			CR	9.5	% RPD	MDK	31-AUG-00		6010
			CU	2.7	% RPD	MDK	31-AUG-00		6010
			FE	8.2	% RPD	MDK	31-AUG-00		6010
			PB	9.5	% RPD	MDK	31-AUG-00		6010
			SE	1.0	% RPD	MDK	31-AUG-00		6010
			ZN	9.5	% RPD	MDK	31-AUG-00		6010
WG000848-6		Reporting Limit	AS	0.05	ug/ml	MDK	31-AUG-00		6010
			CD	0.05	ug/ml	MDK	31-AUG-00		6010
			CR	0.05	ug/ml	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000848

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

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000848

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

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

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

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000848

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000848-17		Matrix Spike Duplicate	AS	3.9	% RPD	MDK	31-AUG-00		6010
			CD	4.2	% RPD	MDK	31-AUG-00		6010
			CR	3.9	% RPD	MDK	31-AUG-00		6010
			CU	2.0	% RPD	MDK	31-AUG-00		6010
			FE	1.3	% RPD	MDK	31-AUG-00		6010
			PB	2.2	% RPD	MDK	31-AUG-00		6010
			SE	3.1	% RPD	MDK	31-AUG-00		6010
			ZN	1.0	% RPD	MDK	31-AUG-00		6010
WG000848-18		Reporting Limit	AS	0.05	ug/ml	MDK	31-AUG-00		6010
			CD	0.05	ug/ml	MDK	31-AUG-00		6010
			CR	0.05	ug/ml	MDK	31-AUG-00		6010
			CU	0.05	ug/ml	MDK	31-AUG-00		6010
			FE	0.05	ug/ml	MDK	31-AUG-00		6010
			PB	0.05	ug/ml	MDK	31-AUG-00		6010
			SE	0.05	ug/ml	MDK	31-AUG-00		6010
			ZN	0.05	ug/ml	MDK	31-AUG-00		6010

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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-001	28-JUL-00	KMV-1	AS	24.	ppm	MDK	31-AUG-00		6010
			CD	1.3	ppm	MDK	31-AUG-00		6010
			CR	103.	ppm	MDK	31-AUG-00		6010
			CU	734.	ppm	MDK	31-AUG-00		6010
			FE	3.5	%	MDK	31-AUG-00		6010
			PB	73.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	101.	ppm	MDK	31-AUG-00		6010
L001210-002	28-JUL-00	KMV-2	AS	16.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	85.	ppm	MDK	31-AUG-00		6010
			CU	32.	ppm	MDK	31-AUG-00		6010
			FE	1.5	%	MDK	31-AUG-00		6010
			PB	26.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	93.	ppm	MDK	31-AUG-00		6010
L001210-003	28-JUL-00	KMU-1	AS	13.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	83.	ppm	MDK	31-AUG-00		6010
			CU	20.	ppm	MDK	31-AUG-00		6010
			FE	2.5	%	MDK	31-AUG-00		6010
			PB	48.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	60.	ppm	MDK	31-AUG-00		6010
L001210-004	28-JUL-00	KDR-1	AS	11.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	38.	ppm	MDK	31-AUG-00		6010
			CU	<10.	ppm	MDK	31-AUG-00		6010
			FE	0.32	%	MDK	31-AUG-00		6010
			PB	8.5	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	30.	ppm	MDK	31-AUG-00		6010
L001210-005	28-JUL-00	UD-1	AS	131.	ppm	MDK	31-AUG-00		6010
			CD	32.	ppm	MDK	31-AUG-00		6010
			CR	123.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001210-005	28-JUL-00	UD-1	CU	1310.	ppm	MDK	31-AUG-00		6010
			FE	2.7	%	MDK	31-AUG-00		6010
			PB	629.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	619.	ppm	MDK	31-AUG-00		6010
L001210-006	28-JUL-00	KAN-1	AS	<10.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	242.	ppm	MDK	31-AUG-00		6010
			CU	20.	ppm	MDK	31-AUG-00		6010
			FE	0.82	%	MDK	31-AUG-00		6010
			PB	34.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	20.	ppm	MDK	31-AUG-00		6010
L001210-007	28-JUL-00	KAN-2	AS	11.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	143.	ppm	MDK	31-AUG-00		6010
			CU	24.	ppm	MDK	31-AUG-00		6010
			FE	0.60	%	MDK	31-AUG-00		6010
			PB	34.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	34.	ppm	MDK	31-AUG-00		6010
L001210-008	06-JUN-00	VINTONSHALE 1	AS	15.	ppm	MDK	31-AUG-00		6010
			CD	<1.0	ppm	MDK	31-AUG-00		6010
			CR	110.	ppm	MDK	31-AUG-00		6010
			CU	33.	ppm	MDK	31-AUG-00		6010
			FE	2.8	%	MDK	31-AUG-00		6010
			PB	24.	ppm	MDK	31-AUG-00		6010
			SE	<10.	ppm	MDK	31-AUG-00		6010
			ZN	157.	ppm	MDK	31-AUG-00		6010
L001210-009	05-JUN-00	SS2	AS	46.	ppm	MDK	31-AUG-00		6010
			CD	4.6	ppm	MDK	31-AUG-00		6010
			CR	107.	ppm	MDK	31-AUG-00		6010
			CU	344.	ppm	MDK	31-AUG-00		6010
			FE	1.6	%	MDK	31-AUG-00		6010
			PB	197.	ppm	MDK	31-AUG-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001232

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001232-005	31-JUL-00	BL2I	CU	55	ppm	LCS	24-AUG-00		EDXRF
			FE	1.4	%	LCS	24-AUG-00		EDXRF
			PB	70	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	57	ppm	LCS	24-AUG-00		EDXRF
L001232-006	31-JUL-00	BL3E	AS	13	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	<80	ppm	LCS	24-AUG-00		EDXRF
			CU	<20	ppm	LCS	24-AUG-00		EDXRF
			FE	2.0	%	LCS	24-AUG-00		EDXRF
			PB	25	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	50	ppm	LCS	24-AUG-00		EDXRF
L001232-007	31-JUL-00	BL3F	AS	<10	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	180	ppm	LCS	24-AUG-00		EDXRF
			CU	39	ppm	LCS	24-AUG-00		EDXRF
			FE	1.6	%	LCS	24-AUG-00		EDXRF
			PB	25	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	71	ppm	LCS	24-AUG-00		EDXRF
L001232-008	31-JUL-00	BL4E	AS	<10	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	140	ppm	LCS	24-AUG-00		EDXRF
			CU	120	ppm	LCS	24-AUG-00		EDXRF
			FE	0.30	%	LCS	24-AUG-00		EDXRF
			PB	110	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	14	ppm	LCS	24-AUG-00		EDXRF
L001232-009	01-AUG-00	SS3	AS	14	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	97	ppm	LCS	24-AUG-00		EDXRF
			CU	<20	ppm	LCS	24-AUG-00		EDXRF
			FE	2.1	%	LCS	24-AUG-00		EDXRF
			PB	34	ppm	LCS	24-AUG-00		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001232

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001232-009	01-AUG-00	SS3	SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	43	ppm	LCS	24-AUG-00		EDXRF
L001232-010	01-AUG-00	SS4	AS	<10	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	99	ppm	LCS	24-AUG-00		EDXRF
			CU	<20	ppm	LCS	24-AUG-00		EDXRF
			FE	1.9	%	LCS	24-AUG-00		EDXRF
			PB	46	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	14	ppm	LCS	24-AUG-00		EDXRF
L001232-011	02-AUG-00	BLSS-1	AS	<10	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	<80	ppm	LCS	24-AUG-00		EDXRF
			CU	<20	ppm	LCS	24-AUG-00		EDXRF
			FE	3.8	%	LCS	24-AUG-00		EDXRF
			PB	<10	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	73	ppm	LCS	24-AUG-00		EDXRF
L001232-012	02-AUG-00	BLSS-2	AS	20	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	130	ppm	LCS	24-AUG-00		EDXRF
			CU	<20	ppm	LCS	24-AUG-00		EDXRF
			FE	3.5	%	LCS	24-AUG-00		EDXRF
			PB	15	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	54	ppm	LCS	24-AUG-00		EDXRF
L001232-013	02-AUG-00	BLSS-3	AS	<10	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	<80	ppm	LCS	24-AUG-00		EDXRF
			CU	30	ppm	LCS	24-AUG-00		EDXRF
			FE	2.3	%	LCS	24-AUG-00		EDXRF
			PB	40	ppm	LCS	24-AUG-00		EDXRF
			SE	13	ppm	LCS	24-AUG-00		EDXRF
			ZN	65	ppm	LCS	24-AUG-00		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001232

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001232-014	02-AUG-00	BLSS-4	AS	<10	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	<80	ppm	LCS	24-AUG-00		EDXRF
			CU	<20	ppm	LCS	24-AUG-00		EDXRF
			FE	3.5	%	LCS	24-AUG-00		EDXRF
			PB	11	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	62	ppm	LCS	24-AUG-00		EDXRF
L001232-015	02-AUG-00	BLSS-5	AS	35	ppm	LCS	24-AUG-00		EDXRF
			CD	<10	ppm	LCS	24-AUG-00		EDXRF
			CR	97	ppm	LCS	24-AUG-00		EDXRF
			CU	28	ppm	LCS	24-AUG-00		EDXRF
			FE	3.2	%	LCS	24-AUG-00		EDXRF
			PB	14	ppm	LCS	24-AUG-00		EDXRF
			SE	<10	ppm	LCS	24-AUG-00		EDXRF
			ZN	50	ppm	LCS	24-AUG-00		EDXRF

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010423

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010423-001	28-MAR-01	BH2-8A	AS	190	ppm	MEC	04-APR-01		EDXRF
			CD	<10	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	64	ppm	MEC	04-APR-01		EDXRF
			FE	1.7	%	MEC	04-APR-01		EDXRF
			PB	100	ppm	MEC	04-APR-01		EDXRF
			SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	160	ppm	MEC	04-APR-01		EDXRF
L010423-002	28-MAR-01	BH2-8B	AS	180	ppm	MEC	04-APR-01		EDXRF
			CD	12	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	39	ppm	MEC	04-APR-01		EDXRF
			FE	1.6	%	MEC	04-APR-01		EDXRF
			PB	120	ppm	MEC	04-APR-01		EDXRF
			SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	230	ppm	MEC	04-APR-01		EDXRF
L010423-003	28-MAR-01	BH2-9A	AS	930	ppm	MEC	04-APR-01		EDXRF
			CD	<10	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	38	ppm	MEC	04-APR-01		EDXRF
			FE	2.4	%	MEC	04-APR-01		EDXRF
			PB	150	ppm	MEC	04-APR-01		EDXRF
			SE	50	ppm	MEC	04-APR-01		EDXRF
			ZN	200	ppm	MEC	04-APR-01		EDXRF
L010423-004	28-MAR-01	BH2-9B1	AS	74	ppm	MEC	04-APR-01		EDXRF
			CD	14	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	15	ppm	MEC	04-APR-01		EDXRF
			FE	1.7	%	MEC	04-APR-01		EDXRF
			PB	58	ppm	MEC	04-APR-01		EDXRF
			SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	150	ppm	MEC	04-APR-01		EDXRF
L010423-005	28-MAR-01	BH2-9B2	AS	64	ppm	MEC	04-APR-01		EDXRF
			CD	15	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010423

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010423-005	28-MAR-01	BH2-9B2	CU	67	ppm	MEC	04-APR-01		EDXRF
			FE	1.7	%	MEC	04-APR-01		EDXRF
			PB	48	ppm	MEC	04-APR-01		EDXRF
			SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	110	ppm	MEC	04-APR-01		EDXRF
L010423-006	29-MAR-01	BH2-10A	AS	66	ppm	MEC	04-APR-01		EDXRF
			CD	<10	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	28	ppm	MEC	04-APR-01		EDXRF
			FE	1.2	%	MEC	04-APR-01		EDXRF
			PB	48	ppm	MEC	04-APR-01		EDXRF
			SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	44	ppm	MEC	04-APR-01		EDXRF
L010423-007	29-MAR-01	BH2-10B	AS	55	ppm	MEC	04-APR-01		EDXRF
			CD	<10	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	62	ppm	MEC	04-APR-01		EDXRF
			FE	1.6	%	MEC	04-APR-01		EDXRF
			PB	51	ppm	MEC	04-APR-01		EDXRF
			SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	35	ppm	MEC	04-APR-01		EDXRF
L010423-008	29-MAR-01	BH2-11A	AS	120	ppm	MEC	04-APR-01		EDXRF
			CD	45	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	41	ppm	MEC	04-APR-01		EDXRF
			FE	1.3	%	MEC	04-APR-01		EDXRF
			PB	63	ppm	MEC	04-APR-01		EDXRF
			SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	150	ppm	MEC	04-APR-01		EDXRF
L010423-009	29-MAR-01	BH2-11B	AS	87	ppm	MEC	04-APR-01		EDXRF
			CD	<10	ppm	MEC	04-APR-01		EDXRF
			CR	<200	ppm	MEC	04-APR-01		EDXRF
			CU	34	ppm	MEC	04-APR-01		EDXRF
			FE	1.3	%	MEC	04-APR-01		EDXRF
			PB	43	ppm	MEC	04-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010423

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010423-009	29-MAR-01	BH2-11B	SE	<40	ppm	MEC	04-APR-01		EDXRF
			ZN	53	ppm	MEC	04-APR-01		EDXRF

Approved

Reviewer

CHAIN OF CUSTODY RECORD

Hydrotechnic 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

PROJ. NO.	PROJECT NAME
1247v2	RI Phase III

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CON-TAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							REMARKS
3/28/01	1140			BH2-8A	1 BAG									X							65-66 ft
↓	1200			BH2-8B	↓									↓							70-71 ft
↓	1540			BH2-9A	↓									↓							62-63 ft
↓	1600			BH2-9B1	↓									↓							66-67 ft
3/28/01	1600			BH2-9B2	↓									↓							66-67 ft
3/29/01	1045			BH2-10A	↓									↓							47-48 ft
↓	1055			BH2-10B	↓									↓							51-52 ft
↓	1350			BH2-11A	↓									↓							21-22 ft
3/29/01	1400			BH2-11B	1 BAG									X							26-27 ft
				BH2-12A? hold till week of 4-9																	
				~~BH2-12B~~ Per E. Chambers																	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	4/2/01 1200		TSC, Salt Lake City, Utah		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/ detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other	
			4-3-01 1100		

UFORM 1 4/95

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: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-001	30-MAR-01	BH2-12A	AS	65	ppm	MEC	19-APR-01		EDXRF
			CD	82	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	95	ppm	MEC	19-APR-01		EDXRF
			FE	1.2	%	MEC	19-APR-01		EDXRF
			PB	45	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	340	ppm	MEC	19-APR-01		EDXRF
L010467-002	30-MAR-01	BH2-12B	AS	62	ppm	MEC	19-APR-01		EDXRF
			CD	55	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	100	ppm	MEC	19-APR-01		EDXRF
			FE	2.0	%	MEC	19-APR-01		EDXRF
			PB	78	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	580	ppm	MEC	19-APR-01		EDXRF
L010467-003	30-MAR-01	BH2-13A	AS	46	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	180	ppm	MEC	19-APR-01		EDXRF
			FE	2.0	%	MEC	19-APR-01		EDXRF
			PB	120	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	150	ppm	MEC	19-APR-01		EDXRF
L010467-004	30-MAR-01	BH2-13B	AS	42	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	130	ppm	MEC	19-APR-01		EDXRF
			FE	1.7	%	MEC	19-APR-01		EDXRF
			PB	65	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	11	ppm	MEC	19-APR-01		EDXRF
L010467-005	30-MAR-01	BH2-13C	AS	86	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-005	30-MAR-01	BH2-13C	CU	30	ppm	MEC	19-APR-01		EDXRF
			FE	2.0	%	MEC	19-APR-01		EDXRF
			PB	77	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	26	ppm	MEC	19-APR-01		EDXRF
L010467-006	02-APR-01	EP-119A	AS	160	ppm	MEC	19-APR-01		EDXRF
			CD	35	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	2000	ppm	MEC	19-APR-01		EDXRF
			FE	1.4	%	MEC	19-APR-01		EDXRF
			PB	800	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	870	ppm	MEC	19-APR-01		EDXRF
L010467-007	02-APR-01	EP-119B	AS	64	ppm	MEC	19-APR-01		EDXRF
			CD	20	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	640	ppm	MEC	19-APR-01		EDXRF
			FE	1.4	%	MEC	19-APR-01		EDXRF
			PB	550	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	450	ppm	MEC	19-APR-01		EDXRF
L010467-008	02-APR-01	EP-119C	AS	91	ppm	MEC	19-APR-01		EDXRF
			CD	21	ppm	MEC	19-APR-01		EDXRF
			CR	93	ppm	MEC	19-APR-01		EDXRF
			CU	860	ppm	MEC	19-APR-01		EDXRF
			FE	2.4	%	MEC	19-APR-01		EDXRF
			PB	660	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	410	ppm	MEC	19-APR-01		EDXRF
L010467-009	02-APR-01	EP-119D	AS	18	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	47	ppm	MEC	19-APR-01		EDXRF
			FE	1.1	%	MEC	19-APR-01		EDXRF
			PB	36	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-009	02-APR-01	EP-119D	SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-010	02-APR-01	EP-119E	AS	31	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	130	ppm	MEC	19-APR-01		EDXRF
			FE	1.5	%	MEC	19-APR-01		EDXRF
			PB	97	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	55	ppm	MEC	19-APR-01		EDXRF
L010467-011	02-APR-01	EP-119F	AS	27	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	38	ppm	MEC	19-APR-01		EDXRF
			FE	1.5	%	MEC	19-APR-01		EDXRF
			PB	41	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-012	03-APR-01	BH12-10A	AS	12	ppm	MEC	19-APR-01		EDXRF
			CD	13	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	48	ppm	MEC	19-APR-01		EDXRF
			FE	0.30	%	MEC	19-APR-01		EDXRF
			PB	78	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-013	03-APR-01	BH12-11A	AS	57	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	53	ppm	MEC	19-APR-01		EDXRF
			FE	1.4	%	MEC	19-APR-01		EDXRF
			PB	41	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-014	03-APR-01	BH12-11B1	AS	43	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	53	ppm	MEC	19-APR-01		EDXRF
			FE	0.96	%	MEC	19-APR-01		EDXRF
			PB	44	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-015	03-APR-01	BH12-12A	AS	50	ppm	MEC	19-APR-01		EDXRF
			CD	13	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	140	ppm	MEC	19-APR-01		EDXRF
			FE	0.81	%	MEC	19-APR-01		EDXRF
			PB	200	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	91	ppm	MEC	19-APR-01		EDXRF
L010467-016	03-APR-01	BH12-12B	AS	19	ppm	MEC	19-APR-01		EDXRF
			CD	11	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	100	ppm	MEC	19-APR-01		EDXRF
			FE	0.50	%	MEC	19-APR-01		EDXRF
			PB	55	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-017	04-APR-01	BH12-13A1	AS	18	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	52	ppm	MEC	19-APR-01		EDXRF
			FE	1.1	%	MEC	19-APR-01		EDXRF
			PB	60	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	75	ppm	MEC	19-APR-01		EDXRF
L010467-018	04-APR-01	BH12-13A2	AS	20	ppm	MEC	19-APR-01		EDXRF
			CD	12	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-018	04-APR-01	BH12-13A2	CU	33	ppm	MEC	19-APR-01		EDXRF
			FE	1.0	%	MEC	19-APR-01		EDXRF
			PB	43	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	43	ppm	MEC	19-APR-01		EDXRF
L010467-019	04-APR-01	BH12-13B	AS	41	ppm	MEC	19-APR-01		EDXRF
			CD	13	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	93	ppm	MEC	19-APR-01		EDXRF
			FE	0.60	%	MEC	19-APR-01		EDXRF
			PB	140	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	12	ppm	MEC	19-APR-01		EDXRF
L010467-020	04-APR-01	BH12-14A	AS	27	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	45	ppm	MEC	19-APR-01		EDXRF
			FE	1.3	%	MEC	19-APR-01		EDXRF
			PB	70	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	100	ppm	MEC	19-APR-01		EDXRF
L010467-021	04-APR-01	BH12-14B	AS	37	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	110	ppm	MEC	19-APR-01		EDXRF
			FE	1.2	%	MEC	19-APR-01		EDXRF
			PB	77	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	29	ppm	MEC	19-APR-01		EDXRF
L010467-022	04-APR-01	BH12-15A	AS	520	ppm	MEC	19-APR-01		EDXRF
			CD	2800	ppm	MEC	19-APR-01		EDXRF
			CR	97	ppm	MEC	19-APR-01		EDXRF
			CU	1500	ppm	MEC	19-APR-01		EDXRF
			FE	1.3	%	MEC	19-APR-01		EDXRF
			PB	1500	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-022	04-APR-01	BH12-15A	SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	7700	ppm	MEC	19-APR-01		EDXRF
L010467-023	04-APR-01	BH12-15B	AS	73	ppm	MEC	19-APR-01		EDXRF
			CD	11	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	250	ppm	MEC	19-APR-01		EDXRF
			FE	1.2	%	MEC	19-APR-01		EDXRF
			PB	230	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	75	ppm	MEC	19-APR-01		EDXRF
L010467-024	04-APR-01	BH12-16A	AS	49	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	160	ppm	MEC	19-APR-01		EDXRF
			FE	1.5	%	MEC	19-APR-01		EDXRF
			PB	100	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	410	ppm	MEC	19-APR-01		EDXRF
L010467-025	04-APR-01	BH12-16B	AS	30	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	77	ppm	MEC	19-APR-01		EDXRF
			FE	0.74	%	MEC	19-APR-01		EDXRF
			PB	65	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-026	05-APR-01	BH12-17A	AS	260	ppm	MEC	19-APR-01		EDXRF
			CD	72	ppm	MEC	19-APR-01		EDXRF
			CR	190	ppm	MEC	19-APR-01		EDXRF
			CU	900	ppm	MEC	19-APR-01		EDXRF
			FE	5.7	%	MEC	19-APR-01		EDXRF
			PB	1100	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	1500	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-027	05-APR-01	BH12-17B	AS	87	ppm	MEC	19-APR-01		EDXRF
			CD	17	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	510	ppm	MEC	19-APR-01		EDXRF
			FE	1.6	%	MEC	19-APR-01		EDXRF
			PB	510	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	720	ppm	MEC	19-APR-01		EDXRF
L010467-028	05-APR-01	BH12-17C	AS	39	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	200	ppm	MEC	19-APR-01		EDXRF
			FE	0.75	%	MEC	19-APR-01		EDXRF
			PB	230	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	220	ppm	MEC	19-APR-01		EDXRF
L010467-029	05-APR-01	BH12-18A	AS	47	ppm	MEC	19-APR-01		EDXRF
			CD	11	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	160	ppm	MEC	19-APR-01		EDXRF
			FE	1.1	%	MEC	19-APR-01		EDXRF
			PB	51	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-030	05-APR-01	BH12-18B	AS	47	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	83	ppm	MEC	19-APR-01		EDXRF
			FE	1.7	%	MEC	19-APR-01		EDXRF
			PB	60	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	11	ppm	MEC	19-APR-01		EDXRF
L010467-031	05-APR-01	BH12-19A1	AS	59	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-031	05-APR-01	BH12-19A1	CU	78	ppm	MEC	19-APR-01		EDXRF
			FE	2.0	%	MEC	19-APR-01		EDXRF
			PB	54	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	49	ppm	MEC	19-APR-01		EDXRF
L010467-032	05-APR-01	BH12-19A2	AS	46	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	51	ppm	MEC	19-APR-01		EDXRF
			FE	2.0	%	MEC	19-APR-01		EDXRF
			PB	64	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	22	ppm	MEC	19-APR-01		EDXRF
L010467-033	05-APR-01	BH12-19B	AS	34	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	93	ppm	MEC	19-APR-01		EDXRF
			FE	1.6	%	MEC	19-APR-01		EDXRF
			PB	64	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-034	05-APR-01	BH12-20A1	AS	21	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	<20	ppm	MEC	19-APR-01		EDXRF
			FE	1.7	%	MEC	19-APR-01		EDXRF
			PB	46	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-035	05-APR-01	BH12-20B	AS	29	ppm	MEC	19-APR-01		EDXRF
			CD	10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	45	ppm	MEC	19-APR-01		EDXRF
			FE	1.7	%	MEC	19-APR-01		EDXRF
			PB	45	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010467-035	05-APR-01	BH12-20B	SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-036	05-APR-01	BH12-21A	AS	85	ppm	MEC	19-APR-01		EDXRF
			CD	14	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	67	ppm	MEC	19-APR-01		EDXRF
			FE	2.0	%	MEC	19-APR-01		EDXRF
			PB	51	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-037	05-APR-01	BH12-21B	AS	39	ppm	MEC	19-APR-01		EDXRF
			CD	12	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	38	ppm	MEC	19-APR-01		EDXRF
			FE	2.4	%	MEC	19-APR-01		EDXRF
			PB	59	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-038	03-APR-01	BH12-11B2	AS	43	ppm	MEC	19-APR-01		EDXRF
			CD	<10	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	47	ppm	MEC	19-APR-01		EDXRF
			FE	1.1	%	MEC	19-APR-01		EDXRF
			PB	48	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF
L010467-039	05-APR-01	BH12-20A2	AS	24	ppm	MEC	19-APR-01		EDXRF
			CD	11	ppm	MEC	19-APR-01		EDXRF
			CR	<80	ppm	MEC	19-APR-01		EDXRF
			CU	36	ppm	MEC	19-APR-01		EDXRF
			FE	1.7	%	MEC	19-APR-01		EDXRF
			PB	37	ppm	MEC	19-APR-01		EDXRF
			SE	<20	ppm	MEC	19-APR-01		EDXRF
			ZN	<10	ppm	MEC	19-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010467

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

Approved

Reviewer

CHAIN OF CUSTODY RECORD

Hydrocontinental, 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

PROJ. NO.	PROJECT NAME
1247v2	RI Phase III

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							REMARKS
3/30/01	0840			BH2-12A	1 BAG									X							18-19 ft
3/30/01	0850			BH2-12B																	23-24 ft
↓	1150			BH2-13A																	15-16 ft
↓	1200			BH2-13B																	18-19 ft
3/30/01	1545			BH2-13C																	26-27 ft
4/2/01	1600			EP-119A																	0-1 ft
↓	1605			EP-119B																	1-2 ft
	1610			EP-119C																	2-3 ft
↓	1615			EP-119D																	3-4 ft
4/2/01	1620			EP-119E																	4-5 ft
4/2/01	1625			EP-119F																	10-11 ft
4/3/01	1040			BH12-10A																	52-53 ft
↓	1410			BH12-11A																	37-38 ft
↓	1420			BH12-11B1	↓									↓							42-43 ft
4/3/01	1600			BH12-12A	1 BAG									X							47-48 ft

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, (Fed Ex) UPS
	4/9/01 1600		TSC Salt Lake City, Utah		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☑ Cover letter ☐ Other	
			4-10-01 0900	Split Samples: [] Accepted [] Declined	Signature

HEORM-1-4/95

Return results & electronic copy to:

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
1247v2	RI Phase III

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF						REMARKS
4/3/01	1610			BH12-12B	1 BAG									X						52-53 ft
4/4/01	0940			BH12-13A1																46-47 ft
	0940			BH12-13A2																46-47 ft
	0955			BH12-13B																51-52 ft
	1115			BH12-14A																43-44 ft
	1130			BH12-14B																50-51 ft
	1440			BH12-15A																49-50 ft
	1450			BH12-15B																51-52 ft
	1605			BH12-16A																48-49 ft
4/4/01	1615			BH12-16B																53-54 ft
4/5/01	0830			BH12-17A																48-49 ft
	0900			BH12-17B																51-52 ft
	0915			BH12-17C																55-56 ft
	1020			BH12-18A																43-44 ft
4/5/01	1050			BH12-18B	1 BAG									X						48-49 ft

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, ~~Fed Ex~~, UPS
	4/9/01 1600		TSC, Salt Lake City Utah		Other
					Air Bill #

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

Relinquished *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed:
			4-10-01 0902	☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☑ Cover letter ☐ Other

Split Samples:

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME
1247v2	RI Phase III

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							(Feet) REMARKS
4/5/01	1340			BH12-19A1	1 BAG									X							40-41
	1340			BH12-19A2																	40-41
	1350			BH12-19B																	45-46
	1445			BH12-20A1																	31-32
	1455			BH12-20B																	36-37
	1535			BH12-21A																	20-21
4/5/01	1545			BH12-21B	1 BAG									X							25-26
4/3/01	1420	MS/MSD		BH12-11B2	1 BAG									X							42-43
4/5/01	1445			BH12-20A2	1 BAG									X							31-32

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, (Fed Ex), UPS
[signature]	4/9/01 1600		TSC, Salt Lake City Utah		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) [signature]	Date/Time 4-10-01 0900		

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

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-3-4/95

Return results & electronic copy to:

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010453

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010453-001	01-APR-01	I10 CAMPUS ANDESITE #1	AS	68	ppm	EH	09-APR-01		6010
			CD	13	ppm	EH	09-APR-01		6010
			CR	37	ppm	EH	09-APR-01		6010
			CU	133	ppm	EH	09-APR-01		6010
			FE	24530	ppm	EH	09-APR-01		6010
			PB	236	ppm	EH	09-APR-01		6010
			SE	<10	ppm	MK	18-APR-01		6010
			ZN	205	ppm	EH	09-APR-01		6010
L010453-002	01-APR-01	I10 CAMPUS ANDESITE #2	AS	101	ppm	EH	09-APR-01		6010
			CD	<10	ppm	EH	09-APR-01		6010
			CR	37	ppm	EH	09-APR-01		6010
			CU	142	ppm	EH	09-APR-01		6010
			FE	22480	ppm	EH	09-APR-01		6010
			PB	285	ppm	EH	09-APR-01		6010
			SE	<10	ppm	MK	18-APR-01		6010
			ZN	205	ppm	EH	09-APR-01		6010
L010453-003	01-APR-01	I10 CAMPUS ANDESITE #3	AS	121	ppm	EH	09-APR-01		6010
			CD	16	ppm	EH	09-APR-01		6010
			CR	32	ppm	EH	09-APR-01		6010
			CU	128	ppm	EH	09-APR-01		6010
			FE	23720	ppm	EH	09-APR-01		6010
			PB	389	ppm	EH	09-APR-01		6010
			SE	<10	ppm	MK	18-APR-01		6010
			ZN	165	ppm	EH	09-APR-01		6010

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Batch No: WG010287

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010287-1		Matrix Spike	AS	96	%Recovery	EH	09-APR-01		6010
			CD	90	%Recovery	EH	09-APR-01		6010
			CR	95	%Recovery	EH	09-APR-01		6010
			CU	100	%Recovery	EH	09-APR-01		6010
			FE	SR>4XSA	%Recovery	EH	09-APR-01		6010
			PB	100	%Recovery	EH	09-APR-01		6010
			SE	88	%Recovery	EH	18-APR-01		6010
			ZN	94	%Recovery	EH	09-APR-01		6010
WG010287-2		Prep Blank	AS	<10	ppm	EH	09-APR-01		6010
			CD	<10	ppm	EH	09-APR-01		6010
			CR	<30	ppm	EH	09-APR-01		6010
			CU	<10	ppm	EH	09-APR-01		6010
			FE	<50	ppm	EH	09-APR-01		6010
			PB	<10	ppm	EH	09-APR-01		6010
			SE	<10		EH	18-APR-01		6010
			ZN	<10	ppm	EH	09-APR-01		6010
WG010287-3		Lab Control Sample	AS	94	%Recovery	EH	09-APR-01		6010
			CD	84	%Recovery	EH	09-APR-01		6010
			CR	122*	%Recovery	EH	09-APR-01		6010
			CU	100	%Recovery	EH	09-APR-01		6010
			FE	96	%Recovery	EH	09-APR-01		6010
			PB	91	%Recovery	EH	09-APR-01		6010
			SE	*	%Recovery	EH	18-APR-01		6010
			ZN	83	%Recovery	EH	09-APR-01		6010
WG010287-5		Matrix Spike Duplicate	AS	2.2	% RPD	EH	09-APR-01		6010
			CD	1.4	% RPD	EH	09-APR-01		6010
			CR	2.1	% RPD	EH	09-APR-01		6010
			CU	1.7	% RPD	EH	09-APR-01		6010
			FE	4.2	% RPD	EH	09-APR-01		6010
			PB	2.2	% RPD	EH	09-APR-01		6010
			SE	1.5	% RPD	EH	18-APR-01		6010
			ZN	0.91	% RPD	EH	09-APR-01		6010
WG010287-6		Reporting Limit	AS	10	ppm	EH	09-APR-01		6010
			CD	10	ppm	EH	09-APR-01		6010
			CR	30	ppm	EH	09-APR-01		6010

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WG010287-6		Reporting Limit	CU	10	ppm	EH	09-APR-01		6010
			FE	50	ppm	EH	09-APR-01		6010
			PB	10	ppm	EH	09-APR-01		6010
			SE	10	ppm	EH	18-APR-01		6010
			ZN	10	ppm	EH	09-APR-01		6010

* Soil refernece material (NBS 2710) does not have reference value for selenium. Calibration verification for selenium had 92% recovery.
** Cr value for NBS 2710 is non certified.

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-001	10-APR-01	BH14-4A	AS	670	ppm	LCS	11-MAY-01		EDXRF
			CD	140	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	24000	ppm	LCS	11-MAY-01		EDXRF
			FE	3.1	%	LCS	11-MAY-01		EDXRF
			PB	3800	ppm	LCS	11-MAY-01		EDXRF
			SE	46	ppm	LCS	11-MAY-01		EDXRF
			ZN	2200	ppm	LCS	11-MAY-01		EDXRF
L010605-002	10-APR-01	BH14-4B	AS	27	ppm	LCS	11-MAY-01		EDXRF
			CD	15	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	270	ppm	LCS	11-MAY-01		EDXRF
			FE	0.80	%	LCS	11-MAY-01		EDXRF
			PB	440	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	190	ppm	LCS	11-MAY-01		EDXRF
L010605-003	10-APR-01	BH14-4C	AS	28	ppm	LCS	11-MAY-01		EDXRF
			CD	11	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	870	ppm	LCS	11-MAY-01		EDXRF
			FE	0.85	%	LCS	11-MAY-01		EDXRF
			PB	180	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	59	ppm	LCS	11-MAY-01		EDXRF
L010605-004	10-APR-01	BH14-4D	AS	19	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	160	ppm	LCS	11-MAY-01		EDXRF
			FE	0.73	%	LCS	11-MAY-01		EDXRF
			PB	70	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	12	ppm	LCS	11-MAY-01		EDXRF
L010605-005	10-APR-01	BH14-4E	AS	<10	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF

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L010605-005	10-APR-01	BH14-4E	CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	0.62	%	LCS	11-MAY-01		EDXRF
			PB	14	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-006	10-APR-01	BH14-4F	AS	11	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	0.80	%	LCS	11-MAY-01		EDXRF
			PB	36	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-007	10-APR-01	BH14-5A	AS	170	ppm	LCS	11-MAY-01		EDXRF
			CD	110	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	3400	ppm	LCS	11-MAY-01		EDXRF
			FE	1.9	%	LCS	11-MAY-01		EDXRF
			PB	3200	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	2100	ppm	LCS	11-MAY-01		EDXRF
L010605-008	10-APR-01	BH14-5B	AS	100	ppm	LCS	11-MAY-01		EDXRF
			CD	35	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	2000	ppm	LCS	11-MAY-01		EDXRF
			FE	1.5	%	LCS	11-MAY-01		EDXRF
			PB	1300	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	550	ppm	LCS	11-MAY-01		EDXRF
L010605-009	10-APR-01	BH14-5D	AS	310	ppm	LCS	11-MAY-01		EDXRF
			CD	88	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	3000	ppm	LCS	11-MAY-01		EDXRF
			FE	1.8	%	LCS	11-MAY-01		EDXRF
			PB	3000	ppm	LCS	11-MAY-01		EDXRF

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L010605-009	10-APR-01	BH14-5D	SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	1300	ppm	LCS	11-MAY-01		EDXRF
L010605-010	10-APR-01	BH14-5E	AS	280	ppm	LCS	11-MAY-01		EDXRF
			CD	66	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	2400	ppm	LCS	11-MAY-01		EDXRF
			FE	2.3	%	LCS	11-MAY-01		EDXRF
			PB	2800	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	1300	ppm	LCS	11-MAY-01		EDXRF
L010605-011	10-APR-01	BH14-5F1	AS	<10	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	0.34	%	LCS	11-MAY-01		EDXRF
			PB	21	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-012	10-APR-01	BH14-5F2	AS	<10	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	0.33	%	LCS	11-MAY-01		EDXRF
			PB	23	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-013	16-APR-01	BH14-6A	AS	130	ppm	LCS	11-MAY-01		EDXRF
			CD	28	ppm	LCS	11-MAY-01		EDXRF
			CR	85	ppm	LCS	11-MAY-01		EDXRF
			CU	5600	ppm	LCS	11-MAY-01		EDXRF
			FE	1.5	%	LCS	11-MAY-01		EDXRF
			PB	950	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	460	ppm	LCS	11-MAY-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-014	16-APR-01	BH14-6B	AS	68	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	560	ppm	LCS	11-MAY-01		EDXRF
			FE	1.3	%	LCS	11-MAY-01		EDXRF
			PB	330	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	66	ppm	LCS	11-MAY-01		EDXRF
L010605-015	16-APR-01	BH14-6C	AS	76	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	2500	ppm	LCS	11-MAY-01		EDXRF
			FE	1.3	%	LCS	11-MAY-01		EDXRF
			PB	350	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	150	ppm	LCS	11-MAY-01		EDXRF
L010605-016	16-APR-01	BH14-6D	AS	21	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	120	ppm	LCS	11-MAY-01		EDXRF
			FE	1.3	%	LCS	11-MAY-01		EDXRF
			PB	46	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	15	ppm	LCS	11-MAY-01		EDXRF
L010605-017	16-APR-01	BH14-6E	AS	33	ppm	LCS	11-MAY-01		EDXRF
			CD	11	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	680	ppm	LCS	11-MAY-01		EDXRF
			FE	1.2	%	LCS	11-MAY-01		EDXRF
			PB	140	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	48	ppm	LCS	11-MAY-01		EDXRF
L010605-018	16-APR-01	BH14-6F1	AS	<10	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF

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L010605-018	16-APR-01	BH14-6F1	CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	0.64	%	LCS	11-MAY-01		EDXRF
			PB	15	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-019	16-APR-01	BH14-6F2	AS	<10	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	28	ppm	LCS	11-MAY-01		EDXRF
			FE	0.62	%	LCS	11-MAY-01		EDXRF
			PB	31	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-020	24-APR-01	EP-125A	AS	180	ppm	LCS	11-MAY-01		EDXRF
			CD	23	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	2800	ppm	LCS	11-MAY-01		EDXRF
			FE	1.1	%	LCS	11-MAY-01		EDXRF
			PB	840	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	410	ppm	LCS	11-MAY-01		EDXRF
L010605-021	24-APR-01	EP-125B	AS	78	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	1100	ppm	LCS	11-MAY-01		EDXRF
			FE	0.93	%	LCS	11-MAY-01		EDXRF
			PB	520	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	1300	ppm	LCS	11-MAY-01		EDXRF
L010605-022	24-APR-01	EP-125C	AS	36	ppm	LCS	11-MAY-01		EDXRF
			CD	13	ppm	LCS	11-MAY-01		EDXRF
			CR	82	ppm	LCS	11-MAY-01		EDXRF
			CU	71	ppm	LCS	11-MAY-01		EDXRF
			FE	2.0	%	LCS	11-MAY-01		EDXRF
			PB	200	ppm	LCS	11-MAY-01		EDXRF

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L010605-022	24-APR-01	EP-125C	SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	1100	ppm	LCS	11-MAY-01		EDXRF
L010605-023	24-APR-01	EP-125D	AS	16	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	0.86	%	LCS	11-MAY-01		EDXRF
			PB	28	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-024	24-APR-01	EP-125E1	AS	33	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	64	ppm	LCS	11-MAY-01		EDXRF
			FE	1.9	%	LCS	11-MAY-01		EDXRF
			PB	47	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-025	24-APR-01	EP-125E2	AS	33	ppm	LCS	11-MAY-01		EDXRF
			CD	13	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	26	ppm	LCS	11-MAY-01		EDXRF
			FE	2.0	%	LCS	11-MAY-01		EDXRF
			PB	32	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-026	24-APR-01	EP-125F	AS	38	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	100	ppm	LCS	11-MAY-01		EDXRF
			CU	33	ppm	LCS	11-MAY-01		EDXRF
			FE	2.7	%	LCS	11-MAY-01		EDXRF
			PB	43	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF

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Batch No: L010605

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-027	24-APR-01	EP-125G	AS	33	ppm	LCS	11-MAY-01		EDXRF
			CD	11	ppm	LCS	11-MAY-01		EDXRF
			CR	89	ppm	LCS	11-MAY-01		EDXRF
			CU	33	ppm	LCS	11-MAY-01		EDXRF
			FE	2.4	%	LCS	11-MAY-01		EDXRF
			PB	46	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-028	24-APR-01	EP-125H	AS	34	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	38	ppm	LCS	11-MAY-01		EDXRF
			FE	1.8	%	LCS	11-MAY-01		EDXRF
			PB	50	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-029	24-APR-01	EP-125I	AS	26	ppm	LCS	11-MAY-01		EDXRF
			CD	12	ppm	LCS	11-MAY-01		EDXRF
			CR	89	ppm	LCS	11-MAY-01		EDXRF
			CU	29	ppm	LCS	11-MAY-01		EDXRF
			FE	2.1	%	LCS	11-MAY-01		EDXRF
			PB	59	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-030	24-APR-01	EP-125J	AS	21	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	30	ppm	LCS	11-MAY-01		EDXRF
			FE	1.8	%	LCS	11-MAY-01		EDXRF
			PB	60	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-031	24-APR-01	EP-125K	AS	31	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-031	24-APR-01	EP-125K	CU	77	ppm	LCS	11-MAY-01		EDXRF
			FE	1.5	%	LCS	11-MAY-01		EDXRF
			PB	65	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-032	26-APR-01	EP-126A	AS	190	ppm	LCS	11-MAY-01		EDXRF
			CD	74	ppm	LCS	11-MAY-01		EDXRF
			CR	110	ppm	LCS	11-MAY-01		EDXRF
			CU	1700	ppm	LCS	11-MAY-01		EDXRF
			FE	4.3	%	LCS	11-MAY-01		EDXRF
			PB	2900	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	8700	ppm	LCS	11-MAY-01		EDXRF
L010605-033	26-APR-01	EP-126B	AS	55	ppm	LCS	11-MAY-01		EDXRF
			CD	64	ppm	LCS	11-MAY-01		EDXRF
			CR	120	ppm	LCS	11-MAY-01		EDXRF
			CU	1100	ppm	LCS	11-MAY-01		EDXRF
			FE	4.8	%	LCS	11-MAY-01		EDXRF
			PB	1400	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	6000	ppm	LCS	11-MAY-01		EDXRF
L010605-034	26-APR-01	EP-126C	AS	120	ppm	LCS	11-MAY-01		EDXRF
			CD	54	ppm	LCS	11-MAY-01		EDXRF
			CR	100	ppm	LCS	11-MAY-01		EDXRF
			CU	1500	ppm	LCS	11-MAY-01		EDXRF
			FE	5.5	%	LCS	11-MAY-01		EDXRF
			PB	1900	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	9100	ppm	LCS	11-MAY-01		EDXRF
L010605-035	26-APR-01	EP-126D	AS	48	ppm	LCS	11-MAY-01		EDXRF
			CD	23	ppm	LCS	11-MAY-01		EDXRF
			CR	88	ppm	LCS	11-MAY-01		EDXRF
			CU	970	ppm	LCS	11-MAY-01		EDXRF
			FE	3.7	%	LCS	11-MAY-01		EDXRF
			PB	1100	ppm	LCS	11-MAY-01		EDXRF

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El Paso

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Batch No: L010605

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L010605-035	26-APR-01	EP-126D	SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	3700	ppm	LCS	11-MAY-01		EDXRF
L010605-036	26-APR-01	EP-126E1	AS	29	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	52	ppm	LCS	11-MAY-01		EDXRF
			FE	2.0	%	LCS	11-MAY-01		EDXRF
			PB	48	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-037	26-APR-01	EP-126E2	AS	24	ppm	LCS	11-MAY-01		EDXRF
			CD	14	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	47	ppm	LCS	11-MAY-01		EDXRF
			FE	1.9	%	LCS	11-MAY-01		EDXRF
			PB	46	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-038	26-APR-01	EP-126F	AS	13	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	58	ppm	LCS	11-MAY-01		EDXRF
			FE	1.9	%	LCS	11-MAY-01		EDXRF
			PB	50	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-039	26-APR-01	EP-126G	AS	34	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	86	ppm	LCS	11-MAY-01		EDXRF
			CU	26	ppm	LCS	11-MAY-01		EDXRF
			FE	2.4	%	LCS	11-MAY-01		EDXRF
			PB	42	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-040	26-APR-01	EP-126H	AS	30	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	86	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	2.2	%	LCS	11-MAY-01		EDXRF
			PB	38	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-041	26-APR-01	EP-126I	AS	26	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	94	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	2.5	%	LCS	11-MAY-01		EDXRF
			PB	51	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-042	26-APR-01	EP-126J	AS	32	ppm	LCS	11-MAY-01		EDXRF
			CD	13	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	1.9	%	LCS	11-MAY-01		EDXRF
			PB	49	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF
L010605-043	27-APR-01	EP-127A	AS	46	ppm	LCS	11-MAY-01		EDXRF
			CD	16	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	360	ppm	LCS	11-MAY-01		EDXRF
			FE	1.5	%	LCS	11-MAY-01		EDXRF
			PB	420	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	190	ppm	LCS	11-MAY-01		EDXRF
L010605-044	27-APR-01	EP-127B	AS	83	ppm	LCS	11-MAY-01		EDXRF
			CD	20	ppm	LCS	11-MAY-01		EDXRF
			CR	88	ppm	LCS	11-MAY-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-044	27-APR-01	EP-127B	CU	420	ppm	LCS	11-MAY-01		EDXRF
			FE	2.2	%	LCS	11-MAY-01		EDXRF
			PB	590	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	340	ppm	LCS	11-MAY-01		EDXRF
L010605-045	27-APR-01	EP-127C	AS	38	ppm	LCS	11-MAY-01		EDXRF
			CD	12	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	80	ppm	LCS	11-MAY-01		EDXRF
			FE	0.75	%	LCS	11-MAY-01		EDXRF
			PB	110	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	72	ppm	LCS	11-MAY-01		EDXRF
L010605-046	27-APR-01	EP-127D	AS	46	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	22	ppm	LCS	11-MAY-01		EDXRF
			FE	0.79	%	LCS	11-MAY-01		EDXRF
			PB	45	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	10	ppm	LCS	11-MAY-01		EDXRF
L010605-047	27-APR-01	EP-127E1	AS	29	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	51	ppm	LCS	11-MAY-01		EDXRF
			FE	0.97	%	LCS	11-MAY-01		EDXRF
			PB	79	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	60	ppm	LCS	11-MAY-01		EDXRF
L010605-048	27-APR-01	EP-127E2	AS	60	ppm	LCS	11-MAY-01		EDXRF
			CD	19	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	180	ppm	LCS	11-MAY-01		EDXRF
			FE	1.3	%	LCS	11-MAY-01		EDXRF
			PB	290	ppm	LCS	11-MAY-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-048	27-APR-01	EP-127E2	SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	190	ppm	LCS	11-MAY-01		EDXRF
L010605-049	27-APR-01	EP-128A	AS	120	ppm	LCS	11-MAY-01		EDXRF
			CD	23	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	1900	ppm	LCS	11-MAY-01		EDXRF
			FE	2.4	%	LCS	11-MAY-01		EDXRF
			PB	2000	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	820	ppm	LCS	11-MAY-01		EDXRF
L010605-050	27-APR-01	EP-128B	AS	28	ppm	LCS	11-MAY-01		EDXRF
			CD	10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	240	ppm	LCS	11-MAY-01		EDXRF
			FE	0.88	%	LCS	11-MAY-01		EDXRF
			PB	330	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	160	ppm	LCS	11-MAY-01		EDXRF
L010605-051	27-APR-01	EP-128C	AS	68	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	140	ppm	LCS	11-MAY-01		EDXRF
			FE	1.7	%	LCS	11-MAY-01		EDXRF
			PB	210	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	69	ppm	LCS	11-MAY-01		EDXRF
L010605-052	27-APR-01	EP-128D	AS	13	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	<20	ppm	LCS	11-MAY-01		EDXRF
			FE	0.59	%	LCS	11-MAY-01		EDXRF
			PB	20	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	<10	ppm	LCS	11-MAY-01		EDXRF

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L010605-053	12-APR-01	BH8-12A	AS	1600	ppm	LCS	11-MAY-01		EDXRF
			CD	1500	ppm	LCS	11-MAY-01		EDXRF
			CR	130	ppm	LCS	11-MAY-01		EDXRF
			CU	38000	ppm	LCS	11-MAY-01		EDXRF
			FE	5.2	%	LCS	11-MAY-01		EDXRF
			PB	6300	ppm	LCS	11-MAY-01		EDXRF
			SE	25	ppm	LCS	11-MAY-01		EDXRF
			ZN	18000	ppm	LCS	11-MAY-01		EDXRF
L010605-054	12-APR-01	BH8-12B	AS	70	ppm	LCS	11-MAY-01		EDXRF
			CD	1900	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	1900	ppm	LCS	11-MAY-01		EDXRF
			FE	0.92	%	LCS	11-MAY-01		EDXRF
			PB	300	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	22000	ppm	LCS	11-MAY-01		EDXRF
L010605-055	12-APR-01	BH8-12C	AS	110	ppm	LCS	11-MAY-01		EDXRF
			CD	580	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	6500	ppm	LCS	11-MAY-01		EDXRF
			FE	1.2	%	LCS	11-MAY-01		EDXRF
			PB	760	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	9300	ppm	LCS	11-MAY-01		EDXRF
L010605-056	12-APR-01	BH8-12D	AS	<10	ppm	LCS	11-MAY-01		EDXRF
			CD	<10	ppm	LCS	11-MAY-01		EDXRF
			CR	<80	ppm	LCS	11-MAY-01		EDXRF
			CU	1300	ppm	LCS	11-MAY-01		EDXRF
			FE	0.58	%	LCS	11-MAY-01		EDXRF
			PB	130	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	420	ppm	LCS	11-MAY-01		EDXRF
L010605-057	12-APR-01	BH8-12E	AS	25	ppm	LCS	11-MAY-01		EDXRF
			CD	13	ppm	LCS	11-MAY-01		EDXRF
			CR	80	ppm	LCS	11-MAY-01		EDXRF

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Batch No: L010605

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010605-057	12-APR-01	BH8-12E	CU	36	ppm	LCS	11-MAY-01		EDXRF
			FE	1.6	%	LCS	11-MAY-01		EDXRF
			PB	48	ppm	LCS	11-MAY-01		EDXRF
			SE	<20	ppm	LCS	11-MAY-01		EDXRF
			ZN	150	ppm	LCS	11-MAY-01		EDXRF

Approved

Reviewer

Hydrometric Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1947v2 | PROJECT NAME: RI Phase III

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							REMARKS (Ft.)
4/10/01	1455			BH14-4A	1 BAG									X							0-1
4/10/01	1500			BH14-4B																	1-2
4/10/01	1505			BH14-4C																	2-3
4/10/01	1510			BH14-4D																	3-4
4/10/01	1515			BH14-4E																	4-5
4/10/01	1520			BH14-4F																	10-11
4/10/01	1530			BH14-5A																	0-1
4/10/01	1535			BH14-5B																	1-2
4/10/01	1545			BH14-5D																	3-4
4/10/01	1550			BH14-5E																	4-5
4/10/01	1555			BH14-5F1																	10-11
4/10/01	1555			BH14-5F2																	10-11
4/16/01	1645			BH14-6A																	0-1
4/16/01	1648			BH14-6B																	1-2
4/16/01	1650			BH14-6C	1 BAG									X							2-3

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab: TSC Salt Lake City Utah	P.O. #	Shipped via: Bus, (Fed Ex), UPS Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 5-4-01 1000		

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

Split Samples:
☐ Accepted ☐ Declined

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247x2 | PROJECT NAME: RI Phase III

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							ft REMARKS
4/16/01	1655			BH14-6D	1 BAG									X							3-4
	1700			BH14-6E																	4-5
	1705			BH14-6F1																	10-11
4/16/01	1705			BH14-6F2																	10-11
4/24/01	0920			EP-125A																	0-1
	0925			EP-125B																	1-2
	0944			EP-125C																	6-7
	0950			EP-125D																	10-11
	1000			EP-125E1																	15-16
	1000			EP-125E2																	15-16
	1010			EP-125F																	20-21
	1025			EP-125G																	25-26
	1045			EP-125H																	30-31
	1110			EP-125I																	35-36
4/24	1130			EP-125J	1 BAG																40-41

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC Salt Lake City UT.	P.O. #	Shipped via: Bus, ~~Fed Ex~~, UPS Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) M Henderson	Date/Time 5-4-01 1000	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

Hydrometric Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
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CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247 V2 | PROJECT NAME: RI Phase III

SAMPLERS: (Signature) Thomas Murray

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF								ft REMARKS
4/24/01	1145			EP 125 K	1 BAG									X								45-4
4/26/01	0845			EP-126A																		3-1
	0847			EP-126B																		1-2
	0850			EP 126C																		2-3
	0855			EP 126D																		3-4
	0905			EP 126 E1																		10-1
	0905			EP 126 E2																		10-1
	0920			EP 126F																		15-1
	0925			EP 126 G																		20-2
	0935			EP 126H																		25-0
	0945			EP 126I																		30-3
4/26/01	1005			EP 126 J																		35-3
4/27/01	0905			EP 127A																		0-1
1	0910			EP 127 B																		1-2
4/27/01	0913			EP 127 C	1 BAG									X								2-3

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab: TSC Salt Lake City Utah	P.O. #	Shipped via: Bus, (Fed Ex), UPS Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 5-4-01 1000	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	Split Samples:

Hydrometrics, Inc.

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

HAIN OF CUSTODY RECORD

PROJ. NO.: 1247v2
PROJECT NAME: RI Phase III
SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	(ft) REMARKS
04/27/01	0915			EP-127D	1 BAG										3-4
	0920			EP-127E1											4-5
	0920			EP-127E2											4-5
	1310			EP-128A											0-1
	1315			EP-128B											1-2
	1317			EP-128C											2-3
4/27/01	1320			EP-128D	1 BAG									X	3-4
4/12/01	0925			BH8-12A											0-1
	0930			BH8-12B											1-2
	0935			BH8-12C											2-3
	0940			BH8-12D											3-4
4/12/01	0945			BH8-12E	1 BAG									X	9-10 ft

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC Salt Lake City Utah	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 5-4-01 1000		Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-001	11-APR-01	BH8-5A	AS	6100	ppm	MEC	24-APR-01		EDXRF
			CD	2200	ppm	MEC	24-APR-01		EDXRF
			CR	120	ppm	MEC	24-APR-01		EDXRF
			CU	17000	ppm	MEC	24-APR-01		EDXRF
			FE	5.7	%	MEC	24-APR-01		EDXRF
			PB	24000	ppm	MEC	24-APR-01		EDXRF
			SE	140	ppm	MEC	24-APR-01		EDXRF
			ZN	12000	ppm	MEC	24-APR-01		EDXRF
L010497-002	11-APR-01	BH8-5B	AS	2100	ppm	MEC	24-APR-01		EDXRF
			CD	910	ppm	MEC	24-APR-01		EDXRF
			CR	110	ppm	MEC	24-APR-01		EDXRF
			CU	8200	ppm	MEC	24-APR-01		EDXRF
			FE	4.1	%	MEC	24-APR-01		EDXRF
			PB	13000	ppm	MEC	24-APR-01		EDXRF
			SE	74	ppm	MEC	24-APR-01		EDXRF
			ZN	7200	ppm	MEC	24-APR-01		EDXRF
L010497-003	11-APR-01	BH8-5C	AS	3300	ppm	MEC	24-APR-01		EDXRF
			CD	880	ppm	MEC	24-APR-01		EDXRF
			CR	190	ppm	MEC	24-APR-01		EDXRF
			CU	14000	ppm	MEC	24-APR-01		EDXRF
			FE	10	%	MEC	24-APR-01		EDXRF
			PB	22000	ppm	MEC	24-APR-01		EDXRF
			SE	110	ppm	MEC	24-APR-01		EDXRF
			ZN	8300	ppm	MEC	24-APR-01		EDXRF
L010497-004	11-APR-01	BH8-5D	AS	48	ppm	MEC	24-APR-01		EDXRF
			CD	51	ppm	MEC	24-APR-01		EDXRF
			CR	42	ppm	MEC	24-APR-01		EDXRF
			CU	170	ppm	MEC	24-APR-01		EDXRF
			FE	0.76	%	MEC	24-APR-01		EDXRF
			PB	150	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	180	ppm	MEC	24-APR-01		EDXRF
L010497-005	11-APR-01	BH8-5E	AS	22	ppm	MEC	24-APR-01		EDXRF
			CD	17	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-005	11-APR-01	BH8-5E	CU	52	ppm	MEC	24-APR-01		EDXRF
			FE	0.65	%	MEC	24-APR-01		EDXRF
			PB	49	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	170	ppm	MEC	24-APR-01		EDXRF
L010497-006	11-APR-01	BH8-6A	AS	32	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	330	ppm	MEC	24-APR-01		EDXRF
			FE	0.70	%	MEC	24-APR-01		EDXRF
			PB	330	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	83	ppm	MEC	24-APR-01		EDXRF
L010497-007	11-APR-01	BH8-6B	AS	3500	ppm	MEC	24-APR-01		EDXRF
			CD	280	ppm	MEC	24-APR-01		EDXRF
			CR	200	ppm	MEC	24-APR-01		EDXRF
			CU	18000	ppm	MEC	24-APR-01		EDXRF
			FE	9.5	%	MEC	24-APR-01		EDXRF
			PB	43000	ppm	MEC	24-APR-01		EDXRF
			SE	130	ppm	MEC	24-APR-01		EDXRF
			ZN	9000	ppm	MEC	24-APR-01		EDXRF
L010497-008	11-APR-01	BH8-6C	AS	1600	ppm	MEC	24-APR-01		EDXRF
			CD	300	ppm	MEC	24-APR-01		EDXRF
			CR	120	ppm	MEC	24-APR-01		EDXRF
			CU	21000	ppm	MEC	24-APR-01		EDXRF
			FE	5.8	%	MEC	24-APR-01		EDXRF
			PB	22000	ppm	MEC	24-APR-01		EDXRF
			SE	97	ppm	MEC	24-APR-01		EDXRF
			ZN	6500	ppm	MEC	24-APR-01		EDXRF
L010497-009	11-APR-01	BH8-6D	AS	190	ppm	MEC	24-APR-01		EDXRF
			CD	18	ppm	MEC	24-APR-01		EDXRF
			CR	270	ppm	MEC	24-APR-01		EDXRF
			CU	10000	ppm	MEC	24-APR-01		EDXRF
			FE	13	%	MEC	24-APR-01		EDXRF
			PB	830	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-009	11-APR-01	BH8-6D	SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	1700	ppm	MEC	24-APR-01		EDXRF
L010497-010	11-APR-01	BH8-6E	AS	<10	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	60	ppm	MEC	24-APR-01		EDXRF
			FE	0.75	%	MEC	24-APR-01		EDXRF
			PB	33	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	19	ppm	MEC	24-APR-01		EDXRF
L010497-011	11-APR-01	BH8-6F1	AS	19	ppm	MEC	24-APR-01		EDXRF
			CD	12	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	23	ppm	MEC	24-APR-01		EDXRF
			FE	1.1	%	MEC	24-APR-01		EDXRF
			PB	23	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	24	ppm	MEC	24-APR-01		EDXRF
L010497-012	11-APR-01	BH8-6F2	AS	<10	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	<20	ppm	MEC	24-APR-01		EDXRF
			FE	0.47	%	MEC	24-APR-01		EDXRF
			PB	17	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-013	11-APR-01	BH8-7A	AS	4900	ppm	MEC	24-APR-01		EDXRF
			CD	520	ppm	MEC	24-APR-01		EDXRF
			CR	220	ppm	MEC	24-APR-01		EDXRF
			CU	46000	ppm	MEC	24-APR-01		EDXRF
			FE	9.8	%	MEC	24-APR-01		EDXRF
			PB	24000	ppm	MEC	24-APR-01		EDXRF
			SE	110	ppm	MEC	24-APR-01		EDXRF
			ZN	10000	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-014	11-APR-01	BH8-7B	AS	380	ppm	MEC	24-APR-01		EDXRF
			CD	36	ppm	MEC	24-APR-01		EDXRF
			CR	420	ppm	MEC	24-APR-01		EDXRF
			CU	12000	ppm	MEC	24-APR-01		EDXRF
			FE	18	%	MEC	24-APR-01		EDXRF
			PB	860	ppm	MEC	24-APR-01		EDXRF
			SE	24	ppm	MEC	24-APR-01		EDXRF
			ZN	8300	ppm	MEC	24-APR-01		EDXRF
L010497-015	11-APR-01	BH8-7C	AS	37	ppm	MEC	24-APR-01		EDXRF
			CD	16	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	950	ppm	MEC	24-APR-01		EDXRF
			FE	1.3	%	MEC	24-APR-01		EDXRF
			PB	160	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	200	ppm	MEC	24-APR-01		EDXRF
L010497-016	11-APR-01	BH8-7D	AS	87	ppm	MEC	24-APR-01		EDXRF
			CD	25	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	2700	ppm	MEC	24-APR-01		EDXRF
			FE	1.5	%	MEC	24-APR-01		EDXRF
			PB	350	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	550	ppm	MEC	24-APR-01		EDXRF
L010497-017	11-APR-01	BH8-7E	AS	290	ppm	MEC	24-APR-01		EDXRF
			CD	72	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	5900	ppm	MEC	24-APR-01		EDXRF
			FE	2.2	%	MEC	24-APR-01		EDXRF
			PB	3200	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	1900	ppm	MEC	24-APR-01		EDXRF
L010497-018	11-APR-01	BH8-7F	AS	19	ppm	MEC	24-APR-01		EDXRF
			CD	14	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-018	11-APR-01	BH8-7F	CU	700	ppm	MEC	24-APR-01		EDXRF
			FE	0.76	%	MEC	24-APR-01		EDXRF
			PB	35	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	85	ppm	MEC	24-APR-01		EDXRF
L010497-019	11-APR-01	BH8-7G	AS	28	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	80	ppm	MEC	24-APR-01		EDXRF
			CU	<20	ppm	MEC	24-APR-01		EDXRF
			FE	2.2	%	MEC	24-APR-01		EDXRF
			PB	51	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-020	11-APR-01	BH8-8A	AS	340	ppm	MEC	24-APR-01		EDXRF
			CD	93	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	6100	ppm	MEC	24-APR-01		EDXRF
			FE	2.2	%	MEC	24-APR-01		EDXRF
			PB	2700	ppm	MEC	24-APR-01		EDXRF
			SE	21	ppm	MEC	24-APR-01		EDXRF
			ZN	1900	ppm	MEC	24-APR-01		EDXRF
L010497-021	11-APR-01	BH8-8B	AS	860	ppm	MEC	24-APR-01		EDXRF
			CD	160	ppm	MEC	24-APR-01		EDXRF
			CR	120	ppm	MEC	24-APR-01		EDXRF
			CU	9800	ppm	MEC	24-APR-01		EDXRF
			FE	4.8	%	MEC	24-APR-01		EDXRF
			PB	9200	ppm	MEC	24-APR-01		EDXRF
			SE	37	ppm	MEC	24-APR-01		EDXRF
			ZN	5500	ppm	MEC	24-APR-01		EDXRF
L010497-022	11-APR-01	BH8-8C1	AS	<10	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	48	ppm	MEC	24-APR-01		EDXRF
			FE	0.65	%	MEC	24-APR-01		EDXRF
			PB	74	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-022	11-APR-01	BH8-8C1	SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	170	ppm	MEC	24-APR-01		EDXRF
L010497-023	11-APR-01	BH8-8C2	AS	<10	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	<20	ppm	MEC	24-APR-01		EDXRF
			FE	0.48	%	MEC	24-APR-01		EDXRF
			PB	16	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	36	ppm	MEC	24-APR-01		EDXRF
L010497-024	11-APR-01	BH8-8D	AS	<10	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	<20	ppm	MEC	24-APR-01		EDXRF
			FE	0.63	%	MEC	24-APR-01		EDXRF
			PB	28	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	23	ppm	MEC	24-APR-01		EDXRF
L010497-025	11-APR-01	BH8-9A	AS	4700	ppm	MEC	24-APR-01		EDXRF
			CD	350	ppm	MEC	24-APR-01		EDXRF
			CR	300	ppm	MEC	24-APR-01		EDXRF
			CU	85000	ppm	MEC	24-APR-01		EDXRF
			FE	14	%	MEC	24-APR-01		EDXRF
			PB	38000	ppm	MEC	24-APR-01		EDXRF
			SE	240	ppm	MEC	24-APR-01		EDXRF
			ZN	12000	ppm	MEC	24-APR-01		EDXRF
L010497-026	11-APR-01	BH8-9B	AS	130	ppm	MEC	24-APR-01		EDXRF
			CD	96	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	1700	ppm	MEC	24-APR-01		EDXRF
			FE	1.2	%	MEC	24-APR-01		EDXRF
			PB	210	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	440	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-027	11-APR-01	BH8-9C	AS	13	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	<20	ppm	MEC	24-APR-01		EDXRF
			FE	0.84	%	MEC	24-APR-01		EDXRF
			PB	25	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	14	ppm	MEC	24-APR-01		EDXRF
L010497-028	11-APR-01	BH8-10A1	AS	41	ppm	MEC	24-APR-01		EDXRF
			CD	40	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	91	ppm	MEC	24-APR-01		EDXRF
			FE	0.62	%	MEC	24-APR-01		EDXRF
			PB	120	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	1400	ppm	MEC	24-APR-01		EDXRF
L010497-029	11-APR-01	BH8-10A2	AS	45	ppm	MEC	24-APR-01		EDXRF
			CD	37	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	90	ppm	MEC	24-APR-01		EDXRF
			FE	0.61	%	MEC	24-APR-01		EDXRF
			PB	150	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	1400	ppm	MEC	24-APR-01		EDXRF
L010497-030	11-APR-01	BH8-10B	AS	18	ppm	MEC	24-APR-01		EDXRF
			CD	13	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	<20	ppm	MEC	24-APR-01		EDXRF
			FE	0.45	%	MEC	24-APR-01		EDXRF
			PB	23	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	85	ppm	MEC	24-APR-01		EDXRF
L010497-031	06-APR-01	BH12-22A	AS	88	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-031	06-APR-01	BH12-22A	CU	80	ppm	MEC	24-APR-01		EDXRF
			FE	2.0	%	MEC	24-APR-01		EDXRF
			PB	42	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-032	06-APR-01	BH12-22B	AS	40	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	97	ppm	MEC	24-APR-01		EDXRF
			CU	55	ppm	MEC	24-APR-01		EDXRF
			FE	2.1	%	MEC	24-APR-01		EDXRF
			PB	55	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-033	06-APR-01	EP-120A	AS	77	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	220	ppm	MEC	24-APR-01		EDXRF
			FE	2.3	%	MEC	24-APR-01		EDXRF
			PB	150	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	330	ppm	MEC	24-APR-01		EDXRF
L010497-034	06-APR-01	EP-120B	AS	60	ppm	MEC	24-APR-01		EDXRF
			CD	11	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	350	ppm	MEC	24-APR-01		EDXRF
			FE	1.4	%	MEC	24-APR-01		EDXRF
			PB	220	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	360	ppm	MEC	24-APR-01		EDXRF
L010497-035	06-APR-01	EP-120C	AS	23	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	140	ppm	MEC	24-APR-01		EDXRF
			FE	0.64	%	MEC	24-APR-01		EDXRF
			PB	120	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-035	06-APR-01	EP-120C	SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	92	ppm	MEC	24-APR-01		EDXRF
L010497-036	10-APR-01	EP-121A	AS	51	ppm	MEC	24-APR-01		EDXRF
			CD	17	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	200	ppm	MEC	24-APR-01		EDXRF
			FE	1.2	%	MEC	24-APR-01		EDXRF
			PB	180	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	250	ppm	MEC	24-APR-01		EDXRF
L010497-037	12-APR-01	EP-122A1	AS	200	ppm	MEC	24-APR-01		EDXRF
			CD	74	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	2600	ppm	MEC	24-APR-01		EDXRF
			FE	2.2	%	MEC	24-APR-01		EDXRF
			PB	1400	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	2000	ppm	MEC	24-APR-01		EDXRF
L010497-038	12-APR-01	EP-122B	AS	110	ppm	MEC	24-APR-01		EDXRF
			CD	53	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	1400	ppm	MEC	24-APR-01		EDXRF
			FE	1.9	%	MEC	24-APR-01		EDXRF
			PB	890	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	1200	ppm	MEC	24-APR-01		EDXRF
L010497-039	12-APR-01	EP-122C	AS	42	ppm	MEC	24-APR-01		EDXRF
			CD	11	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	260	ppm	MEC	24-APR-01		EDXRF
			FE	1.3	%	MEC	24-APR-01		EDXRF
			PB	230	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	170	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-040	12-APR-01	EP-122D	AS	37	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	57	ppm	MEC	24-APR-01		EDXRF
			FE	1.3	%	MEC	24-APR-01		EDXRF
			PB	100	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	21	ppm	MEC	24-APR-01		EDXRF
L010497-041	12-APR-01	EP-122E	AS	29	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	38	ppm	MEC	24-APR-01		EDXRF
			FE	1.4	%	MEC	24-APR-01		EDXRF
			PB	42	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-042	12-APR-01	EP-122A2	AS	220	ppm	MEC	24-APR-01		EDXRF
			CD	86	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	2600	ppm	MEC	24-APR-01		EDXRF
			FE	2.2	%	MEC	24-APR-01		EDXRF
			PB	1500	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	2200	ppm	MEC	24-APR-01		EDXRF
L010497-043	12-APR-01	EP-123A	AS	800	ppm	MEC	24-APR-01		EDXRF
			CD	33	ppm	MEC	24-APR-01		EDXRF
			CR	440	ppm	MEC	24-APR-01		EDXRF
			CU	3800	ppm	MEC	24-APR-01		EDXRF
			FE	17	%	MEC	24-APR-01		EDXRF
			PB	1400	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	7600	ppm	MEC	24-APR-01		EDXRF
L010497-044	12-APR-01	EP-123B	AS	77	ppm	MEC	24-APR-01		EDXRF
			CD	13	ppm	MEC	24-APR-01		EDXRF
			CR	130	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-044	12-APR-01	EP-123B	CU	200	ppm	MEC	24-APR-01		EDXRF
			FE	3.3	%	MEC	24-APR-01		EDXRF
			PB	170	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	250	ppm	MEC	24-APR-01		EDXRF
L010497-045	12-APR-01	EP-123C1	AS	21	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	61	ppm	MEC	24-APR-01		EDXRF
			FE	0.92	%	MEC	24-APR-01		EDXRF
			PB	71	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	48	ppm	MEC	24-APR-01		EDXRF
L010497-046	12-APR-01	EP-123C2	AS	22	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	97	ppm	MEC	24-APR-01		EDXRF
			FE	1.2	%	MEC	24-APR-01		EDXRF
			PB	130	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	73	ppm	MEC	24-APR-01		EDXRF
L010497-047	12-APR-01	EP-123D	AS	29	ppm	MEC	24-APR-01		EDXRF
			CD	13	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	69	ppm	MEC	24-APR-01		EDXRF
			FE	0.88	%	MEC	24-APR-01		EDXRF
			PB	59	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-048	12-APR-01	EP-123E	AS	<10	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	44	ppm	MEC	24-APR-01		EDXRF
			FE	0.46	%	MEC	24-APR-01		EDXRF
			PB	48	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-048	12-APR-01	EP-123E	SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-049	12-APR-01	EP-123F	AS	23	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	49	ppm	MEC	24-APR-01		EDXRF
			FE	0.88	%	MEC	24-APR-01		EDXRF
			PB	78	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	<10	ppm	MEC	24-APR-01		EDXRF
L010497-050	12-APR-01	BH8-11A	AS	15000	ppm	MEC	24-APR-01		EDXRF
			CD	730	ppm	MEC	24-APR-01		EDXRF
			CR	180	ppm	MEC	24-APR-01		EDXRF
			CU	45000	ppm	MEC	24-APR-01		EDXRF
			FE	9.3	%	MEC	24-APR-01		EDXRF
			PB	51000	ppm	MEC	24-APR-01		EDXRF
			SE	200	ppm	MEC	24-APR-01		EDXRF
			ZN	11000	ppm	MEC	24-APR-01		EDXRF
L010497-051	12-APR-01	BH8-11B	AS	130	ppm	MEC	24-APR-01		EDXRF
			CD	570	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	1500	ppm	MEC	24-APR-01		EDXRF
			FE	1.5	%	MEC	24-APR-01		EDXRF
			PB	1100	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	2700	ppm	MEC	24-APR-01		EDXRF
L010497-052	12-APR-01	BH8-11C	AS	230	ppm	MEC	24-APR-01		EDXRF
			CD	750	ppm	MEC	24-APR-01		EDXRF
			CR	89	ppm	MEC	24-APR-01		EDXRF
			CU	2200	ppm	MEC	24-APR-01		EDXRF
			FE	3.0	%	MEC	24-APR-01		EDXRF
			PB	1500	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	2100	ppm	MEC	24-APR-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010497

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010497-053	12-APR-01	BH8-11D	AS	96	ppm	MEC	24-APR-01		EDXRF
			CD	27	ppm	MEC	24-APR-01		EDXRF
			CR	110	ppm	MEC	24-APR-01		EDXRF
			CU	960	ppm	MEC	24-APR-01		EDXRF
			FE	4.4	%	MEC	24-APR-01		EDXRF
			PB	1300	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	3900	ppm	MEC	24-APR-01		EDXRF
L010497-054	12-APR-01	BH8-11E	AS	75	ppm	MEC	24-APR-01		EDXRF
			CD	23	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	750	ppm	MEC	24-APR-01		EDXRF
			FE	1.3	%	MEC	24-APR-01		EDXRF
			PB	430	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	400	ppm	MEC	24-APR-01		EDXRF
L010497-055	12-APR-01	BH8-11F	AS	<10	ppm	MEC	24-APR-01		EDXRF
			CD	<10	ppm	MEC	24-APR-01		EDXRF
			CR	<80	ppm	MEC	24-APR-01		EDXRF
			CU	<20	ppm	MEC	24-APR-01		EDXRF
			FE	0.44	%	MEC	24-APR-01		EDXRF
			PB	<10	ppm	MEC	24-APR-01		EDXRF
			SE	<20	ppm	MEC	24-APR-01		EDXRF
			ZN	19	ppm	MEC	24-APR-01		EDXRF

Approved

Reviewer

Hydrometrics Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
1247v2	Phase III RI

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF						(F+) REMARKS
4/11/01	0800			BH8-5A	1 BAG									X						0-1 *
	0805			BH8-5B																1-2 *
	0810			BH8-5C																2-3 *
	0840			BH8-5D																15-16
	0850			BH8-5E																20-21
	0925			BH8-6A																1-2 *
	0928			BH8-6B																2-3 *
	0930			BH8-6C																3-4 *
	0935			BH8-6D																4-5 *
	0950			BH8-6E																15-16
	1000			BH8-6F1																20-21
	1000			BH8-6F2																20-21
	1035			BH8-7A																0-1 *
	1038			BH8-7B																1-2 *
4/11/01	1040			BH8-7C	1 BAG									X						2-3 *

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC, Salt Lake City, Utah	P.O. #	Shipped via: Bus, ~~Fed Ex~~, UPS Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks * Contains some amount of slag		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time 4-17-01 1100	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☑ Cover letter ☐ Other	

4/11/01 1600

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME
1247v2	Phase III RI

SAMPLERS: *(Signature)*

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF						(Ft) REMARKS
4/11/01	1045			BH8-7D	1BAG									X						3-4 *
	1050			BH8-7E																4-5 *
	1130			BH8-7F																15-16
	1140			BH8-7G																20-21
	1340			BH8-8A																0-1 *
	1345			BH8-8B																1-2 *
	1435			BH8-8C1																12-13
	1435			BH8-8C2																12-13
	1440			BH8-8D																18-19
	1515			BH8-9A																0-0.5
	1518			BH8-9B																7-8
	1550			BH8-9C																12-13
	1630			BH8-10A1																10-11
	1630			BH8-10A2																10-11
4/11/01	1640			BH8-10B	1BAG									X						15-16

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
E.K. Crowley	4/16/01 1600		TSC, Salt Lake City, Utah		Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks * Contains some amount of Slag		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)* W Mortensen	Date/Time 4-17-01 1100		Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other

Return results & electronic copy to:

Split Samples: ☐ Accepted ☐ Declined

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO. 12472 | PROJECT NAME RI Phase III

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							REMARKS (Ft)
4/4/01	0850			BH12-22A	1 BAG									X							25-26
	0905			BH12-22B																	31-32
	1040			~~BH12-22A~~ EP-120A																	5-6 *
↓	1120			EP-120B																	10-11
4/6/01	1130			EP-120C																	15-16
4/10/01	0925			EP-121A																	10-11
4/12/01	1040			EP-122A1																	0-1
	1045			EP-122B																	1-2
	1050			EP-122C																	2-3
	1055			EP-122D																	3-4
	1058			EP-122E																	4-5
	1040			EP-122A2																	0-1
	1400			EP-123A																	21-22
↓	1405			EP-123B	↓																23-24
4/12/01	1410			EP-123C1	1 BAG									X							25-26

Relinquished (Signature) | Date/Time 4/16/01 1600 | Received by: (Signature)

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

Relinquished (Signature) | Date/Time | Received for Laboratory by: (Signature) Mortensen | Date/Time 4-17-01 1100

Lab TSC, Salt Lake City, Utah

P.O. #

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

Remarks * Contains some amount of slag

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

Hydrometric Inc.

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME
1247v2	RI Phase III

SAMPLERS: *(Signature)*

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF						(Ft) REMARK
4/12/01	1410			EP-123C2	1 BAG									X						25-26
	1420			EP-123D																30-31
	1435			EP-123E																35-36
	1455			EP-123F																40-41
	0850			BH8-11A																0-1
	0855			BH8-11B																1-2
	0856			BH8-11C																2-3
	0858			BH8-11D																3-4
	0900			BH8-11E																4-5
4/12/01	0905			BH8-11F	1 BAG									X						10-11

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
E.K. Chambers	4/16/01 1600		TSC Salt Lake City, Utah		Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks * Contains some amount of Slag		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☑ Cover letter ☐ Other	
			4-17-01 1100	Split Samples: ☐ Accepted ☐ Declined	

Return results & electronic copy to:

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010532

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010532-001	01-APR-01	BH2-13B 010467-004	AS	29	ppm	EH	27-APR-01		6010
			CD	<10	ppm	EH	27-APR-01		6010
			CR	30	ppm	EH	27-APR-01		6010
			CU	120	ppm	EH	27-APR-01		6010
			FE	20800	ppm	EH	27-APR-01		6010
			PB	32	ppm	EH	27-APR-01		6010
			SE	<10	ppm	EH	27-APR-01		6010
			ZN	169	ppm	EH	27-APR-01		6010
L010532-002	04-APR-01	BH12-15A 010467-022	AS	616	ppm	EH	27-APR-01		6010
			CD	1945	ppm	EH	27-APR-01		6010
			CR	168	ppm	EH	27-APR-01		6010
			CU	1383	ppm	EH	27-APR-01		6010
			FE	16680	ppm	EH	27-APR-01		6010
			PB	1487	ppm	EH	27-APR-01		6010
			SE	<10	ppm	EH	27-APR-01		6010
			ZN	8017	ppm	EH	27-APR-01		6010
L010532-003	11-APR-01	BH8-6A 010497-006	AS	18	ppm	EH	27-APR-01		6010
			CD	<10	ppm	EH	27-APR-01		6010
			CR	32	ppm	EH	27-APR-01		6010
			CU	245	ppm	EH	27-APR-01		6010
			FE	10340	ppm	EH	27-APR-01		6010
			PB	248	ppm	EH	27-APR-01		6010
			SE	<10	ppm	EH	27-APR-01		6010
			ZN	231	ppm	EH	27-APR-01		6010
L010532-004	11-APR-01	BH8-9B 010497-026	AS	118	ppm	EH	27-APR-01		6010
			CD	131	ppm	EH	27-APR-01		6010
			CR	47	ppm	EH	27-APR-01		6010
			CU	1259	ppm	EH	27-APR-01		6010
			FE	17850	ppm	EH	27-APR-01		6010
			PB	184	ppm	EH	27-APR-01		6010
			SE	<10	ppm	EH	27-APR-01		6010
			ZN	385	ppm	EH	27-APR-01		6010
L010532-005	12-APR-01	BH8-11B 010497-051	AS	108	ppm	EH	27-APR-01		6010
			CD	545	ppm	EH	27-APR-01		6010
			CR	47	ppm	EH	27-APR-01		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010532

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010532-005	12-APR-01	BH8-11B 010497-051	CU	1067	ppm	EH	27-APR-01		6010
			FE	18650	ppm	EH	27-APR-01		6010
			PB	1039	ppm	EH	27-APR-01		6010
			SE	<10	ppm	EH	27-APR-01		6010
			ZN	2320	ppm	EH	27-APR-01		6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010360

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010360-1		Matrix Spike	AS	101	%Recovery	EH	27-APR-01		6010
			CD	94	%Recovery	EH	27-APR-01		6010
			CR	101	%Recovery	EH	27-APR-01		6010
			CU	118	%Recovery	EH	27-APR-01		6010
			FE	SR>4XSA	%Recovery	EH	27-APR-01		6010
			PB	103	%Recovery	EH	27-APR-01		6010
			SE	96	%Recovery	EH	27-APR-01		6010
			ZN	122	%Recovery	EH	27-APR-01		6010
WG010360-2		Prep Blank	AS	<10	ppm	EH	27-APR-01		6010
			CD	<10	ppm	EH	27-APR-01		6010
			CR	<10	ppm	EH	27-APR-01		6010
			CU	<10	ppm	EH	27-APR-01		6010
			FE	<10	ppm	EH	27-APR-01		6010
			PB	<10	ppm	EH	27-APR-01		6010
			SE	<10	ppm	EH	27-APR-01		6010
			ZN	<10	ppm	EH	27-APR-01		6010
WG010360-3		Lab Control Sample	AS	97	%Recovery	EH	27-APR-01		6010
			CD	93	%Recovery	EH	27-APR-01		6010
			CR	84	%Recovery	EH	27-APR-01		6010
			CU	108	%Recovery	EH	27-APR-01		6010
			FE	94	%Recovery	EH	27-APR-01		6010
			PB	98	%Recovery	EH	27-APR-01		6010
			SE	*	%Recovery	EH	27-APR-01		6010
			ZN	97	%Recovery	EH	27-APR-01		6010
WG010360-5		Matrix Spike Duplicate	AS	<1.0	% RPD	EH	27-APR-01		6010
			CD	<1.0	% RPD	EH	27-APR-01		6010
			CR	<1.0	% RPD	EH	27-APR-01		6010
			CU	4	% RPD	EH	27-APR-01		6010
			FE	6.4	% RPD	EH	27-APR-01		6010
			PB	2.4	% RPD	EH	27-APR-01		6010
			SE	1.8	% RPD	EH	27-APR-01		6010
			ZN	18	% RPD	EH	27-APR-01		6010
WG010360-6		Reporting Limit	AS	10	ppm				6010
			CD	10	ppm				6010
			CR	10	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010360

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010360-6		Reporting Limit	CU	10	ppm				6010
			FE	10	ppm				6010
			PB	10	ppm				6010
			SE	10	ppm				6010
			ZN	10	ppm				6010

* True Se value for NBS 2711 is 1.5 ppm. Value found was <10 ppm.
SR>4XSA indicates sample result was 4 times greater than the spike added and the spike recovery was not evaluated.

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010692-001	09-MAY-01	BH11-14A	AS	140	ppm	LCS	25-MAY-01		EDXRF
			CD	38	ppm	LCS	25-MAY-01		EDXRF
			CR	95	ppm	LCS	25-MAY-01		EDXRF
			CU	1800	ppm	LCS	25-MAY-01		EDXRF
			FE	2.7	%	LCS	25-MAY-01		EDXRF
			PB	990	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	1100	ppm	LCS	25-MAY-01		EDXRF
L010692-002	09-MAY-01	BH11-14B	AS	84	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	820	ppm	LCS	25-MAY-01		EDXRF
			FE	1.6	%	LCS	25-MAY-01		EDXRF
			PB	640	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	470	ppm	LCS	25-MAY-01		EDXRF
L010692-003	09-MAY-01	BH11-14C	AS	32	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	200	ppm	LCS	25-MAY-01		EDXRF
			FE	1.2	%	LCS	25-MAY-01		EDXRF
			PB	180	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	92	ppm	LCS	25-MAY-01		EDXRF
L010692-004	09-MAY-01	BH11-14D	AS	33	ppm	LCS	25-MAY-01		EDXRF
			CD	12	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	300	ppm	LCS	25-MAY-01		EDXRF
			FE	1.4	%	LCS	25-MAY-01		EDXRF
			PB	290	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	180	ppm	LCS	25-MAY-01		EDXRF
L010692-005	30-APR-01	BH11-15A	AS	34	ppm	LCS	25-MAY-01		EDXRF
			CD	10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010692-005	30-APR-01	BH11-15A	CU	120	ppm	LCS	25-MAY-01		EDXRF
			FE	1.7	%	LCS	25-MAY-01		EDXRF
			PB	170	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	77	ppm	LCS	25-MAY-01		EDXRF
L010692-006	30-APR-01	BH11-15B	AS	15	ppm	LCS	25-MAY-01		EDXRF
			CD	12	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	23	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	73	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	14	ppm	LCS	25-MAY-01		EDXRF
L010692-007	30-APR-01	BH11-15C	AS	15	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	25	ppm	LCS	25-MAY-01		EDXRF
			FE	0.67	%	LCS	25-MAY-01		EDXRF
			PB	57	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-008	30-APR-01	BH11-15D	AS	16	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	32	ppm	LCS	25-MAY-01		EDXRF
			FE	0.38	%	LCS	25-MAY-01		EDXRF
			PB	51	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-009	30-APR-01	BH11-15E	AS	33	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	66	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	59	ppm	LCS	25-MAY-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010692-009	30-APR-01	BH11-15E	SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-010	30-APR-01	BH11-15F1	AS	15	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	44	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	51	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-011	30-APR-01	BH11-15F2	AS	15	ppm	LCS	25-MAY-01		EDXRF
			CD	14	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	29	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	58	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-012	02-MAY-01	EP-129A	AS	150	ppm	LCS	25-MAY-01		EDXRF
			CD	33	ppm	LCS	25-MAY-01		EDXRF
			CR	98	ppm	LCS	25-MAY-01		EDXRF
			CU	1600	ppm	LCS	25-MAY-01		EDXRF
			FE	3.0	%	LCS	25-MAY-01		EDXRF
			PB	910	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	1300	ppm	LCS	25-MAY-01		EDXRF
L010692-013	02-MAY-01	EP-129B	AS	33	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	37	ppm	LCS	25-MAY-01		EDXRF
			FE	2.2	%	LCS	25-MAY-01		EDXRF
			PB	39	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	22	ppm	LCS	25-MAY-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010692-014	02-MAY-01	EP-129C	AS	32	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	22	ppm	LCS	25-MAY-01		EDXRF
			FE	2.3	%	LCS	25-MAY-01		EDXRF
			PB	36	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-015	02-MAY-01	EP-129D	AS	21	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	34	ppm	LCS	25-MAY-01		EDXRF
			FE	1.8	%	LCS	25-MAY-01		EDXRF
			PB	51	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-016	02-MAY-01	EP-129E	AS	25	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	63	ppm	LCS	25-MAY-01		EDXRF
			FE	1.8	%	LCS	25-MAY-01		EDXRF
			PB	40	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-017	02-MAY-01	EP-129F	AS	22	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	59	ppm	LCS	25-MAY-01		EDXRF
			FE	1.5	%	LCS	25-MAY-01		EDXRF
			PB	48	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-018	02-MAY-01	EP-129G1	AS	26	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010692-018	02-MAY-01	EP-129G1	CU	68	ppm	LCS	25-MAY-01		EDXRF
			FE	1.8	%	LCS	25-MAY-01		EDXRF
			PB	50	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-019	02-MAY-01	EP-129G2	AS	34	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	53	ppm	LCS	25-MAY-01		EDXRF
			FE	1.9	%	LCS	25-MAY-01		EDXRF
			PB	42	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-020	02-MAY-01	EP-129H	AS	37	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	28	ppm	LCS	25-MAY-01		EDXRF
			FE	1.8	%	LCS	25-MAY-01		EDXRF
			PB	69	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-021	02-MAY-01	EP-129I	AS	31	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	80	ppm	LCS	25-MAY-01		EDXRF
			FE	1.6	%	LCS	25-MAY-01		EDXRF
			PB	64	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-022	30-APR-01	BH11-15G	AS	25	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	65	ppm	LCS	25-MAY-01		EDXRF
			FE	0.40	%	LCS	25-MAY-01		EDXRF
			PB	56	ppm	LCS	25-MAY-01		EDXRF

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L010692-022	30-APR-01	BH11-15G	SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-023	30-APR-01	BH11-15H	AS	22	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	37	ppm	LCS	25-MAY-01		EDXRF
			FE	0.94	%	LCS	25-MAY-01		EDXRF
			PB	48	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	<10	ppm	LCS	25-MAY-01		EDXRF
L010692-024	09-MAY-01	BH11-11A	AS	180	ppm	LCS	25-MAY-01		EDXRF
			CD	48	ppm	LCS	25-MAY-01		EDXRF
			CR	87	ppm	LCS	25-MAY-01		EDXRF
			CU	2000	ppm	LCS	25-MAY-01		EDXRF
			FE	2.9	%	LCS	25-MAY-01		EDXRF
			PB	1500	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	1200	ppm	LCS	25-MAY-01		EDXRF
L010692-025	09-MAY-01	BH11-11B	AS	63	ppm	LCS	25-MAY-01		EDXRF
			CD	26	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	870	ppm	LCS	25-MAY-01		EDXRF
			FE	1.6	%	LCS	25-MAY-01		EDXRF
			PB	760	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	520	ppm	LCS	25-MAY-01		EDXRF
L010692-026	09-MAY-01	BH11-11C	AS	71	ppm	LCS	25-MAY-01		EDXRF
			CD	19	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	590	ppm	LCS	25-MAY-01		EDXRF
			FE	1.4	%	LCS	25-MAY-01		EDXRF
			PB	520	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	390	ppm	LCS	25-MAY-01		EDXRF

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L010692-027	09-MAY-01	BH11-11D	AS	60	ppm	LCS	25-MAY-01		EDXRF
			CD	23	ppm	LCS	25-MAY-01		EDXRF
			CR	92	ppm	LCS	25-MAY-01		EDXRF
			CU	650	ppm	LCS	25-MAY-01		EDXRF
			FE	1.6	%	LCS	25-MAY-01		EDXRF
			PB	590	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	360	ppm	LCS	25-MAY-01		EDXRF
L010692-028	09-MAY-01	BH11-12A	AS	270	ppm	LCS	25-MAY-01		EDXRF
			CD	53	ppm	LCS	25-MAY-01		EDXRF
			CR	92	ppm	LCS	25-MAY-01		EDXRF
			CU	2700	ppm	LCS	25-MAY-01		EDXRF
			FE	3.3	%	LCS	25-MAY-01		EDXRF
			PB	1900	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	1700	ppm	LCS	25-MAY-01		EDXRF
L010692-029	09-MAY-01	BH11-12B	AS	35	ppm	LCS	25-MAY-01		EDXRF
			CD	11	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	200	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	200	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	170	ppm	LCS	25-MAY-01		EDXRF
L010692-030	09-MAY-01	BH11-12C1	AS	23	ppm	LCS	25-MAY-01		EDXRF
			CD	15	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	130	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	130	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	77	ppm	LCS	25-MAY-01		EDXRF
L010692-031	09-MAY-01	BH11-12C2	AS	15	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF

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L010692-031	09-MAY-01	BH11-12C2	CU	150	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	180	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	150	ppm	LCS	25-MAY-01		EDXRF
L010692-032	09-MAY-01	BH11-12D	AS	46	ppm	LCS	25-MAY-01		EDXRF
			CD	14	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	280	ppm	LCS	25-MAY-01		EDXRF
			FE	1.3	%	LCS	25-MAY-01		EDXRF
			PB	300	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	190	ppm	LCS	25-MAY-01		EDXRF
L010692-033	09-MAY-01	BH11-13A	AS	91	ppm	LCS	25-MAY-01		EDXRF
			CD	18	ppm	LCS	25-MAY-01		EDXRF
			CR	110	ppm	LCS	25-MAY-01		EDXRF
			CU	810	ppm	LCS	25-MAY-01		EDXRF
			FE	3.1	%	LCS	25-MAY-01		EDXRF
			PB	370	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	620	ppm	LCS	25-MAY-01		EDXRF
L010692-034	09-MAY-01	BH11-13B	AS	40	ppm	LCS	25-MAY-01		EDXRF
			CD	12	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	360	ppm	LCS	25-MAY-01		EDXRF
			FE	1.1	%	LCS	25-MAY-01		EDXRF
			PB	360	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	290	ppm	LCS	25-MAY-01		EDXRF
L010692-035	09-MAY-01	BH11-13C	AS	21	ppm	LCS	25-MAY-01		EDXRF
			CD	15	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	100	ppm	LCS	25-MAY-01		EDXRF
			FE	1.4	%	LCS	25-MAY-01		EDXRF
			PB	120	ppm	LCS	25-MAY-01		EDXRF

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L010692-035	09-MAY-01	BH11-13C	SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	75	ppm	LCS	25-MAY-01		EDXRF
L010692-036	09-MAY-01	BH11-8A	AS	98	ppm	LCS	25-MAY-01		EDXRF
			CD	22	ppm	LCS	25-MAY-01		EDXRF
			CR	86	ppm	LCS	25-MAY-01		EDXRF
			CU	1300	ppm	LCS	25-MAY-01		EDXRF
			FE	2.9	%	LCS	25-MAY-01		EDXRF
			PB	640	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	930	ppm	LCS	25-MAY-01		EDXRF
L010692-037	09-MAY-01	BH11-8B	AS	190	ppm	LCS	25-MAY-01		EDXRF
			CD	36	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	1800	ppm	LCS	25-MAY-01		EDXRF
			FE	2.3	%	LCS	25-MAY-01		EDXRF
			PB	1700	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	1100	ppm	LCS	25-MAY-01		EDXRF
L010692-038	09-MAY-01	BH11-8C	AS	53	ppm	LCS	25-MAY-01		EDXRF
			CD	16	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	500	ppm	LCS	25-MAY-01		EDXRF
			FE	1.5	%	LCS	25-MAY-01		EDXRF
			PB	440	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	240	ppm	LCS	25-MAY-01		EDXRF
L010692-039	09-MAY-01	BH11-8D	AS	43	ppm	LCS	25-MAY-01		EDXRF
			CD	14	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	390	ppm	LCS	25-MAY-01		EDXRF
			FE	1.5	%	LCS	25-MAY-01		EDXRF
			PB	340	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	250	ppm	LCS	25-MAY-01		EDXRF

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L010692-040	09-MAY-01	BH11-9A	AS	110	ppm	LCS	25-MAY-01		EDXRF
			CD	20	ppm	LCS	25-MAY-01		EDXRF
			CR	110	ppm	LCS	25-MAY-01		EDXRF
			CU	1400	ppm	LCS	25-MAY-01		EDXRF
			FE	3.0	%	LCS	25-MAY-01		EDXRF
			PB	670	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	1000	ppm	LCS	25-MAY-01		EDXRF
L010692-041	09-MAY-01	BH11-9B	AS	59	ppm	LCS	25-MAY-01		EDXRF
			CD	10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	510	ppm	LCS	25-MAY-01		EDXRF
			FE	1.6	%	LCS	25-MAY-01		EDXRF
			PB	510	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	380	ppm	LCS	25-MAY-01		EDXRF
L010692-042	09-MAY-01	BH11-9C1	AS	62	ppm	LCS	25-MAY-01		EDXRF
			CD	22	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	720	ppm	LCS	25-MAY-01		EDXRF
			FE	1.8	%	LCS	25-MAY-01		EDXRF
			PB	620	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	440	ppm	LCS	25-MAY-01		EDXRF
L010692-043	09-MAY-01	BH11-9C2	AS	29	ppm	LCS	25-MAY-01		EDXRF
			CD	16	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	250	ppm	LCS	25-MAY-01		EDXRF
			FE	1.5	%	LCS	25-MAY-01		EDXRF
			PB	260	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	170	ppm	LCS	25-MAY-01		EDXRF
L010692-044	09-MAY-01	BH11-10A	AS	110	ppm	LCS	25-MAY-01		EDXRF
			CD	14	ppm	LCS	25-MAY-01		EDXRF
			CR	81	ppm	LCS	25-MAY-01		EDXRF

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L010692-044	09-MAY-01	BH11-10A	CU	930	ppm	LCS	25-MAY-01		EDXRF
			FE	2.4	%	LCS	25-MAY-01		EDXRF
			PB	620	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	720	ppm	LCS	25-MAY-01		EDXRF
L010692-045	09-MAY-01	BH11-10B	AS	55	ppm	LCS	25-MAY-01		EDXRF
			CD	13	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	280	ppm	LCS	25-MAY-01		EDXRF
			FE	2.0	%	LCS	25-MAY-01		EDXRF
			PB	320	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	190	ppm	LCS	25-MAY-01		EDXRF
L010692-046	09-MAY-01	BH11-10C	AS	68	ppm	LCS	25-MAY-01		EDXRF
			CD	12	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	700	ppm	LCS	25-MAY-01		EDXRF
			FE	1.6	%	LCS	25-MAY-01		EDXRF
			PB	640	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	440	ppm	LCS	25-MAY-01		EDXRF
L010692-047	09-MAY-01	BH11-10D	AS	41	ppm	LCS	25-MAY-01		EDXRF
			CD	18	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	280	ppm	LCS	25-MAY-01		EDXRF
			FE	1.2	%	LCS	25-MAY-01		EDXRF
			PB	260	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	180	ppm	LCS	25-MAY-01		EDXRF
L010692-048	09-MAY-01	BH11-5A	AS	170	ppm	LCS	25-MAY-01		EDXRF
			CD	31	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	2000	ppm	LCS	25-MAY-01		EDXRF
			FE	3.0	%	LCS	25-MAY-01		EDXRF
			PB	1400	ppm	LCS	25-MAY-01		EDXRF

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L010692-048	09-MAY-01	BH11-5A	SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	1200	ppm	LCS	25-MAY-01		EDXRF
L010692-049	09-MAY-01	BH11-5B	AS	45	ppm	LCS	25-MAY-01		EDXRF
			CD	18	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	490	ppm	LCS	25-MAY-01		EDXRF
			FE	1.4	%	LCS	25-MAY-01		EDXRF
			PB	460	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	340	ppm	LCS	25-MAY-01		EDXRF
L010692-050	09-MAY-01	BH11-5C1	AS	35	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	270	ppm	LCS	25-MAY-01		EDXRF
			FE	1.2	%	LCS	25-MAY-01		EDXRF
			PB	280	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	180	ppm	LCS	25-MAY-01		EDXRF
L010692-051	09-MAY-01	BH11-5C2	AS	26	ppm	LCS	25-MAY-01		EDXRF
			CD	17	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	280	ppm	LCS	25-MAY-01		EDXRF
			FE	1.2	%	LCS	25-MAY-01		EDXRF
			PB	300	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	220	ppm	LCS	25-MAY-01		EDXRF
L010692-052	09-MAY-01	BH11-5D	AS	41	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	480	ppm	LCS	25-MAY-01		EDXRF
			FE	1.4	%	LCS	25-MAY-01		EDXRF
			PB	410	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	260	ppm	LCS	25-MAY-01		EDXRF

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Water and Solid Waste (Project 3220)

Batch No: L010692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010692-053	09-MAY-01	BH11-6A	AS	95	ppm	LCS	25-MAY-01		EDXRF
			CD	31	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	1300	ppm	LCS	25-MAY-01		EDXRF
			FE	2.2	%	LCS	25-MAY-01		EDXRF
			PB	930	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	770	ppm	LCS	25-MAY-01		EDXRF
L010692-054	09-MAY-01	BH11-6B	AS	140	ppm	LCS	25-MAY-01		EDXRF
			CD	32	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	1400	ppm	LCS	25-MAY-01		EDXRF
			FE	2.0	%	LCS	25-MAY-01		EDXRF
			PB	980	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	830	ppm	LCS	25-MAY-01		EDXRF
L010692-055	09-MAY-01	BH11-7A	AS	82	ppm	LCS	25-MAY-01		EDXRF
			CD	18	ppm	LCS	25-MAY-01		EDXRF
			CR	87	ppm	LCS	25-MAY-01		EDXRF
			CU	830	ppm	LCS	25-MAY-01		EDXRF
			FE	2.2	%	LCS	25-MAY-01		EDXRF
			PB	540	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	620	ppm	LCS	25-MAY-01		EDXRF
L010692-056	09-MAY-01	BH11-7B	AS	89	ppm	LCS	25-MAY-01		EDXRF
			CD	26	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF
			CU	1300	ppm	LCS	25-MAY-01		EDXRF
			FE	1.7	%	LCS	25-MAY-01		EDXRF
			PB	960	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	680	ppm	LCS	25-MAY-01		EDXRF
L010692-057	09-MAY-01	BH11-7C	AS	54	ppm	LCS	25-MAY-01		EDXRF
			CD	<10	ppm	LCS	25-MAY-01		EDXRF
			CR	<80	ppm	LCS	25-MAY-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010692-057	09-MAY-01	BH11-7C	CU	380	ppm	LCS	25-MAY-01		EDXRF
			FE	1.4	%	LCS	25-MAY-01		EDXRF
			PB	370	ppm	LCS	25-MAY-01		EDXRF
			SE	<20	ppm	LCS	25-MAY-01		EDXRF
			ZN	260	ppm	LCS	25-MAY-01		EDXRF

Approved

Reviewer

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO. 1147v2 | PROJECT NAME R.I. Phase III

SAMPLERS: (Signature) Thomas Murray

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							REMARKS
5/9/01	0940			BH 11-14A	1 Bag									X							0-1
5/9/01	0945			BH 11-14B																	1-2
5/9/01	0950			BH 11-14C																	2-3
5/9/01	0958			BH 11-14D																	3-4
4/30/01	1415			BH 11-15A																	0-1
4/30/01	1420			BH 11-15B																	1-2
4/30/01	1430			BH 11-15C																	2-3
4/30/01	1435			BH 11-15D																	3-4
4/30/01	1440			BH 11-15E																	4-5
4/30/01	1440			BH 11-15F1																	10-11
4/30/01	1440			BH 11-15F2																	10-11
5/2/01	1400			EP-129A																	0-1
5/2/01	1403			EP-129B																	1-2
5/2/01	1425			EP-129C																	2-3
5/2/01	1430			EP-129D	1 BAG									X							3-4

Relinquished (Signature) | Date/Time 5/14/01 1600 | Received by: (Signature) | Lab TSC Salt Lake City Ut | P.O. # | Shipped via: Bus, Fed Ex, UPS
Other
Air Bill #

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

Relinquished (Signature) | Date/Time | Received for Laboratory by: (Signature) | Date/Time 5/15/01 1300

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

Hydrometrics Inc.

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CHAIN OF CUSTODY RECORD

PROJ. NO.: 1147 r2 | PROJECT NAME: RI. Phase III

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							REMARKS
5/2/01	1435			EP-129E	1 BAG									X							4-5
5/2/01	1445			EP-129F																	10-11
5/2/01	1455			EP-129G1																	15-16
5/2/01	1455			EP-129G2																	15-16
5/2/01	1505			EP-129H																	20-21
5/2/01	1520			EP-129I																	25-26
4/30/01	1445			BH 11-15G																	15-16
4/30/01	1515			BH 11-15H																	25-26
5/9/01	1350			BH 11-11A																	0-1
	1355			BH 11-11B																	1-2
	1405			BH 11-11C																	2-3
	1410			BH 11-11D																	3-4
	1415			BH 11-12A																	0-1
	1420			BH 11-12B																	1-2
5/9/01	1430			BH 11-12C1	1 BAG									X							2-3

Relinquished (Signature) — Date/Time: 5/11/01 1600 — Received by: (Signature)

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

Relinquished (Signature) — Date/Time — Received for Laboratory by: (Signature) — Date/Time: 5-15-01 1300

Lab: TSC Salt Lake City, Ut.

P.O. #

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

Remarks

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

Split Samples: ☐ Accepted ☐ Declined — Signature

Hydrometrics, Inc.

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CHAIN OF CUSTODY RECORD

PROJ. NO.: 1147 v2 | PROJECT NAME: CT Phase III

SAMPLERS: (Signature)

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	X XRF	REMARKS
5/9/01	1430			BH 11-12C2	1BAG										2-3
	1435			BH 11-12D											3-4
	1450			BH 11-13A											0-1
	1457			BH 11-13B											1-2
	1502			BH 11-13C											2-3
	1115			BH 11-8A											0-1
	1125			BH 11-8B											1-2
	1130			BH 11-8C											2-3
	1135			BH 11-8D											3-4
	1310			BH 11-9A											0-1
	1315			BH 11-9B											1-2
	1320			BH 11-9C1											2-3
	1320			BH 11-9C2											2-3
	1330			BH 11-10A											0-1
5/9/01	1335			BH 11-10B	1BAG										1-2

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab / P.O. # / Shipped via: Bus, Fed Ex, UPS
[signature]	5/14/01 1600		Other / Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 1320

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

Hydrometric Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 11471.02 | PROJECT NAME: R.I. Phase III

SAMPLERS: (Signature) Alfonso Montano

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	REMARKS
5/9/01	1340			BH 11-10C	1 BAG									X	2-3
	1345			BH 11-10D											3-4
	1000			BH 11-5A											0-1
	1005			BH 11-5B											1-2
	1015			BH 11-5C1											2-3
	1015			BH 11-5C2											2-3
	1018			BH 11-5D											3-4
	1030			BH 11-6A											0-1
	1035			BH 11-6B											1-2
	1100			BH 11-7A											0-1
	1105			BH 11-7B											1-2
5/9/01	1108			BH 11-7C	1 BAG									X	2-3

Relinquished (Signature): [signature] | Date/Time: 5/14/01 1600 | Received by: (Signature) | Lab: TSC Salt Lake City Ut. | P.O. # | Shipped via: Bus, RedEx, UPS

Other

Air Bill #

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

Relinquished (Signature) | Date/Time | Received for Laboratory by: (Signature) [signature] | Date/Time: 5-15-01 1300

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

Split Samples:

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-001	25-MAY-01	BH9-6-9C	AS	100	ppm	LCS	19-JUN-01		EDXRF
			CD	30	ppm	LCS	19-JUN-01		EDXRF
			CR	90	ppm	LCS	19-JUN-01		EDXRF
			CU	240	ppm	LCS	19-JUN-01		EDXRF
			FE	2.4	%	LCS	19-JUN-01		EDXRF
			PB	250	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	1000	ppm	LCS	19-JUN-01		EDXRF
L010831-002	25-MAY-01	BH9-6-9D	AS	38	ppm	LCS	19-JUN-01		EDXRF
			CD	20	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	57	ppm	LCS	19-JUN-01		EDXRF
			FE	1.0	%	LCS	19-JUN-01		EDXRF
			PB	62	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	750	ppm	LCS	19-JUN-01		EDXRF
L010831-003	25-MAY-01	BH9-6-10A	AS	5200	ppm	LCS	19-JUN-01		EDXRF
			CD	2100	ppm	LCS	19-JUN-01		EDXRF
			CR	220	ppm	LCS	19-JUN-01		EDXRF
			CU	44000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.6	%	LCS	19-JUN-01		EDXRF
			PB	19000	ppm	LCS	19-JUN-01		EDXRF
			SE	120	ppm	LCS	19-JUN-01		EDXRF
			ZN	20000	ppm	LCS	19-JUN-01		EDXRF
L010831-004	25-MAY-01	BH9-6-10B	AS	280	ppm	LCS	19-JUN-01		EDXRF
			CD	260	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	1800	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	1600	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	1700	ppm	LCS	19-JUN-01		EDXRF
L010831-005	25-MAY-01	BH9-6-10C	AS	62	ppm	LCS	19-JUN-01		EDXRF
			CD	46	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-005	25-MAY-01	BH9-6-10C	CU	85	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	73	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	300	ppm	LCS	19-JUN-01		EDXRF
L010831-006	25-MAY-01	BH9-6-10D	AS	73	ppm	LCS	19-JUN-01		EDXRF
			CD	31	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	76	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	63	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	230	ppm	LCS	19-JUN-01		EDXRF
L010831-007	25-MAY-01	BH9-6-16A	AS	3200	ppm	LCS	19-JUN-01		EDXRF
			CD	1600	ppm	LCS	19-JUN-01		EDXRF
			CR	150	ppm	LCS	19-JUN-01		EDXRF
			CU	21000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.1	%	LCS	19-JUN-01		EDXRF
			PB	16000	ppm	LCS	19-JUN-01		EDXRF
			SE	83	ppm	LCS	19-JUN-01		EDXRF
			ZN	14000	ppm	LCS	19-JUN-01		EDXRF
L010831-008	25-MAY-01	BH9-6-16B1	AS	1400	ppm	LCS	19-JUN-01		EDXRF
			CD	790	ppm	LCS	19-JUN-01		EDXRF
			CR	120	ppm	LCS	19-JUN-01		EDXRF
			CU	8100	ppm	LCS	19-JUN-01		EDXRF
			FE	2.6	%	LCS	19-JUN-01		EDXRF
			PB	10000	ppm	LCS	19-JUN-01		EDXRF
			SE	60	ppm	LCS	19-JUN-01		EDXRF
			ZN	5700	ppm	LCS	19-JUN-01		EDXRF
L010831-009	25-MAY-01	BH9-6-16B2	AS	760	ppm	LCS	19-JUN-01		EDXRF
			CD	390	ppm	LCS	19-JUN-01		EDXRF
			CR	110	ppm	LCS	19-JUN-01		EDXRF
			CU	3900	ppm	LCS	19-JUN-01		EDXRF
			FE	2.5	%	LCS	19-JUN-01		EDXRF
			PB	4700	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-009	25-MAY-01	BH9-6-16B2	SE	33	ppm	LCS	19-JUN-01		EDXRF
			ZN	3400	ppm	LCS	19-JUN-01		EDXRF
L010831-010	25-MAY-01	BH9-6-16C	AS	140	ppm	LCS	19-JUN-01		EDXRF
			CD	14	ppm	LCS	19-JUN-01		EDXRF
			CR	110	ppm	LCS	19-JUN-01		EDXRF
			CU	49	ppm	LCS	19-JUN-01		EDXRF
			FE	3.1	%	LCS	19-JUN-01		EDXRF
			PB	66	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	54	ppm	LCS	19-JUN-01		EDXRF
L010831-011	25-MAY-01	BH9-6-16D	AS	43	ppm	LCS	19-JUN-01		EDXRF
			CD	13	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	66	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	55	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-012	26-MAY-01	BH9-6-17A	AS	14000	ppm	LCS	19-JUN-01		EDXRF
			CD	3400	ppm	LCS	19-JUN-01		EDXRF
			CR	150	ppm	LCS	19-JUN-01		EDXRF
			CU	55000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.0	%	LCS	19-JUN-01		EDXRF
			PB	34000	ppm	LCS	19-JUN-01		EDXRF
			SE	120	ppm	LCS	19-JUN-01		EDXRF
			ZN	34000	ppm	LCS	19-JUN-01		EDXRF
L010831-013	26-MAY-01	BH9-6-17B	AS	2400	ppm	LCS	19-JUN-01		EDXRF
			CD	1200	ppm	LCS	19-JUN-01		EDXRF
			CR	250	ppm	LCS	19-JUN-01		EDXRF
			CU	17000	ppm	LCS	19-JUN-01		EDXRF
			FE	2.7	%	LCS	19-JUN-01		EDXRF
			PB	18000	ppm	LCS	19-JUN-01		EDXRF
			SE	78	ppm	LCS	19-JUN-01		EDXRF
			ZN	8900	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-014	26-MAY-01	BH9-6-17C	AS	4600	ppm	LCS	19-JUN-01		EDXRF
			CD	13000	ppm	LCS	19-JUN-01		EDXRF
			CR	330	ppm	LCS	19-JUN-01		EDXRF
			CU	21000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.5	%	LCS	19-JUN-01		EDXRF
			PB	90000	ppm	LCS	19-JUN-01		EDXRF
			SE	180	ppm	LCS	19-JUN-01		EDXRF
			ZN	33000	ppm	LCS	19-JUN-01		EDXRF
L010831-015	26-MAY-01	BH9-6-17D	AS	130	ppm	LCS	19-JUN-01		EDXRF
			CD	77	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	330	ppm	LCS	19-JUN-01		EDXRF
			FE	2.0	%	LCS	19-JUN-01		EDXRF
			PB	550	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	530	ppm	LCS	19-JUN-01		EDXRF
L010831-016	25-MAY-01	BH9-6-11A	AS	6200	ppm	LCS	19-JUN-01		EDXRF
			CD	3900	ppm	LCS	19-JUN-01		EDXRF
			CR	290	ppm	LCS	19-JUN-01		EDXRF
			CU	57000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.4	%	LCS	19-JUN-01		EDXRF
			PB	46000	ppm	LCS	19-JUN-01		EDXRF
			SE	180	ppm	LCS	19-JUN-01		EDXRF
			ZN	21000	ppm	LCS	19-JUN-01		EDXRF
L010831-017	25-MAY-01	BH9-6-11B	AS	3100	ppm	LCS	19-JUN-01		EDXRF
			CD	8200	ppm	LCS	19-JUN-01		EDXRF
			CR	340	ppm	LCS	19-JUN-01		EDXRF
			CU	13000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.5	%	LCS	19-JUN-01		EDXRF
			PB	63000	ppm	LCS	19-JUN-01		EDXRF
			SE	160	ppm	LCS	19-JUN-01		EDXRF
			ZN	20000	ppm	LCS	19-JUN-01		EDXRF
L010831-018	25-MAY-01	BH9-6-11C	AS	1400	ppm	LCS	19-JUN-01		EDXRF
			CD	2200	ppm	LCS	19-JUN-01		EDXRF
			CR	170	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-018	25-MAY-01	BH9-6-11C	CU	9200	ppm	LCS	19-JUN-01		EDXRF
			FE	2.5	%	LCS	19-JUN-01		EDXRF
			PB	14000	ppm	LCS	19-JUN-01		EDXRF
			SE	92	ppm	LCS	19-JUN-01		EDXRF
			ZN	7500	ppm	LCS	19-JUN-01		EDXRF
L010831-019	25-MAY-01	BH9-6-11D	AS	94	ppm	LCS	19-JUN-01		EDXRF
			CD	31	ppm	LCS	19-JUN-01		EDXRF
			CR	83	ppm	LCS	19-JUN-01		EDXRF
			CU	390	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	230	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	140	ppm	LCS	19-JUN-01		EDXRF
L010831-020	25-MAY-01	BH9-6-12A	AS	7200	ppm	LCS	19-JUN-01		EDXRF
			CD	1800	ppm	LCS	19-JUN-01		EDXRF
			CR	260	ppm	LCS	19-JUN-01		EDXRF
			CU	46000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.0	%	LCS	19-JUN-01		EDXRF
			PB	24000	ppm	LCS	19-JUN-01		EDXRF
			SE	140	ppm	LCS	19-JUN-01		EDXRF
			ZN	21000	ppm	LCS	19-JUN-01		EDXRF
L010831-021	25-MAY-01	BH9-6-12B	AS	6100	ppm	LCS	19-JUN-01		EDXRF
			CD	8300	ppm	LCS	19-JUN-01		EDXRF
			CR	390	ppm	LCS	19-JUN-01		EDXRF
			CU	21000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.7	%	LCS	19-JUN-01		EDXRF
			PB	120000	ppm	LCS	19-JUN-01		EDXRF
			SE	170	ppm	LCS	19-JUN-01		EDXRF
			ZN	30000	ppm	LCS	19-JUN-01		EDXRF
L010831-022	25-MAY-01	BH9-6-12C	AS	400	ppm	LCS	19-JUN-01		EDXRF
			CD	450	ppm	LCS	19-JUN-01		EDXRF
			CR	86	ppm	LCS	19-JUN-01		EDXRF
			CU	1600	ppm	LCS	19-JUN-01		EDXRF
			FE	2.1	%	LCS	19-JUN-01		EDXRF
			PB	2900	ppm	LCS	19-JUN-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-022	25-MAY-01	BH9-6-12C	SE	26	ppm	LCS	19-JUN-01		EDXRF
			ZN	2300	ppm	LCS	19-JUN-01		EDXRF
L010831-023	25-MAY-01	BH9-6-13A	AS	4900	ppm	LCS	19-JUN-01		EDXRF
			CD	7900	ppm	LCS	19-JUN-01		EDXRF
			CR	280	ppm	LCS	19-JUN-01		EDXRF
			CU	28000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.2	%	LCS	19-JUN-01		EDXRF
			PB	60000	ppm	LCS	19-JUN-01		EDXRF
			SE	170	ppm	LCS	19-JUN-01		EDXRF
			ZN	24000	ppm	LCS	19-JUN-01		EDXRF
L010831-024	25-MAY-01	BH9-6-14A1	AS	3800	ppm	LCS	19-JUN-01		EDXRF
			CD	1200	ppm	LCS	19-JUN-01		EDXRF
			CR	230	ppm	LCS	19-JUN-01		EDXRF
			CU	29000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.4	%	LCS	19-JUN-01		EDXRF
			PB	6000	ppm	LCS	19-JUN-01		EDXRF
			SE	120	ppm	LCS	19-JUN-01		EDXRF
			ZN	10000	ppm	LCS	19-JUN-01		EDXRF
L010831-025	25-MAY-01	BH9-6-14A2	AS	3700	ppm	LCS	19-JUN-01		EDXRF
			CD	1100	ppm	LCS	19-JUN-01		EDXRF
			CR	250	ppm	LCS	19-JUN-01		EDXRF
			CU	23000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.0	%	LCS	19-JUN-01		EDXRF
			PB	6100	ppm	LCS	19-JUN-01		EDXRF
			SE	110	ppm	LCS	19-JUN-01		EDXRF
			ZN	9400	ppm	LCS	19-JUN-01		EDXRF
L010831-026	25-MAY-01	BH9-6-14B	AS	17000	ppm	LCS	19-JUN-01		EDXRF
			CD	3100	ppm	LCS	19-JUN-01		EDXRF
			CR	180	ppm	LCS	19-JUN-01		EDXRF
			CU	77000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.9	%	LCS	19-JUN-01		EDXRF
			PB	59000	ppm	LCS	19-JUN-01		EDXRF
			SE	190	ppm	LCS	19-JUN-01		EDXRF
			ZN	44000	ppm	LCS	19-JUN-01		EDXRF

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L010831-027	25-MAY-01	BH9-6-14C	AS	29000	ppm	LCS	19-JUN-01		EDXRF
			CD	5000	ppm	LCS	19-JUN-01		EDXRF
			CR	210	ppm	LCS	19-JUN-01		EDXRF
			CU	91000	ppm	LCS	19-JUN-01		EDXRF
			FE	6.7	%	LCS	19-JUN-01		EDXRF
			PB	65000	ppm	LCS	19-JUN-01		EDXRF
			SE	210	ppm	LCS	19-JUN-01		EDXRF
			ZN	46000	ppm	LCS	19-JUN-01		EDXRF
L010831-028	25-MAY-01	BH9-6-14D	AS	4500	ppm	LCS	19-JUN-01		EDXRF
			CD	6700	ppm	LCS	19-JUN-01		EDXRF
			CR	350	ppm	LCS	19-JUN-01		EDXRF
			CU	15000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.3	%	LCS	19-JUN-01		EDXRF
			PB	56000	ppm	LCS	19-JUN-01		EDXRF
			SE	160	ppm	LCS	19-JUN-01		EDXRF
			ZN	22000	ppm	LCS	19-JUN-01		EDXRF
L010831-029	24-MAY-01	BH9-1-18A	AS	530	ppm	LCS	19-JUN-01		EDXRF
			CD	510	ppm	LCS	19-JUN-01		EDXRF
			CR	120	ppm	LCS	19-JUN-01		EDXRF
			CU	4000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.1	%	LCS	19-JUN-01		EDXRF
			PB	4100	ppm	LCS	19-JUN-01		EDXRF
			SE	27	ppm	LCS	19-JUN-01		EDXRF
			ZN	3500	ppm	LCS	19-JUN-01		EDXRF
L010831-030	24-MAY-01	BH9-1-18B	AS	100	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	120	ppm	LCS	19-JUN-01		EDXRF
			CU	420	ppm	LCS	19-JUN-01		EDXRF
			FE	3.8	%	LCS	19-JUN-01		EDXRF
			PB	110	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	180	ppm	LCS	19-JUN-01		EDXRF
L010831-031	24-MAY-01	BH9-1-18C	AS	110	ppm	LCS	19-JUN-01		EDXRF
			CD	13	ppm	LCS	19-JUN-01		EDXRF
			CR	120	ppm	LCS	19-JUN-01		EDXRF

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Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-031	24-MAY-01	BH9-1-18C	CU	620	ppm	LCS	19-JUN-01		EDXRF
			FE	3.8	%	LCS	19-JUN-01		EDXRF
			PB	160	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	230	ppm	LCS	19-JUN-01		EDXRF
L010831-032	25-MAY-01	BH9-1-18D	AS	230	ppm	LCS	19-JUN-01		EDXRF
			CD	75	ppm	LCS	19-JUN-01		EDXRF
			CR	120	ppm	LCS	19-JUN-01		EDXRF
			CU	2000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.8	%	LCS	19-JUN-01		EDXRF
			PB	780	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	890	ppm	LCS	19-JUN-01		EDXRF
L010831-033	25-MAY-01	BH9-1-18E	AS	72	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	130	ppm	LCS	19-JUN-01		EDXRF
			CU	230	ppm	LCS	19-JUN-01		EDXRF
			FE	4.1	%	LCS	19-JUN-01		EDXRF
			PB	110	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	150	ppm	LCS	19-JUN-01		EDXRF
L010831-034	25-MAY-01	BH9-1-18F	AS	65	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	140	ppm	LCS	19-JUN-01		EDXRF
			CU	110	ppm	LCS	19-JUN-01		EDXRF
			FE	4.2	%	LCS	19-JUN-01		EDXRF
			PB	48	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	89	ppm	LCS	19-JUN-01		EDXRF
L010831-035	25-MAY-01	BH9-1-18G1	AS	77	ppm	LCS	19-JUN-01		EDXRF
			CD	13	ppm	LCS	19-JUN-01		EDXRF
			CR	110	ppm	LCS	19-JUN-01		EDXRF
			CU	130	ppm	LCS	19-JUN-01		EDXRF
			FE	3.8	%	LCS	19-JUN-01		EDXRF
			PB	150	ppm	LCS	19-JUN-01		EDXRF

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Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	120	ppm	LCS	19-JUN-01		EDXRF
L010831-035	25-MAY-01	BH9-1-18G1							
			AS	69	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-036	25-MAY-01	BH9-1-18G2	CR	120	ppm	LCS	19-JUN-01		EDXRF
			CU	110	ppm	LCS	19-JUN-01		EDXRF
			FE	3.7	%	LCS	19-JUN-01		EDXRF
			PB	94	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	67	ppm	LCS	19-JUN-01		EDXRF
			AS	67	ppm	LCS	19-JUN-01		EDXRF
			CD	17	ppm	LCS	19-JUN-01		EDXRF
L010831-037	25-MAY-01	BH9-1-18H	CR	120	ppm	LCS	19-JUN-01		EDXRF
			CU	310	ppm	LCS	19-JUN-01		EDXRF
			FE	4.0	%	LCS	19-JUN-01		EDXRF
			PB	69	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	98	ppm	LCS	19-JUN-01		EDXRF
			AS	54	ppm	LCS	19-JUN-01		EDXRF
			CD	18	ppm	LCS	19-JUN-01		EDXRF
L010831-038	26-MAY-01	BH9-1-18I	CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	200	ppm	LCS	19-JUN-01		EDXRF
			FE	2.0	%	LCS	19-JUN-01		EDXRF
			PB	200	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	130	ppm	LCS	19-JUN-01		EDXRF
			AS	62	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-039	26-MAY-01	BH9-1-18J	CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	35	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	53	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF

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Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-040	25-MAY-01	BH9-6-8A	AS	9200	ppm	LCS	19-JUN-01		EDXRF
			CD	4000	ppm	LCS	19-JUN-01		EDXRF
			CR	290	ppm	LCS	19-JUN-01		EDXRF
			CU	46000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.1	%	LCS	19-JUN-01		EDXRF
			PB	30000	ppm	LCS	19-JUN-01		EDXRF
			SE	150	ppm	LCS	19-JUN-01		EDXRF
			ZN	25000	ppm	LCS	19-JUN-01		EDXRF
L010831-041	25-MAY-01	BH9-6-8B	AS	200	ppm	LCS	19-JUN-01		EDXRF
			CD	280	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	1700	ppm	LCS	19-JUN-01		EDXRF
			FE	1.9	%	LCS	19-JUN-01		EDXRF
			PB	1200	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	1300	ppm	LCS	19-JUN-01		EDXRF
L010831-042	25-MAY-01	BH9-6-8C	AS	54	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	66	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	68	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	32	ppm	LCS	19-JUN-01		EDXRF
L010831-043	25-MAY-01	BH9-6-9A	AS	20000	ppm	LCS	19-JUN-01		EDXRF
			CD	7000	ppm	LCS	19-JUN-01		EDXRF
			CR	250	ppm	LCS	19-JUN-01		EDXRF
			CU	79000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.7	%	LCS	19-JUN-01		EDXRF
			PB	65000	ppm	LCS	19-JUN-01		EDXRF
			SE	200	ppm	LCS	19-JUN-01		EDXRF
			ZN	42000	ppm	LCS	19-JUN-01		EDXRF
L010831-044	25-MAY-01	BH9-6-9B1	AS	1400	ppm	LCS	19-JUN-01		EDXRF
			CD	1500	ppm	LCS	19-JUN-01		EDXRF
			CR	140	ppm	LCS	19-JUN-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-044	25-MAY-01	BH9-6-9B1	CU	6300	ppm	LCS	19-JUN-01		EDXRF
			FE	3.1	%	LCS	19-JUN-01		EDXRF
			PB	6600	ppm	LCS	19-JUN-01		EDXRF
			SE	84	ppm	LCS	19-JUN-01		EDXRF
			ZN	7500	ppm	LCS	19-JUN-01		EDXRF
L010831-045	25-MAY-01	BH9-6-9B2	AS	3700	ppm	LCS	19-JUN-01		EDXRF
			CD	5900	ppm	LCS	19-JUN-01		EDXRF
			CR	250	ppm	LCS	19-JUN-01		EDXRF
			CU	16000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.8	%	LCS	19-JUN-01		EDXRF
			PB	44000	ppm	LCS	19-JUN-01		EDXRF
			SE	190	ppm	LCS	19-JUN-01		EDXRF
			ZN	20000	ppm	LCS	19-JUN-01		EDXRF
L010831-046	25-MAY-01	BH9-6-5A	AS	4600	ppm	LCS	19-JUN-01		EDXRF
			CD	910	ppm	LCS	19-JUN-01		EDXRF
			CR	260	ppm	LCS	19-JUN-01		EDXRF
			CU	71000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.2	%	LCS	19-JUN-01		EDXRF
			PB	16000	ppm	LCS	19-JUN-01		EDXRF
			SE	170	ppm	LCS	19-JUN-01		EDXRF
			ZN	12000	ppm	LCS	19-JUN-01		EDXRF
L010831-047	25-MAY-01	BH9-6-5B	AS	4300	ppm	LCS	19-JUN-01		EDXRF
			CD	1900	ppm	LCS	19-JUN-01		EDXRF
			CR	360	ppm	LCS	19-JUN-01		EDXRF
			CU	110000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.4	%	LCS	19-JUN-01		EDXRF
			PB	31000	ppm	LCS	19-JUN-01		EDXRF
			SE	150	ppm	LCS	19-JUN-01		EDXRF
			ZN	19000	ppm	LCS	19-JUN-01		EDXRF
L010831-048	25-MAY-01	BH9-6-5C	AS	9700	ppm	LCS	19-JUN-01		EDXRF
			CD	12000	ppm	LCS	19-JUN-01		EDXRF
			CR	480	ppm	LCS	19-JUN-01		EDXRF
			CU	51000	ppm	LCS	19-JUN-01		EDXRF
			FE	2.9	%	LCS	19-JUN-01		EDXRF
			PB	100000	ppm	LCS	19-JUN-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-048	25-MAY-01	BH9-6-5C	SE	280	ppm	LCS	19-JUN-01		EDXRF
			ZN	44000	ppm	LCS	19-JUN-01		EDXRF
L010831-049	25-MAY-01	BH9-6-5D	AS	9100	ppm	LCS	19-JUN-01		EDXRF
			CD	12000	ppm	LCS	19-JUN-01		EDXRF
			CR	450	ppm	LCS	19-JUN-01		EDXRF
			CU	40000	ppm	LCS	19-JUN-01		EDXRF
			FE	2.9	%	LCS	19-JUN-01		EDXRF
			PB	92000	ppm	LCS	19-JUN-01		EDXRF
			SE	230	ppm	LCS	19-JUN-01		EDXRF
			ZN	51000	ppm	LCS	19-JUN-01		EDXRF
L010831-050	25-MAY-01	BH9-6-5E1	AS	260	ppm	LCS	19-JUN-01		EDXRF
			CD	770	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	2400	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	2000	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	2600	ppm	LCS	19-JUN-01		EDXRF
L010831-051	25-MAY-01	BH9-6-5E2	AS	770	ppm	LCS	19-JUN-01		EDXRF
			CD	1300	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	6000	ppm	LCS	19-JUN-01		EDXRF
			FE	2.1	%	LCS	19-JUN-01		EDXRF
			PB	5400	ppm	LCS	19-JUN-01		EDXRF
			SE	35	ppm	LCS	19-JUN-01		EDXRF
			ZN	6300	ppm	LCS	19-JUN-01		EDXRF
L010831-052	25-MAY-01	BH9-6-5F	AS	48	ppm	LCS	19-JUN-01		EDXRF
			CD	17	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	44	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	45	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	12	ppm	LCS	19-JUN-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-053	25-MAY-01	BH9-6-6A	AS	3400	ppm	LCS	19-JUN-01		EDXRF
			CD	5100	ppm	LCS	19-JUN-01		EDXRF
			CR	240	ppm	LCS	19-JUN-01		EDXRF
			CU	26000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.2	%	LCS	19-JUN-01		EDXRF
			PB	12000	ppm	LCS	19-JUN-01		EDXRF
			SE	130	ppm	LCS	19-JUN-01		EDXRF
			ZN	14000	ppm	LCS	19-JUN-01		EDXRF
L010831-054	25-MAY-01	BH9-6-6B	AS	49	ppm	LCS	19-JUN-01		EDXRF
			CD	49	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	170	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	180	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	110	ppm	LCS	19-JUN-01		EDXRF
L010831-055	25-MAY-01	BH9-6-7A	AS	31000	ppm	LCS	19-JUN-01		EDXRF
			CD	5600	ppm	LCS	19-JUN-01		EDXRF
			CR	180	ppm	LCS	19-JUN-01		EDXRF
			CU	110000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.1	%	LCS	19-JUN-01		EDXRF
			PB	31000	ppm	LCS	19-JUN-01		EDXRF
			SE	160	ppm	LCS	19-JUN-01		EDXRF
			ZN	59000	ppm	LCS	19-JUN-01		EDXRF
L010831-056	25-MAY-01	BH9-6-7B	AS	2900	ppm	LCS	19-JUN-01		EDXRF
			CD	8100	ppm	LCS	19-JUN-01		EDXRF
			CR	280	ppm	LCS	19-JUN-01		EDXRF
			CU	14000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.3	%	LCS	19-JUN-01		EDXRF
			PB	32000	ppm	LCS	19-JUN-01		EDXRF
			SE	170	ppm	LCS	19-JUN-01		EDXRF
			ZN	19000	ppm	LCS	19-JUN-01		EDXRF
L010831-057	25-MAY-01	BH9-6-7C	AS	130	ppm	LCS	19-JUN-01		EDXRF
			CD	54	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-057	25-MAY-01	BH9-6-7C	CU	640	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	390	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	410	ppm	LCS	19-JUN-01		EDXRF
L010831-058	25-MAY-01	BH9-6-7D	AS	67	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	87	ppm	LCS	19-JUN-01		EDXRF
			CU	57	ppm	LCS	19-JUN-01		EDXRF
			FE	2.0	%	LCS	19-JUN-01		EDXRF
			PB	55	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	41	ppm	LCS	19-JUN-01		EDXRF
L010831-059	26-MAY-01	BH9-6-18F	AS	900	ppm	LCS	19-JUN-01		EDXRF
			CD	250	ppm	LCS	19-JUN-01		EDXRF
			CR	270	ppm	LCS	19-JUN-01		EDXRF
			CU	140000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.9	%	LCS	19-JUN-01		EDXRF
			PB	6800	ppm	LCS	19-JUN-01		EDXRF
			SE	78	ppm	LCS	19-JUN-01		EDXRF
			ZN	4400	ppm	LCS	19-JUN-01		EDXRF
L010831-060	26-MAY-01	BH9-6-18G	AS	4700	ppm	LCS	19-JUN-01		EDXRF
			CD	1800	ppm	LCS	19-JUN-01		EDXRF
			CR	270	ppm	LCS	19-JUN-01		EDXRF
			CU	140000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.4	%	LCS	19-JUN-01		EDXRF
			PB	14000	ppm	LCS	19-JUN-01		EDXRF
			SE	160	ppm	LCS	19-JUN-01		EDXRF
			ZN	34000	ppm	LCS	19-JUN-01		EDXRF
L010831-061	26-MAY-01	BH9-6-18H	AS	6600	ppm	LCS	19-JUN-01		EDXRF
			CD	4700	ppm	LCS	19-JUN-01		EDXRF
			CR	270	ppm	LCS	19-JUN-01		EDXRF
			CU	94000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.5	%	LCS	19-JUN-01		EDXRF
			PB	30000	ppm	LCS	19-JUN-01		EDXRF

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L010831-061	26-MAY-01	BH9-6-18H	SE	150	ppm	LCS	19-JUN-01		EDXRF
			ZN	54000	ppm	LCS	19-JUN-01		EDXRF
L010831-062	26-MAY-01	BH9-6-19A	AS	5000	ppm	LCS	19-JUN-01		EDXRF
			CD	5200	ppm	LCS	19-JUN-01		EDXRF
			CR	210	ppm	LCS	19-JUN-01		EDXRF
			CU	34000	ppm	LCS	19-JUN-01		EDXRF
			FE	3.9	%	LCS	19-JUN-01		EDXRF
			PB	19000	ppm	LCS	19-JUN-01		EDXRF
			SE	170	ppm	LCS	19-JUN-01		EDXRF
			ZN	23000	ppm	LCS	19-JUN-01		EDXRF
L010831-063	26-MAY-01	BH9-6-19B	AS	74	ppm	LCS	19-JUN-01		EDXRF
			CD	21	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	290	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	140	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	220	ppm	LCS	19-JUN-01		EDXRF
L010831-064	26-MAY-01	BH9-6-19C1	AS	64	ppm	LCS	19-JUN-01		EDXRF
			CD	16	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	110	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	73	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	65	ppm	LCS	19-JUN-01		EDXRF
L010831-065	26-MAY-01	BH9-6-19C2	AS	62	ppm	LCS	19-JUN-01		EDXRF
			CD	19	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	130	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	92	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	110	ppm	LCS	19-JUN-01		EDXRF

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L010831-066	26-MAY-01	BH9-6-19D	AS	53	ppm	LCS	19-JUN-01		EDXRF
			CD	16	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	72	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	38	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	10	ppm	LCS	19-JUN-01		EDXRF
L010831-067	26-MAY-01	BH9-6-20A	AS	30000	ppm	LCS	19-JUN-01		EDXRF
			CD	8600	ppm	LCS	19-JUN-01		EDXRF
			CR	240	ppm	LCS	19-JUN-01		EDXRF
			CU	110000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.9	%	LCS	19-JUN-01		EDXRF
			PB	20000	ppm	LCS	19-JUN-01		EDXRF
			SE	120	ppm	LCS	19-JUN-01		EDXRF
			ZN	50000	ppm	LCS	19-JUN-01		EDXRF
L010831-068	26-MAY-01	BH9-6-20B	AS	11000	ppm	LCS	19-JUN-01		EDXRF
			CD	6200	ppm	LCS	19-JUN-01		EDXRF
			CR	330	ppm	LCS	19-JUN-01		EDXRF
			CU	28000	ppm	LCS	19-JUN-01		EDXRF
			FE	6.4	%	LCS	19-JUN-01		EDXRF
			PB	79000	ppm	LCS	19-JUN-01		EDXRF
			SE	190	ppm	LCS	19-JUN-01		EDXRF
			ZN	39000	ppm	LCS	19-JUN-01		EDXRF
L010831-069	26-MAY-01	BH9-6-20C	AS	140	ppm	LCS	19-JUN-01		EDXRF
			CD	27	ppm	LCS	19-JUN-01		EDXRF
			CR	100	ppm	LCS	19-JUN-01		EDXRF
			CU	180	ppm	LCS	19-JUN-01		EDXRF
			FE	3.6	%	LCS	19-JUN-01		EDXRF
			PB	150	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	180	ppm	LCS	19-JUN-01		EDXRF
L010831-070	26-MAY-01	BH9-6-20D	AS	100	ppm	LCS	19-JUN-01		EDXRF
			CD	26	ppm	LCS	19-JUN-01		EDXRF
			CR	110	ppm	LCS	19-JUN-01		EDXRF

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L010831-070	26-MAY-01	BH9-6-20D	CU	100	ppm	LCS	19-JUN-01		EDXRF
			FE	3.4	%	LCS	19-JUN-01		EDXRF
			PB	100	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	190	ppm	LCS	19-JUN-01		EDXRF
L010831-071	26-MAY-01	BH9-6-20E	AS	67	ppm	LCS	19-JUN-01		EDXRF
			CD	17	ppm	LCS	19-JUN-01		EDXRF
			CR	80	ppm	LCS	19-JUN-01		EDXRF
			CU	97	ppm	LCS	19-JUN-01		EDXRF
			FE	2.4	%	LCS	19-JUN-01		EDXRF
			PB	360	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	110	ppm	LCS	19-JUN-01		EDXRF
L010831-072	26-MAY-01	BH9-6-22A	AS	12000	ppm	LCS	19-JUN-01		EDXRF
			CD	4200	ppm	LCS	19-JUN-01		EDXRF
			CR	200	ppm	LCS	19-JUN-01		EDXRF
			CU	69000	ppm	LCS	19-JUN-01		EDXRF
			FE	5.2	%	LCS	19-JUN-01		EDXRF
			PB	15000	ppm	LCS	19-JUN-01		EDXRF
			SE	130	ppm	LCS	19-JUN-01		EDXRF
			ZN	38000	ppm	LCS	19-JUN-01		EDXRF
L010831-073	26-MAY-01	BH9-6-22B	AS	1300	ppm	LCS	19-JUN-01		EDXRF
			CD	1100	ppm	LCS	19-JUN-01		EDXRF
			CR	160	ppm	LCS	19-JUN-01		EDXRF
			CU	6900	ppm	LCS	19-JUN-01		EDXRF
			FE	5.2	%	LCS	19-JUN-01		EDXRF
			PB	7700	ppm	LCS	19-JUN-01		EDXRF
			SE	51	ppm	LCS	19-JUN-01		EDXRF
			ZN	5200	ppm	LCS	19-JUN-01		EDXRF
L010831-074	26-MAY-01	BH9-6-22C	AS	83	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	88	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	51	ppm	LCS	19-JUN-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-074	26-MAY-01	BH9-6-22C	SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-075	26-MAY-01	BH9-6-22D	AS	53	ppm	LCS	19-JUN-01		EDXRF
			CD	12	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	39	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	70	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-076	25-MAY-01	BH9-6-23A	AS	11000	ppm	LCS	19-JUN-01		EDXRF
			CD	5900	ppm	LCS	19-JUN-01		EDXRF
			CR	350	ppm	LCS	19-JUN-01		EDXRF
			CU	66000	ppm	LCS	19-JUN-01		EDXRF
			FE	6.7	%	LCS	19-JUN-01		EDXRF
			PB	34000	ppm	LCS	19-JUN-01		EDXRF
			SE	180	ppm	LCS	19-JUN-01		EDXRF
			ZN	38000	ppm	LCS	19-JUN-01		EDXRF
L010831-077	26-MAY-01	BH9-6-23B	AS	6000	ppm	LCS	19-JUN-01		EDXRF
			CD	3500	ppm	LCS	19-JUN-01		EDXRF
			CR	440	ppm	LCS	19-JUN-01		EDXRF
			CU	47000	ppm	LCS	19-JUN-01		EDXRF
			FE	9.8	%	LCS	19-JUN-01		EDXRF
			PB	33000	ppm	LCS	19-JUN-01		EDXRF
			SE	220	ppm	LCS	19-JUN-01		EDXRF
			ZN	29000	ppm	LCS	19-JUN-01		EDXRF
L010831-078	25-MAY-01	BH9-6-15A	AS	10000	ppm	LCS	19-JUN-01		EDXRF
			CD	4900	ppm	LCS	19-JUN-01		EDXRF
			CR	410	ppm	LCS	19-JUN-01		EDXRF
			CU	31000	ppm	LCS	19-JUN-01		EDXRF
			FE	6.5	%	LCS	19-JUN-01		EDXRF
			PB	64000	ppm	LCS	19-JUN-01		EDXRF
			SE	160	ppm	LCS	19-JUN-01		EDXRF
			ZN	30000	ppm	LCS	19-JUN-01		EDXRF

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L010831-079	25-MAY-01	BH9-6-15B1	AS	120	ppm	LCS	19-JUN-01		EDXRF
			CD	17	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	190	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	290	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	120	ppm	LCS	19-JUN-01		EDXRF
L010831-080	25-MAY-01	BH9-6-15B2	AS	82	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	52	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	140	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	28	ppm	LCS	19-JUN-01		EDXRF
L010831-081	25-MAY-01	BH9-6-15C	AS	91	ppm	LCS	19-JUN-01		EDXRF
			CD	12	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	130	ppm	LCS	19-JUN-01		EDXRF
			FE	2.0	%	LCS	19-JUN-01		EDXRF
			PB	160	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	50	ppm	LCS	19-JUN-01		EDXRF
L010831-082	26-MAY-01	BH9-6-18A	AS	680	ppm	LCS	19-JUN-01		EDXRF
			CD	120	ppm	LCS	19-JUN-01		EDXRF
			CR	340	ppm	LCS	19-JUN-01		EDXRF
			CU	220000	ppm	LCS	19-JUN-01		EDXRF
			FE	7.1	%	LCS	19-JUN-01		EDXRF
			PB	6000	ppm	LCS	19-JUN-01		EDXRF
			SE	98	ppm	LCS	19-JUN-01		EDXRF
			ZN	5900	ppm	LCS	19-JUN-01		EDXRF
L010831-083	26-MAY-01	BH9-6-18B	AS	2100	ppm	LCS	19-JUN-01		EDXRF
			CD	230	ppm	LCS	19-JUN-01		EDXRF
			CR	270	ppm	LCS	19-JUN-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-083	26-MAY-01	BH9-6-18B	CU	180000	ppm	LCS	19-JUN-01		EDXRF
			FE	7.3	%	LCS	19-JUN-01		EDXRF
			PB	7800	ppm	LCS	19-JUN-01		EDXRF
			SE	110	ppm	LCS	19-JUN-01		EDXRF
			ZN	9300	ppm	LCS	19-JUN-01		EDXRF
L010831-084	26-MAY-01	BH9-6-18C	AS	980	ppm	LCS	19-JUN-01		EDXRF
			CD	160	ppm	LCS	19-JUN-01		EDXRF
			CR	190	ppm	LCS	19-JUN-01		EDXRF
			CU	280000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.7	%	LCS	19-JUN-01		EDXRF
			PB	2600	ppm	LCS	19-JUN-01		EDXRF
			SE	52	ppm	LCS	19-JUN-01		EDXRF
			ZN	5400	ppm	LCS	19-JUN-01		EDXRF
L010831-085	26-MAY-01	BH9-6-18D	AS	4500	ppm	LCS	19-JUN-01		EDXRF
			CD	400	ppm	LCS	19-JUN-01		EDXRF
			CR	220	ppm	LCS	19-JUN-01		EDXRF
			CU	180000	ppm	LCS	19-JUN-01		EDXRF
			FE	6.4	%	LCS	19-JUN-01		EDXRF
			PB	12000	ppm	LCS	19-JUN-01		EDXRF
			SE	140	ppm	LCS	19-JUN-01		EDXRF
			ZN	6500	ppm	LCS	19-JUN-01		EDXRF
L010831-086	26-MAY-01	BH9-6-18E	AS	950	ppm	LCS	19-JUN-01		EDXRF
			CD	140	ppm	LCS	19-JUN-01		EDXRF
			CR	270	ppm	LCS	19-JUN-01		EDXRF
			CU	180000	ppm	LCS	19-JUN-01		EDXRF
			FE	4.5	%	LCS	19-JUN-01		EDXRF
			PB	4500	ppm	LCS	19-JUN-01		EDXRF
			SE	67	ppm	LCS	19-JUN-01		EDXRF
			ZN	4400	ppm	LCS	19-JUN-01		EDXRF
L010831-087	30-MAY-01	EP-131H	AS	46	ppm	LCS	19-JUN-01		EDXRF
			CD	18	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	94	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	160	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-087	30-MAY-01	EP-131H	SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	140	ppm	LCS	19-JUN-01		EDXRF
L010831-088	04-JUN-01	EP-132A1	AS	110	ppm	LCS	19-JUN-01		EDXRF
			CD	22	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	1400	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	890	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	480	ppm	LCS	19-JUN-01		EDXRF
L010831-089	04-JUN-01	EP-132A2	AS	92	ppm	LCS	19-JUN-01		EDXRF
			CD	24	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	1400	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	840	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	440	ppm	LCS	19-JUN-01		EDXRF
L010831-090	04-JUN-01	EP-132B	AS	230	ppm	LCS	19-JUN-01		EDXRF
			CD	48	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	1600	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	1800	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	920	ppm	LCS	19-JUN-01		EDXRF
L010831-091	04-JUN-01	EP-132C	AS	51	ppm	LCS	19-JUN-01		EDXRF
			CD	19	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	260	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	400	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	170	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-092	04-JUN-01	EP-132D	AS	18	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	32	ppm	LCS	19-JUN-01		EDXRF
			FE	1.4	%	LCS	19-JUN-01		EDXRF
			PB	38	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	10	ppm	LCS	19-JUN-01		EDXRF
L010831-093	04-JUN-01	EP-132E	AS	29	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	34	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	56	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	21	ppm	LCS	19-JUN-01		EDXRF
L010831-094	04-JUN-01	EP-132F	AS	35	ppm	LCS	19-JUN-01		EDXRF
			CD	13	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	100	ppm	LCS	19-JUN-01		EDXRF
			FE	1.4	%	LCS	19-JUN-01		EDXRF
			PB	99	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	41	ppm	LCS	19-JUN-01		EDXRF
L010831-095	04-JUN-01	EP-132G	AS	31	ppm	LCS	19-JUN-01		EDXRF
			CD	11	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	<20	ppm	LCS	19-JUN-01		EDXRF
			FE	1.3	%	LCS	19-JUN-01		EDXRF
			PB	42	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-096	29-MAY-01	EP-130A	AS	340	ppm	LCS	19-JUN-01		EDXRF
			CD	27	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-096	29-MAY-01	EP-130A	CU	28	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	61	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	25	ppm	LCS	19-JUN-01		EDXRF
L010831-097	29-MAY-01	EP-130B	AS	31	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	<20	ppm	LCS	19-JUN-01		EDXRF
			FE	1.9	%	LCS	19-JUN-01		EDXRF
			PB	34	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-098	29-MAY-01	EP-130C	AS	56	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	41	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	30	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	20	ppm	LCS	19-JUN-01		EDXRF
L010831-099	29-MAY-01	EP-130D	AS	53	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	37	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	32	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-100	29-MAY-01	EP-130E	AS	65	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	<20	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	56	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-100	29-MAY-01	EP-130E	SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-101	29-MAY-01	EP-130F	AS	35	ppm	LCS	19-JUN-01		EDXRF
			CD	15	ppm	LCS	19-JUN-01		EDXRF
			CR	100	ppm	LCS	19-JUN-01		EDXRF
			CU	39	ppm	LCS	19-JUN-01		EDXRF
			FE	3.3	%	LCS	19-JUN-01		EDXRF
			PB	24	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	94	ppm	LCS	19-JUN-01		EDXRF
L010831-102	29-MAY-01	EP-130G	AS	64	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	150	ppm	LCS	19-JUN-01		EDXRF
			CU	71	ppm	LCS	19-JUN-01		EDXRF
			FE	4.9	%	LCS	19-JUN-01		EDXRF
			PB	39	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	71	ppm	LCS	19-JUN-01		EDXRF
L010831-103	30-MAY-01	EP-131A	AS	900	ppm	LCS	19-JUN-01		EDXRF
			CD	200	ppm	LCS	19-JUN-01		EDXRF
			CR	240	ppm	LCS	19-JUN-01		EDXRF
			CU	44000	ppm	LCS	19-JUN-01		EDXRF
			FE	13	%	LCS	19-JUN-01		EDXRF
			PB	4500	ppm	LCS	19-JUN-01		EDXRF
			SE	83	ppm	LCS	19-JUN-01		EDXRF
			ZN	7700	ppm	LCS	19-JUN-01		EDXRF
L010831-104	30-MAY-01	EP-131B1	AS	37	ppm	LCS	19-JUN-01		EDXRF
			CD	14	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	23	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	80	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	47	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-105	30-MAY-01	EP-131B2	AS	27	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	84	ppm	LCS	19-JUN-01		EDXRF
			FE	1.6	%	LCS	19-JUN-01		EDXRF
			PB	93	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	69	ppm	LCS	19-JUN-01		EDXRF
L010831-106	30-MAY-01	EP-131C	AS	34	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	78	ppm	LCS	19-JUN-01		EDXRF
			FE	1.8	%	LCS	19-JUN-01		EDXRF
			PB	74	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	69	ppm	LCS	19-JUN-01		EDXRF
L010831-107	30-MAY-01	EP-131D	AS	27	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	34	ppm	LCS	19-JUN-01		EDXRF
			FE	1.9	%	LCS	19-JUN-01		EDXRF
			PB	42	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-108	30-MAY-01	EP-131E	AS	26	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF
			CU	<20	ppm	LCS	19-JUN-01		EDXRF
			FE	1.5	%	LCS	19-JUN-01		EDXRF
			PB	42	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	29	ppm	LCS	19-JUN-01		EDXRF
L010831-109	30-MAY-01	EP-13F	AS	21	ppm	LCS	19-JUN-01		EDXRF
			CD	10	ppm	LCS	19-JUN-01		EDXRF
			CR	<80	ppm	LCS	19-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L010831

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010831-109	30-MAY-01	EP-13F	CU	32	ppm	LCS	19-JUN-01		EDXRF
			FE	1.4	%	LCS	19-JUN-01		EDXRF
			PB	38	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	<10	ppm	LCS	19-JUN-01		EDXRF
L010831-110	30-MAY-01	EP-13G	AS	31	ppm	LCS	19-JUN-01		EDXRF
			CD	<10	ppm	LCS	19-JUN-01		EDXRF
			CR	87	ppm	LCS	19-JUN-01		EDXRF
			CU	20	ppm	LCS	19-JUN-01		EDXRF
			FE	1.7	%	LCS	19-JUN-01		EDXRF
			PB	56	ppm	LCS	19-JUN-01		EDXRF
			SE	<20	ppm	LCS	19-JUN-01		EDXRF
			ZN	35	ppm	LCS	19-JUN-01		EDXRF

Approved

Reviewer

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
12472	RI Phase III

SAMPLERS: (Signature) Alfonso Munoz

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	RE
5/25/01	1145			BH9-6-9C	1 Bag										2
	1148			BH 9-6-9D											3
	1150			BH 9-6-10A											0
	1152			BH 9-6-10B											1
	1155			BH 9-6-10C											5
	1158			BH 9-6-10D											0
	1700			BH 9-6-16A											1
	1703			BH 9-6-16B1											1
	1703			BH9-6-16B2											2
	1705			BH 9-6-16C											3
5/25	1710			BH9-6-16D											0
5/26	0825			BH 9-6-17A											1
	0830			BH 9-6-17B											2
	0833			BH9-6-17C											
	0835			BH 9-6-17D	1 BAG									X	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, ~~Fed Ex~~
[signature]	6/7/01 1100		TSC Salt Lake City Ut.		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) [signature]	Date/Time 6-8-01 1030	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover let ☐ Other	

CHAIN OF CUSTODY RECORD

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

PROJ. NO. 12472 | PROJECT NAME RI Phase III

SAMPLERS: (Signature) Alfonso Muñoz

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF
5/23/01	1410			BH 9-6-11A	1BAG									
↑	1412			BH 9-6-11B										
	1415			BH 9-6-11C										
	1418			BH 9-6-11D										
	1425			BH 9-6-12A										
	1428			BH 9-6-12B										
	1430			BH 9-6-12C										
	1450			BH 9-6-13A										
	1535			BH 9-6-14A1										
	1535			BH 9-6-14A2										
	1538			BH 9-6-14B										
↓	1540			BH 9-6-14C										
5/25/01	15-42			BH 9-6-14D										
5/24/01	1515			BH 9-1-18A										
5/24/01	1520			BH 9-1-18B	1BAG									X

Relinquished (Signature)	Date/Time 6/7/01 1600	Received by: (Signature)	Lab TSC Salt Lake City Utah / P.O. # / Shipped via: Bus, Fed Other / Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time 6-8-01 1030

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

Split Samples:
[] Accepted [] Declined

Return results & electronic copy to:

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO. 12472 | PROJECT NAME: RI Phase III

SAMPLERS: (Signature) Alfonso Moreno

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	REM
5/24	1525			BH 9-1-18C	1 BAG										2
5/25	0830			BH 9-1-18D											4
	0836			BH 9-1-18E											5
	0838			BH 9-1-18F											6
	0840			BH 9-1-18G1											7
	0840			BH 9-1-18G2											7
5/25	0842			BH 9-1-18H											8
5/26	1400			BH 9-1-18I											9
5/26	1410			BH 9-1-18J											1
5/25	1130			BH 9-6-8A											0
	1132			BH 9-6-8B											1
	1135			BH 9-6-8C											2
	1140			BH 9-6-9A											0
	1142			BH 9-6-9B1											1
5/25	1142			BH 9-6-9B2	1 BAG									X	1

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC Salt Lake City Utah	P.O. #	Shipped via: Bus, Fed Ex, Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill #
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover let ☐ Other	
	6/7/01 1600		6-8-01 1020		

Hydrome[illegible]cs, inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
12472	RI Phase III

SAMPLERS: (Signature) Alfonso Martinez

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF
5/25/01	0955			BH 9-6-5A	1 BAG									X
	0958			BH 9-6-5B										
	1000			BH 9-6-5C										
	1002			BH 9-6-5D										
	1020			BH 9-6-5E1										
	1020			BH 9-6-5E2										
	1023			BH 9-6-5F										
	1048			BH 9-6-6A										
	1050			BH 9-6-6B										
	1102			BH 9-6-7A										
	1103			BH 9-6-7B										
	1105			BH 9-6-7C										
5/25/01	1107			BH 9-6-7D	1 BAG									X

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed
E. Davis	6/AG/1600		TSC, Salt Lake City Utah.		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☑ Parameter sheet w/detection limit ☐ QA/QC standard mixing instructions ☑ Cove ☐ Other	
		S Mortensen	10-8-01 1030	Split Samples: [] Accepted [] Declined	

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

CHAIN OF CUSTODY RECORD

PROJ. NO. 12472 | PROJECT NAME: RI Phase III

SAMPLERS: (Signature) Alfonso Montano

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	REM
5/26	0903			BH 9-6-18F	1BAG									X	5
5/26	0905			BH 9-6-18G											6
5/26	0908			BH 9-6-18H											7
1	0910			BH 9-6-19A											0
	0912			BH 9-6-19B											1-
	0915			BH 9-6-19C1											2
	0915			BH 9-6-19C2											2
	0918			BH 9-6-19D											3
	0950			BH 9-6-20A											0
	1000			BH 9-6-20B											1
	0930			BH 9-6-20C											5
↓	0935			BH 9-6-20D											6
5/26	0940			BH 9-6-20E										X	7

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC Salt Lake City Ut
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time

6/7/01 1600

10-8-01 1530

P.O. #

Shipped via: Bus, Fed Ex
Other
Air Bill #

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

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CHAIN OF CUSTODY RECORD

PROJ. NO. 12470.2 | PROJECT NAME: RI Phase III

SAMPLERS: (Signature) Alfonso Munoz

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF
5/26	1130			BH9-6-22A	1 BAG									
"	1132			BH9-6-22B	"									
"	1135			BH9-6-22C	"									
"	1140			BH9-6-22D	"									
"	1215			BH9-6-23A	"									
5/26	1220			BH9-6-23B	"									
5/25	1650			BH9-6-15A	"									
"	1651			BH9-6-15B1	"									
"	1651			BH9-6-15B2	"									
5/25	1652			BH9-6-15C	"									
5/26	0850			BH9-6-18A	"									
"	0852			BH9-6-18B	"									
"	0855			BH9-6-18C	"									
"	0857			BH9-6-18D	"									
5/26	0900			BH9-6-18E	1 BAG									X

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab / P.O. # / Shipped via
E. Charles	6/7/01 1600		Lab TSC Salt Lake City Utah
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) YM Lorden	Date/Time 6-8-01 1030

P.O. #

Shipped via: Bus, Red
Other
Air Bill #

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

Split Samples:
☐ Accepted ☐ Declined

Return results & electronic copy to:

Hydrometrics, Inc.

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CHAIN OF CUSTODY RECORD

PROJ. NO. 12472 | PROJECT NAME: RI PHASE III

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CON-TAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF						RE
5-30-01	18:40			EP-131H	1 bag									X						70
6-4-01	8:47			EP-132A1																0
	8:47			EP-132A2																0
	8:52			EP-132B																1
	8:56			EP-132C																2
	9:03			EP-132D																3
	9:06			EP-132E																4
	9:11			EP-132F																10
6-4-01	9:18			EP-132G																15
					1 bag									X						

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC, Salt Lake City Utah.	P.O. #	Shipped via: Bus, Fed Ex, Other, Air Bill #
[signature]	6/7/01 1600				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) [signature]	Date/Time 6-8-01 1030	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☑ Cover le ☐ Other	

CHAIN OF CUSTODY RECORD

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PROJ. NO.	PROJECT NAME
12472	RI PHASE III

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF
5-29-01	10:15			EP-130A	1 bag									X
	10:30			EP-130B										
	10:50			EP-130C										
	11:10			EP-130D										
	11:50			EP-130E										
	12:00			EP-130F										
5-29-01	12:15			EP-130G										
5-30-01	8:24			EP-131A										
	15:21			EP-131B1										
	15:21			EP-131B2										
	15:25			EP-131C										
	15:38			EP-131D										
	15:50			EP-131E										
	16:58			EP-131F										
5-30-01	17:15			EP-131G	1 bag									X

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus/Fed
	6/7/01 1600		TSC, Salt Lake City Utah.		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☑ Parameter sheet w/detection limit ☐ QA/QC standard mixing instructions ☑ Cove ☐ Other	
			6-8-01 1030	Split Samples: ☐ Accepted ☐ Declined	

Return results & electronic copy to:

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010834

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010834-001	06-JUN-01	BL21A	AS	34	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	94	ppm	LCS	22-JUN-01		EDXRF
			FE	1.4	%	LCS	22-JUN-01		EDXRF
			PB	110	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	16	ppm	LCS	22-JUN-01		EDXRF
L010834-002	06-JUN-01	BL22A	AS	22	ppm	LCS	22-JUN-01		EDXRF
			CD	<10	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	89	ppm	LCS	22-JUN-01		EDXRF
			FE	1.4	%	LCS	22-JUN-01		EDXRF
			PB	55	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	38	ppm	LCS	22-JUN-01		EDXRF
L010834-003	06-JUN-01	BL23A	AS	38	ppm	LCS	22-JUN-01		EDXRF
			CD	13	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	230	ppm	LCS	22-JUN-01		EDXRF
			FE	2.2	%	LCS	22-JUN-01		EDXRF
			PB	260	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	190	ppm	LCS	22-JUN-01		EDXRF
L010834-004	06-JUN-01	BL24A	AS	30	ppm	LCS	22-JUN-01		EDXRF
			CD	12	ppm	LCS	22-JUN-01		EDXRF
			CR	<80	ppm	LCS	22-JUN-01		EDXRF
			CU	180	ppm	LCS	22-JUN-01		EDXRF
			FE	1.5	%	LCS	22-JUN-01		EDXRF
			PB	170	ppm	LCS	22-JUN-01		EDXRF
			SE	<20	ppm	LCS	22-JUN-01		EDXRF
			ZN	51	ppm	LCS	22-JUN-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010834

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

Approved

Reviewer

Hydrometrics Inc.

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CHAIN OF CUSTODY RECORD

PROJ. NO.: 1158U2 | PROJECT NAME: Background Invest.

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	REMARKS
6/6/01	1110			BL21A	1 BAG									X	Surface
↓	1200			BL22A	↓									X	↓ ↓
↓	1245			BL23A	↓									X	↓
6/6/01	1330			BL24A	1 BAG									X	Surface

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab: TSC, Salt Lake City UTAH	P.O. #	Shipped via: Bus, Fed Ex, UPS
[signature]	6/7/01 1600				Other: _____
					Air Bill #: _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/ detection limits ☐ QA/QC standard mixing instructions ☑ Cover letter ☐ Other: _____	
		[signature]	6-8-01 1030	Split Samples:	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-005	27-JUN-01	BL33 B	CU	54	ppm	MEC	05-JUL-01		EDXRF
			FE	.57	%	MEC	05-JUL-01		EDXRF
			PB	59	ppm	MEC	05-JUL-01		EDXRF
			SE	<20	ppm	MEC	05-JUL-01		EDXRF
			ZN	<10	ppm	MEC	05-JUL-01		EDXRF
L010953-006	27-JUN-01	BL33A	AS	40	ppm	MEC	05-JUL-01		EDXRF
			CD	<10	ppm	MEC	05-JUL-01		EDXRF
			CR	<80	ppm	MEC	05-JUL-01		EDXRF
			CU	299	ppm	MEC	05-JUL-01		EDXRF
			FE	1.7	%	MEC	05-JUL-01		EDXRF
			PB	230	ppm	MEC	05-JUL-01		EDXRF
			SE	<20	ppm	MEC	05-JUL-01		EDXRF
			ZN	130	ppm	MEC	05-JUL-01		EDXRF
L010953-007	27-JUN-01	BL35A	AS	33	ppm	MEC	05-JUL-01		EDXRF
			CD	10	ppm	MEC	05-JUL-01		EDXRF
			CR	<80	ppm	MEC	05-JUL-01		EDXRF
			CU	158	ppm	MEC	05-JUL-01		EDXRF
			FE	1.5	%	MEC	05-JUL-01		EDXRF
			PB	206	ppm	MEC	05-JUL-01		EDXRF
			SE	<20	ppm	MEC	05-JUL-01		EDXRF
			ZN	74	ppm	MEC	05-JUL-01		EDXRF
L010953-008	27-JUN-01	BL34 B	AS	19	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	<20	ppm	MEC	06-JUL-01		EDXRF
			FE	.51	%	MEC	06-JUL-01		EDXRF
			PB	45	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-009	27-JUN-01	BL36 A	AS	38	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	145	ppm	MEC	06-JUL-01		EDXRF
			FE	1.6	%	MEC	06-JUL-01		EDXRF
			PB	135	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-009	27-JUN-01	BL36 A	SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	37	ppm	MEC	06-JUL-01		EDXRF
L010953-010	27-JUN-01	BL35 B	AS	29	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	89	ppm	MEC	06-JUL-01		EDXRF
			FE	1.2	%	MEC	06-JUL-01		EDXRF
			PB	101	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-011	27-JUN-01	BL32 A	AS	37	ppm	MEC	06-JUL-01		EDXRF
			CD	18	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	240	ppm	MEC	06-JUL-01		EDXRF
			FE	1.2	%	MEC	06-JUL-01		EDXRF
			PB	300	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	149	ppm	MEC	06-JUL-01		EDXRF
L010953-012	27-JUN-01	BL38 A	AS	12	ppm	MEC	06-JUL-01		EDXRF
			CD	18	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	23	ppm	MEC	06-JUL-01		EDXRF
			FE	1.2	%	MEC	06-JUL-01		EDXRF
			PB	37	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-013	27-JUN-01	BL36 B	AS	38	ppm	MEC	06-JUL-01		EDXRF
			CD	11	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	23	ppm	MEC	06-JUL-01		EDXRF
			FE	1.3	%	MEC	06-JUL-01		EDXRF
			PB	44	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-014	27-JUN-01	BL37 B	AS	11	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	<20	ppm	MEC	06-JUL-01		EDXRF
			FE	1.7	%	MEC	06-JUL-01		EDXRF
			PB	40	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-015	27-JUN-01	BL39 A	AS	62	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	668	ppm	MEC	06-JUL-01		EDXRF
			FE	2.0	%	MEC	06-JUL-01		EDXRF
			PB	414	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	344	ppm	MEC	06-JUL-01		EDXRF
L010953-016	27-JUN-01	BL37 A	AS	27	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	49	ppm	MEC	06-JUL-01		EDXRF
			FE	1.7	%	MEC	06-JUL-01		EDXRF
			PB	38	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	17	ppm	MEC	06-JUL-01		EDXRF
L010953-017	27-JUN-01	BL40 A	AS	54	ppm	MEC	06-JUL-01		EDXRF
			CD	18	ppm	MEC	06-JUL-01		EDXRF
			CR	91	ppm	MEC	06-JUL-01		EDXRF
			CU	711	ppm	MEC	06-JUL-01		EDXRF
			FE	2.2	%	MEC	06-JUL-01		EDXRF
			PB	440	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	306	ppm	MEC	06-JUL-01		EDXRF
L010953-018	27-JUN-01	BL39 B	AS	51	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-018	27-JUN-01	BL39 B	CU	101	ppm	MEC	06-JUL-01		EDXRF
			FE	1.6	%	MEC	06-JUL-01		EDXRF
			PB	95	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-019	27-JUN-01	BL40 B	AS	54	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	177	ppm	MEC	06-JUL-01		EDXRF
			FE	1.3	%	MEC	06-JUL-01		EDXRF
			PB	171	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-020	27-JUN-01	BL41 B	AS	38	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	284	ppm	MEC	06-JUL-01		EDXRF
			FE	1.1	%	MEC	06-JUL-01		EDXRF
			PB	258	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	105	ppm	MEC	06-JUL-01		EDXRF
L010953-021	27-JUN-01	BL41 A	AS	20	ppm	MEC	06-JUL-01		EDXRF
			CD	12	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	274	ppm	MEC	06-JUL-01		EDXRF
			FE	1.3	%	MEC	06-JUL-01		EDXRF
			PB	205	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	277	ppm	MEC	06-JUL-01		EDXRF
L010953-022	26-JUN-01	BL25 B	AS	64	ppm	MEC	06-JUL-01		EDXRF
			CD	14	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	354	ppm	MEC	06-JUL-01		EDXRF
			FE	.96	%	MEC	06-JUL-01		EDXRF
			PB	403	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-022	26-JUN-01	BL25 B	SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	238	ppm	MEC	06-JUL-01		EDXRF
L010953-023	26-JUN-01	BL26 B	AS	39	ppm	MEC	06-JUL-01		EDXRF
			CD	13	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	99	ppm	MEC	06-JUL-01		EDXRF
			FE	1.0	%	MEC	06-JUL-01		EDXRF
			PB	136	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	275	ppm	MEC	06-JUL-01		EDXRF
L010953-024	26-JUN-01	BL25 A	AS	56	ppm	MEC	06-JUL-01		EDXRF
			CD	18	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	381	ppm	MEC	06-JUL-01		EDXRF
			FE	1.2	%	MEC	06-JUL-01		EDXRF
			PB	349	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	229	ppm	MEC	06-JUL-01		EDXRF
L010953-025	26-JUN-01	BL26 A	AS	30	ppm	MEC	06-JUL-01		EDXRF
			CD	10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	151	ppm	MEC	06-JUL-01		EDXRF
			FE	1.0	%	MEC	06-JUL-01		EDXRF
			PB	125	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	256	ppm	MEC	06-JUL-01		EDXRF
L010953-026	26-JUN-01	BL27 A	AS	20	ppm	MEC	06-JUL-01		EDXRF
			CD	14	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	96	ppm	MEC	06-JUL-01		EDXRF
			FE	.99	%	MEC	06-JUL-01		EDXRF
			PB	95	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	85	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-027	26-JUN-01	BL29 A	AS	192	ppm	MEC	06-JUL-01		EDXRF
			CD	42	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	1400	ppm	MEC	06-JUL-01		EDXRF
			FE	1.6	%	MEC	06-JUL-01		EDXRF
			PB	1600	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	1100	ppm	MEC	06-JUL-01		EDXRF
L010953-028	26-JUN-01	BL30 B	AS	23	ppm	MEC	06-JUL-01		EDXRF
			CD	13	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	36	ppm	MEC	06-JUL-01		EDXRF
			FE	1.3	%	MEC	06-JUL-01		EDXRF
			PB	44	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-029	26-JUN-01	BL30 A	AS	145	ppm	MEC	06-JUL-01		EDXRF
			CD	24	ppm	MEC	06-JUL-01		EDXRF
			CR	85	ppm	MEC	06-JUL-01		EDXRF
			CU	1360	ppm	MEC	06-JUL-01		EDXRF
			FE	3.2	%	MEC	06-JUL-01		EDXRF
			PB	662	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	1380	ppm	MEC	06-JUL-01		EDXRF
L010953-030	26-JUN-01	BL51	AS	166	ppm	MEC	06-JUL-01		EDXRF
			CD	29	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	991	ppm	MEC	06-JUL-01		EDXRF
			FE	.78	%	MEC	06-JUL-01		EDXRF
			PB	1690	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	758	ppm	MEC	06-JUL-01		EDXRF
L010953-031	26-JUN-01	BL28 A	AS	38	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-031	26-JUN-01	BL28 A	CU	79	ppm	MEC	06-JUL-01		EDXRF
			FE	1.5	%	MEC	06-JUL-01		EDXRF
			PB	50	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-032	26-JUN-01	BL28 B	AS	61	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	70	ppm	MEC	06-JUL-01		EDXRF
			FE	1.5	%	MEC	06-JUL-01		EDXRF
			PB	65	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-033	26-JUN-01	BL27 B	AS	25	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	112	ppm	MEC	06-JUL-01		EDXRF
			FE	1.4	%	MEC	06-JUL-01		EDXRF
			PB	146	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	103	ppm	MEC	06-JUL-01		EDXRF
L010953-034	26-JUN-01	BL29 B	AS	23	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	38	ppm	MEC	06-JUL-01		EDXRF
			FE	1.2	%	MEC	06-JUL-01		EDXRF
			PB	48	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	19	ppm	MEC	06-JUL-01		EDXRF
L010953-035	28-JUN-01	BL46 A	AS	36	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	48	ppm	MEC	06-JUL-01		EDXRF
			FE	2.2	%	MEC	06-JUL-01		EDXRF
			PB	47	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-035	28-JUN-01	BL46 A	SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	62	ppm	MEC	06-JUL-01		EDXRF
L010953-036	27-JUN-01	BL44 A	AS	27	ppm	MEC	06-JUL-01		EDXRF
			CD	12	ppm	MEC	06-JUL-01		EDXRF
			CR	90	ppm	MEC	06-JUL-01		EDXRF
			CU	46	ppm	MEC	06-JUL-01		EDXRF
			FE	2.3	%	MEC	06-JUL-01		EDXRF
			PB	46	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	18	ppm	MEC	06-JUL-01		EDXRF
L010953-037	27-JUN-01	BL45 A	AS	37	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	85	ppm	MEC	06-JUL-01		EDXRF
			CU	38	ppm	MEC	06-JUL-01		EDXRF
			FE	2.6	%	MEC	06-JUL-01		EDXRF
			PB	36	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	59	ppm	MEC	06-JUL-01		EDXRF
L010953-038	27-JUN-01	BL47	AS	33	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	83	ppm	MEC	06-JUL-01		EDXRF
			CU	46	ppm	MEC	06-JUL-01		EDXRF
			FE	2.2	%	MEC	06-JUL-01		EDXRF
			PB	42	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	79	ppm	MEC	06-JUL-01		EDXRF
L010953-039	28-JUN-01	BL43 A	AS	235	ppm	MEC	06-JUL-01		EDXRF
			CD	34	ppm	MEC	06-JUL-01		EDXRF
			CR	130	ppm	MEC	06-JUL-01		EDXRF
			CU	1790	ppm	MEC	06-JUL-01		EDXRF
			FE	3.8	%	MEC	06-JUL-01		EDXRF
			PB	1180	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	1940	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-040	28-JUN-01	BL44 B	AS	40	ppm	MEC	06-JUL-01		EDXRF
			CD	11	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	56	ppm	MEC	06-JUL-01		EDXRF
			FE	1.5	%	MEC	06-JUL-01		EDXRF
			PB	73	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-041	28-JUN-01	BL50 A	AS	187	ppm	MEC	06-JUL-01		EDXRF
			CD	47	ppm	MEC	06-JUL-01		EDXRF
			CR	117	ppm	MEC	06-JUL-01		EDXRF
			CU	1940	ppm	MEC	06-JUL-01		EDXRF
			FE	3.2	%	MEC	06-JUL-01		EDXRF
			PB	1160	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	1440	ppm	MEC	06-JUL-01		EDXRF
L010953-042	28-JUN-01	BL50 B	AS	60	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	59	ppm	MEC	06-JUL-01		EDXRF
			FE	1.3	%	MEC	06-JUL-01		EDXRF
			PB	64	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-043	28-JUN-01	BL49 A	AS	62	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	449	ppm	MEC	06-JUL-01		EDXRF
			FE	2.4	%	MEC	06-JUL-01		EDXRF
			PB	245	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	254	ppm	MEC	06-JUL-01		EDXRF
L010953-044	28-JUN-01	BL49 B	AS	43	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	83	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L010953-044	28-JUN-01	BL49 B	CU	34	ppm	MEC	06-JUL-01		EDXRF
			FE	1.6	%	MEC	06-JUL-01		EDXRF
			PB	28	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	14	ppm	MEC	06-JUL-01		EDXRF
L010953-045	28-JUN-01	BL48	AS	39	ppm	MEC	06-JUL-01		EDXRF
			CD	10	ppm	MEC	06-JUL-01		EDXRF
			CR	83	ppm	MEC	06-JUL-01		EDXRF
			CU	109	ppm	MEC	06-JUL-01		EDXRF
			FE	2.0	%	MEC	06-JUL-01		EDXRF
			PB	96	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	118	ppm	MEC	06-JUL-01		EDXRF
L010953-046	27-JUN-01	BL52	AS	15	ppm	MEC	06-JUL-01		EDXRF
			CD	<10	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	<20	ppm	MEC	06-JUL-01		EDXRF
			FE	1.1	%	MEC	06-JUL-01		EDXRF
			PB	38	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	<10	ppm	MEC	06-JUL-01		EDXRF
L010953-047	28-JUN-01	BL42	AS	31	ppm	MEC	06-JUL-01		EDXRF
			CD	12	ppm	MEC	06-JUL-01		EDXRF
			CR	<80	ppm	MEC	06-JUL-01		EDXRF
			CU	71	ppm	MEC	06-JUL-01		EDXRF
			FE	2.2	%	MEC	06-JUL-01		EDXRF
			PB	79	ppm	MEC	06-JUL-01		EDXRF
			SE	<20	ppm	MEC	06-JUL-01		EDXRF
			ZN	155	ppm	MEC	06-JUL-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L010953

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

Approved

Reviewer

Hydrometrics Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
1158 YZ	ASARCO - EL PASO, TX

SAMPLERS: *(Signature)*
M. MILES

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							REMARKS
6/27	0920			BL 31 A	1 BAG									X							
	0920			BL 31 B										X							
	1030			BL 32 B										X							
	1125			BL 34 A										X							
	1100			BL 33 B										X							
	1100			BL 33 A										X							
	1140			BL 35 A										X							
	1130			BL 34 B										X							
	1400			BL 36 A										X							
	1145			BL 35 B										X							
	1025			BL 32 A										X							
				BL 38 A										X							
	1410			BL 36 B										X							
		14		BL 37 B										X							
	1540			BL 39 A										X							

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
[signature]	6/28/01 1650		TSL		Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)* [signature]	Date/Time 6.29.01 10	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME
1158 VZ	ASARCO - EL PASO, TX

SAMPLERS: *(Signature)*
M. MILES

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	REMARKS
6/27		16		BL 37 A	1 BAG									X	
	1600			BL 40 A										X	
	1545			BL 39 B										X	
	1605			BL 40 B										X	
	1625			BL 41 B										X	
	1620			BL 41 A										X	
6/26	1615			BL 25 B										X	
	1635			BL 26 B										X	
	1610			BL 25 A										X	
	1630			BL 26 A										X	
	1655			B 27 A										X	
	1710			BL 29A										X	
	1715	28		BL 30 B										X	
	1730	29		BL 30 A										X	
	1745			BL 51										X	

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	6/28/01 1600		TSC		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☑ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			6-29-01 10	Split Samples: [] Accepted [] Declined	

HFORM-1-4/95

Return results & electronic copy to:

Signature

Hydrometrics Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
1158 V2	ASARCO - EL PASO, TX

SAMPLERS: *(Signature)*
M. MILES

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	PRF						REMARKS
6/21	1705			BL 28 A	1 BAG									X						
	1705			BL 28 B										X						
	1700			BL 27 B										X						
	1710			BL 29 B																

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Erik Crowley	6/28/01 1600		TSC		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			6.29.01 10		

CHAIN OF CUSTODY RECORD

Hydrotechnic 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

PROJ. NO.	PROJECT NAME
1158 yz.	ASARCO - EL PASO, TX

SAMPLERS: *(Signature)*
M. MILES

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	X	X RF	REMARKS
6/28	1320			BL 46A	1 BAG									X		
6/27	1215			BL 44A										X		
↓	1300			BL 45A										X		
↓	1400			BL 47										X		
6/28	1150			BL 43A										X		
↓	1200			BL 44B										X		
↓	1530			BL 50A										X		
↓	1535			BL 50B										X		
↓	1520			BL 49A										X		
↓	1525			BL 49B										X		
↓	1430			BL 48										X		
6/27				BL 37B ~~BL 52~~										X		
6/28				BL 42										X		

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
[signature]	6/28/01 1600				Other
					Air Bill #
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)* [signature]	Date/Time 6.29.01 10		

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

Split Samples:
[] Accepted [] Declined _____ Signature

HEORM-1-4/95

Return results & electronic copy to:

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-001	17-JUL-01	BH12-9A	AS	2200	ppm	LCS	08-AUG-01		EDXRF
			CD	2200	ppm	LCS	08-AUG-01		EDXRF
			CR	140	ppm	LCS	08-AUG-01		EDXRF
			CU	13000	ppm	LCS	08-AUG-01		EDXRF
			FE	3.3	%	LCS	08-AUG-01		EDXRF
			PB	20000	ppm	LCS	08-AUG-01		EDXRF
			SE	110	ppm	LCS	08-AUG-01		EDXRF
			ZN	9600	ppm	LCS	08-AUG-01		EDXRF
L011074-002	17-JUL-01	BH12-9B	AS	210	ppm	LCS	08-AUG-01		EDXRF
			CD	30	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	1700	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	1400	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	1300	ppm	LCS	08-AUG-01		EDXRF
L011074-003	17-JUL-01	BH12-9C	AS	330	ppm	LCS	08-AUG-01		EDXRF
			CD	270	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	2000	ppm	LCS	08-AUG-01		EDXRF
			FE	0.87	%	LCS	08-AUG-01		EDXRF
			PB	3500	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	1700	ppm	LCS	08-AUG-01		EDXRF
L011074-004	17-JUL-01	BH12-9D	AS	16	ppm	LCS	08-AUG-01		EDXRF
			CD	20	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	130	ppm	LCS	08-AUG-01		EDXRF
			FE	0.19	%	LCS	08-AUG-01		EDXRF
			PB	170	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-005	17-JUL-01	BH12-9E	AS	34	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-005	17-JUL-01	BH12-9E	CU	160	ppm	LCS	08-AUG-01		EDXRF
			FE	0.19	%	LCS	08-AUG-01		EDXRF
			PB	180	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-006	17-JUL-01	BH12-8A	AS	25	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	100	ppm	LCS	08-AUG-01		EDXRF
			FE	1.3	%	LCS	08-AUG-01		EDXRF
			PB	130	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	65	ppm	LCS	08-AUG-01		EDXRF
L011074-007	17-JUL-01	BH12-8B	AS	44	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	210	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	150	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	79	ppm	LCS	08-AUG-01		EDXRF
L011074-008	17-JUL-01	BH12-8C1	AS	13	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	59	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	66	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-009	17-JUL-01	BH12-8C2(DUP)	AS	29	ppm	LCS	08-AUG-01		EDXRF
			CD	11	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	54	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	44	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-009	17-JUL-01	BH12-8C2(DUP)	SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-010	17-JUL-01	BH12-8D	AS	26	ppm	LCS	08-AUG-01		EDXRF
			CD	14	ppm	LCS	08-AUG-01		EDXRF
			CR	88	ppm	LCS	08-AUG-01		EDXRF
			CU	98	ppm	LCS	08-AUG-01		EDXRF
			FE	2.0	%	LCS	08-AUG-01		EDXRF
			PB	92	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	240	ppm	LCS	08-AUG-01		EDXRF
L011074-011	19-JUL-01	BH12-19A	AS	190	ppm	LCS	08-AUG-01		EDXRF
			CD	19	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	1000	ppm	LCS	08-AUG-01		EDXRF
			FE	2.2	%	LCS	08-AUG-01		EDXRF
			PB	1100	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	750	ppm	LCS	08-AUG-01		EDXRF
L011074-012	19-JUL-01	BH12-19B	AS	120	ppm	LCS	08-AUG-01		EDXRF
			CD	13	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	900	ppm	LCS	08-AUG-01		EDXRF
			FE	1.6	%	LCS	08-AUG-01		EDXRF
			PB	670	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	280	ppm	LCS	08-AUG-01		EDXRF
L011074-013	19-JUL-01	BH12-19C	AS	19	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	40	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	41	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	17	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-014	19-JUL-01	BH12-19D	AS	33	ppm	LCS	08-AUG-01		EDXRF
			CD	12	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	<20	ppm	LCS	08-AUG-01		EDXRF
			FE	1.7	%	LCS	08-AUG-01		EDXRF
			PB	32	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-015	19-JUL-01	BH12-20A	AS	27	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	58	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	59	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-016	18-JUL-01	BH12-10A	AS	36	ppm	LCS	08-AUG-01		EDXRF
			CD	24	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	140	ppm	LCS	08-AUG-01		EDXRF
			FE	0.48	%	LCS	08-AUG-01		EDXRF
			PB	190	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	55	ppm	LCS	08-AUG-01		EDXRF
L011074-017	18-JUL-01	BH12-11A1	AS	24	ppm	LCS	08-AUG-01		EDXRF
			CD	10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	45	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	87	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	38	ppm	LCS	08-AUG-01		EDXRF
L011074-018	18-JUL-01	BH12-11B	AS	44	ppm	LCS	08-AUG-01		EDXRF
			CD	16	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-018	18-JUL-01	BH12-11B	CU	52	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	64	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-019	18-JUL-01	BH12-11C	AS	25	ppm	LCS	08-AUG-01		EDXRF
			CD	12	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	46	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	43	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-020	18-JUL-01	BH12-11D	AS	34	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	100	ppm	LCS	08-AUG-01		EDXRF
			FE	0.96	%	LCS	08-AUG-01		EDXRF
			PB	80	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-021	18-JUL-01	BH12-12A	AS	31	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	82	ppm	LCS	08-AUG-01		EDXRF
			FE	1.8	%	LCS	08-AUG-01		EDXRF
			PB	47	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	180	ppm	LCS	08-AUG-01		EDXRF
L011074-022	18-JUL-01	BH12-12B	AS	22	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	37	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	41	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-022	18-JUL-01	BH12-12B	SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-023	18-JUL-01	BH12-12C	AS	22	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	59	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	59	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-024	18-JUL-01	BH12-12D	AS	23	ppm	LCS	08-AUG-01		EDXRF
			CD	12	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	<20	ppm	LCS	08-AUG-01		EDXRF
			FE	0.98	%	LCS	08-AUG-01		EDXRF
			PB	53	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-025	18-JUL-01	BH12-11A2(DUP)	AS	32	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	72	ppm	LCS	08-AUG-01		EDXRF
			FE	1.2	%	LCS	08-AUG-01		EDXRF
			PB	81	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	38	ppm	LCS	08-AUG-01		EDXRF
L011074-026	18-JUL-01	BH12-13A	AS	35	ppm	LCS	08-AUG-01		EDXRF
			CD	10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	90	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	91	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	17	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-027	18-JUL-01	BH12-13B	AS	27	ppm	LCS	08-AUG-01		EDXRF
			CD	13	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	41	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	52	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-028	18-JUL-01	BH12-13C	AS	33	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	86	ppm	LCS	08-AUG-01		EDXRF
			CU	41	ppm	LCS	08-AUG-01		EDXRF
			FE	2.3	%	LCS	08-AUG-01		EDXRF
			PB	26	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	18	ppm	LCS	08-AUG-01		EDXRF
L011074-029	18-JUL-01	BH12-13D	AS	32	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	<20	ppm	LCS	08-AUG-01		EDXRF
			FE	1.8	%	LCS	08-AUG-01		EDXRF
			PB	47	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-030	18-JUL-01	BH12-14A1	AS	120	ppm	LCS	08-AUG-01		EDXRF
			CD	26	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	530	ppm	LCS	08-AUG-01		EDXRF
			FE	1.9	%	LCS	08-AUG-01		EDXRF
			PB	670	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	350	ppm	LCS	08-AUG-01		EDXRF
L011074-031	19-JUL-01	BH11-16A	AS	28	ppm	LCS	08-AUG-01		EDXRF
			CD	15	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

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El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-031	19-JUL-01	BH11-16A	CU	150	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	260	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-032	19-JUL-01	BH11-17A	AS	25	ppm	LCS	08-AUG-01		EDXRF
			CD	13	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	60	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	60	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	27	ppm	LCS	08-AUG-01		EDXRF
L011074-033	19-JUL-01	BH11-18A1	AS	32	ppm	LCS	08-AUG-01		EDXRF
			CD	12	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	110	ppm	LCS	08-AUG-01		EDXRF
			FE	1.8	%	LCS	08-AUG-01		EDXRF
			PB	130	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	100	ppm	LCS	08-AUG-01		EDXRF
L011074-034	19-JUL-01	BH11-18A2	AS	53	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	110	ppm	LCS	08-AUG-01		EDXRF
			FE	2.1	%	LCS	08-AUG-01		EDXRF
			PB	170	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	180	ppm	LCS	08-AUG-01		EDXRF
L011074-035	19-JUL-01	BH11-19A	AS	<10	ppm	LCS	08-AUG-01		EDXRF
			CD	11	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	29	ppm	LCS	08-AUG-01		EDXRF
			FE	0.94	%	LCS	08-AUG-01		EDXRF
			PB	34	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-035	19-JUL-01	BH11-19A	SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	16	ppm	LCS	08-AUG-01		EDXRF
L011074-036	20-JUL-01	BH11-22A	AS	37	ppm	LCS	08-AUG-01		EDXRF
			CD	47	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	68	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	400	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	230	ppm	LCS	08-AUG-01		EDXRF
L011074-037	20-JUL-01	BH11-23A	AS	29	ppm	LCS	08-AUG-01		EDXRF
			CD	13	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	56	ppm	LCS	08-AUG-01		EDXRF
			FE	2.2	%	LCS	08-AUG-01		EDXRF
			PB	80	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	38	ppm	LCS	08-AUG-01		EDXRF
L011074-038	20-JUL-01	BH11-24A	AS	24	ppm	LCS	08-AUG-01		EDXRF
			CD	11	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	<20	ppm	LCS	08-AUG-01		EDXRF
			FE	1.7	%	LCS	08-AUG-01		EDXRF
			PB	43	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-039	20-JUL-01	BH11-25A	AS	22	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	24	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	26	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-040	18-JUL-01	BH12-18A1	AS	700	ppm	LCS	08-AUG-01		EDXRF
			CD	540	ppm	LCS	08-AUG-01		EDXRF
			CR	98	ppm	LCS	08-AUG-01		EDXRF
			CU	3000	ppm	LCS	08-AUG-01		EDXRF
			FE	2.5	%	LCS	08-AUG-01		EDXRF
			PB	6100	ppm	LCS	08-AUG-01		EDXRF
			SE	43	ppm	LCS	08-AUG-01		EDXRF
			ZN	2700	ppm	LCS	08-AUG-01		EDXRF
L011074-041	18-JUL-01	BH12-18A2(DUP)	AS	1300	ppm	LCS	08-AUG-01		EDXRF
			CD	1400	ppm	LCS	08-AUG-01		EDXRF
			CR	120	ppm	LCS	08-AUG-01		EDXRF
			CU	6900	ppm	LCS	08-AUG-01		EDXRF
			FE	2.6	%	LCS	08-AUG-01		EDXRF
			PB	13000	ppm	LCS	08-AUG-01		EDXRF
			SE	91	ppm	LCS	08-AUG-01		EDXRF
			ZN	5600	ppm	LCS	08-AUG-01		EDXRF
L011074-042	18-JUL-01	BH12-18B	AS	100	ppm	LCS	08-AUG-01		EDXRF
			CD	83	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	1200	ppm	LCS	08-AUG-01		EDXRF
			FE	0.91	%	LCS	08-AUG-01		EDXRF
			PB	1200	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	420	ppm	LCS	08-AUG-01		EDXRF
L011074-043	17-JUL-01	BH12-7H	AS	19	ppm	LCS	08-AUG-01		EDXRF
			CD	11	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	77	ppm	LCS	08-AUG-01		EDXRF
			FE	0.21	%	LCS	08-AUG-01		EDXRF
			PB	88	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011074-044	17-JUL-01	BH12-7I	AS	18	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011074

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011074-044	17-JUL-01	BH12-7I	CU	78	ppm	LCS	08-AUG-01		EDXRF
			FE	0.53	%	LCS	08-AUG-01		EDXRF
			PB	77	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	60	ppm	LCS	08-AUG-01		EDXRF
L011074-045	20-JUL-01	BH13-2A	AS	470	ppm	LCS	08-AUG-01		EDXRF
			CD	92	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	1600	ppm	LCS	08-AUG-01		EDXRF
			FE	1.2	%	LCS	08-AUG-01		EDXRF
			PB	5100	ppm	LCS	08-AUG-01		EDXRF
			SE	29	ppm	LCS	08-AUG-01		EDXRF
			ZN	1400	ppm	LCS	08-AUG-01		EDXRF

Approved

Reviewer

Hydrometrics Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247 v2
PROJECT NAME: Phase III Remedial Investigation
SAMPLERS: (Signature) Alfonso Muñoz

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF							Depth (ft) REMARKS
7/17/01	1635			BH12-9A	1 BAG									+							0-1
	1638			BH12-9B																	1-2
	1643			BH12-9C																	2-3
	1648			BH12-9D																	4-5
	1654			BH12-9E																	7-8
	1603			BH12-8A																	4-5
	1610			BH12-8B																	7-8
	1615			BH12-8C1																	10-11
	1615			BH12-8C2 (DUP)																	10-11
7/17/01	1620			BH12-8D																	12-13
7/19/01	5945			BH12-19A																	7-8
	0950			BH12-19B																	10-1
	0955			BH12-19C																	15-16
	1000			BH12-19D																	18-19
7/19/01	1040			BH12-20A	1 BAG									+							5-6

Relinquished (Signature)	Date/Time	Received by: (Signature)
Relinquished (Signature)	Date/Time	Received by: (Signature)
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)

Lab: TSC Salt Lake City Ut.
P.O. #:
Shipped via: Bus, (Fed Ex) UPS
Other
Air Bill #
Remarks
Date/Time: 7-25-01 0930

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

Split Samples:
☐ Accepted ☐ Declined
Signature

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247.02 | PROJECT NAME: Phase III Remedial Investigation

SAMPLERS: (Signature) Joanne Whitney

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	X XRF	Depth (ft)	REMARKS
7/19/01	0855			BH12-10A	1 Bag									X	15-16	
7/18/01	0925			BH12-11A1											4-5	
	0930			BH12-11B											7-8	
	0935			BH12-11C											10-11	
	0940			BH12-11D											12-13	
	1010			BH12-12A											10-11	
	1015			BH12-12B											12-13	
	1020			BH12-12C											15-16	
	1025			BH12-12D											17-18	
	0925			BH12-11A2 (Dup)											4-5	
	1118			BH12-13A											7-8	
	1122			BH12-13B											10-11	
	1127			BH12-13C											12-13	
	1131			BH12-13D											15-16	
7/18/01	1330			BH12-14A1	1 BAG									X	7-8	

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

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

Relinquished (Signature) | Date/Time | Received for Laboratory by: (Signature)

Lab: TSC Salt Lake City, Ut

P.O. #

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

Remarks

Date/Time: 7-26-01 0930

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

Hydrometric Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247 V2
PROJECT NAME: Phase III Remedial Investigation
SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF						Depth (ft) REMARKS
7/19/01	1200			BH11-16A	1BAG									X						15-16
	1438			BH11-17A																25-2
	1545			BH11-18A1																40-41
	1545			BH11-18A2 (Dup)																40-4
7/19/01	1709			BH11-19A																10-11
7/20/01	1155			BH11-22A																20-2
	1255			BH11-23A																12-1
	1515			BH11-24A																15-1
7/20/01	1555			BH11-25A																10-11
7/18/01	1625			BH12-18A1																10-11
	1625			BH12-18A2 (Dup)																10-11
7/18	1637			BH12-18B																12-13
7/17/01	1505			BH12-7H																12-13
7/17	1513			BH12-7I																15-1
7/20/01	1745			BH13-2A										X						15-16

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC Salt Lake City Ut.
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time 7-25-01 0930

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

Split Samples:
☐ Accepted ☐ Declined
Signature

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011062

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011062-001	17-JUL-01	BH11-15A	AS	1200	ppm	LCS	08-AUG-01		EDXRF
			CD	200	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	10000	ppm	LCS	08-AUG-01		EDXRF
			FE	3.1	%	LCS	08-AUG-01		EDXRF
			PB	7900	ppm	LCS	08-AUG-01		EDXRF
			SE	61	ppm	LCS	08-AUG-01		EDXRF
			ZN	4200	ppm	LCS	08-AUG-01		EDXRF
L011062-002	17-JUL-01	BH11-15B	AS	1300	ppm	LCS	08-AUG-01		EDXRF
			CD	440	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	15000	ppm	LCS	08-AUG-01		EDXRF
			FE	4.0	%	LCS	08-AUG-01		EDXRF
			PB	12000	ppm	LCS	08-AUG-01		EDXRF
			SE	76	ppm	LCS	08-AUG-01		EDXRF
			ZN	6800	ppm	LCS	08-AUG-01		EDXRF
L011062-003	17-JUL-01	BH11-15C	AS	570	ppm	LCS	08-AUG-01		EDXRF
			CD	140	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	3900	ppm	LCS	08-AUG-01		EDXRF
			FE	2.3	%	LCS	08-AUG-01		EDXRF
			PB	3700	ppm	LCS	08-AUG-01		EDXRF
			SE	23	ppm	LCS	08-AUG-01		EDXRF
			ZN	2200	ppm	LCS	08-AUG-01		EDXRF
L011062-004	17-JUL-01	BH11-15D	AS	910	ppm	LCS	08-AUG-01		EDXRF
			CD	280	ppm	LCS	08-AUG-01		EDXRF
			CR	87	ppm	LCS	08-AUG-01		EDXRF
			CU	5700	ppm	LCS	08-AUG-01		EDXRF
			FE	2.1	%	LCS	08-AUG-01		EDXRF
			PB	7600	ppm	LCS	08-AUG-01		EDXRF
			SE	40	ppm	LCS	08-AUG-01		EDXRF
			ZN	3900	ppm	LCS	08-AUG-01		EDXRF
L011062-005	17-JUL-01	BH12-5A	AS	2700	ppm	LCS	08-AUG-01		EDXRF
			CD	2700	ppm	LCS	08-AUG-01		EDXRF
			CR	180	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011062

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011062-005	17-JUL-01	BH12-5A	CU	13000	ppm	LCS	08-AUG-01		EDXRF
			FE	3.7	%	LCS	08-AUG-01		EDXRF
			PB	24000	ppm	LCS	08-AUG-01		EDXRF
			SE	130	ppm	LCS	08-AUG-01		EDXRF
			ZN	10000	ppm	LCS	08-AUG-01		EDXRF
L011062-006	17-JUL-01	BH12-5B	AS	2200	ppm	LCS	08-AUG-01		EDXRF
			CD	2600	ppm	LCS	08-AUG-01		EDXRF
			CR	130	ppm	LCS	08-AUG-01		EDXRF
			CU	10000	ppm	LCS	08-AUG-01		EDXRF
			FE	3.1	%	LCS	08-AUG-01		EDXRF
			PB	19000	ppm	LCS	08-AUG-01		EDXRF
			SE	120	ppm	LCS	08-AUG-01		EDXRF
			ZN	8700	ppm	LCS	08-AUG-01		EDXRF
L011062-007	17-JUL-01	BH12-5D	AS	1800	ppm	LCS	08-AUG-01		EDXRF
			CD	2200	ppm	LCS	08-AUG-01		EDXRF
			CR	160	ppm	LCS	08-AUG-01		EDXRF
			CU	8800	ppm	LCS	08-AUG-01		EDXRF
			FE	3.7	%	LCS	08-AUG-01		EDXRF
			PB	17000	ppm	LCS	08-AUG-01		EDXRF
			SE	110	ppm	LCS	08-AUG-01		EDXRF
			ZN	7600	ppm	LCS	08-AUG-01		EDXRF
L011062-008	17-JUL-01	BH12-5E	AS	1100	ppm	LCS	08-AUG-01		EDXRF
			CD	780	ppm	LCS	08-AUG-01		EDXRF
			CR	320	ppm	LCS	08-AUG-01		EDXRF
			CU	5300	ppm	LCS	08-AUG-01		EDXRF
			FE	12	%	LCS	08-AUG-01		EDXRF
			PB	9300	ppm	LCS	08-AUG-01		EDXRF
			SE	91	ppm	LCS	08-AUG-01		EDXRF
			ZN	8500	ppm	LCS	08-AUG-01		EDXRF
L011062-009	17-JUL-01	BH12-5F1	AS	23	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	73	ppm	LCS	08-AUG-01		EDXRF
			FE	1.2	%	LCS	08-AUG-01		EDXRF
			PB	78	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011062

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011062-009	17-JUL-01	BH12-5F1	SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	22	ppm	LCS	08-AUG-01		EDXRF
L011062-010	17-JUL-01	BH12-5F2	AS	21	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	66	ppm	LCS	08-AUG-01		EDXRF
			FE	1.2	%	LCS	08-AUG-01		EDXRF
			PB	63	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	10	ppm	LCS	08-AUG-01		EDXRF
L011062-011	17-JUL-01	BH12-5G	AS	29	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	45	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	68	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011062-012	17-JUL-01	BH12-5H	AS	27	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	120	ppm	LCS	08-AUG-01		EDXRF
			FE	1.3	%	LCS	08-AUG-01		EDXRF
			PB	96	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	280	ppm	LCS	08-AUG-01		EDXRF
L011062-013	17-JUL-01	BH12-5I	AS	36	ppm	LCS	08-AUG-01		EDXRF
			CD	19	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	190	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	140	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	280	ppm	LCS	08-AUG-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011062-014	17-JUL-01	BH12-6A	AS	3200	ppm	LCS	08-AUG-01		EDXRF
			CD	3200	ppm	LCS	08-AUG-01		EDXRF
			CR	210	ppm	LCS	08-AUG-01		EDXRF
			CU	16000	ppm	LCS	08-AUG-01		EDXRF
			FE	3.8	%	LCS	08-AUG-01		EDXRF
			PB	28000	ppm	LCS	08-AUG-01		EDXRF
			SE	150	ppm	LCS	08-AUG-01		EDXRF
			ZN	11000	ppm	LCS	08-AUG-01		EDXRF
L011062-015	17-JUL-01	BH12-6B	AS	730	ppm	LCS	08-AUG-01		EDXRF
			CD	450	ppm	LCS	08-AUG-01		EDXRF
			CR	440	ppm	LCS	08-AUG-01		EDXRF
			CU	3100	ppm	LCS	08-AUG-01		EDXRF
			FE	19	%	LCS	08-AUG-01		EDXRF
			PB	1100	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	11000	ppm	LCS	08-AUG-01		EDXRF
L011062-016	17-JUL-01	BH12-6C	AS	2400	ppm	LCS	08-AUG-01		EDXRF
			CD	1500	ppm	LCS	08-AUG-01		EDXRF
			CR	370	ppm	LCS	08-AUG-01		EDXRF
			CU	10000	ppm	LCS	08-AUG-01		EDXRF
			FE	12	%	LCS	08-AUG-01		EDXRF
			PB	19000	ppm	LCS	08-AUG-01		EDXRF
			SE	150	ppm	LCS	08-AUG-01		EDXRF
			ZN	12000	ppm	LCS	08-AUG-01		EDXRF
L011062-017	17-JUL-01	BH12-6E	AS	88	ppm	LCS	08-AUG-01		EDXRF
			CD	41	ppm	LCS	08-AUG-01		EDXRF
			CR	95	ppm	LCS	08-AUG-01		EDXRF
			CU	670	ppm	LCS	08-AUG-01		EDXRF
			FE	2.7	%	LCS	08-AUG-01		EDXRF
			PB	560	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	840	ppm	LCS	08-AUG-01		EDXRF
L011062-018	17-JUL-01	BH12-6F1	AS	35	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011062-018	17-JUL-01	BH12-6F1	CU	330	ppm	LCS	08-AUG-01		EDXRF
			FE	1.3	%	LCS	08-AUG-01		EDXRF
			PB	230	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	140	ppm	LCS	08-AUG-01		EDXRF
L011062-019	17-JUL-01	BH12-6F2(DUP)	AS	40	ppm	LCS	08-AUG-01		EDXRF
			CD	14	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	170	ppm	LCS	08-AUG-01		EDXRF
			FE	1.6	%	LCS	08-AUG-01		EDXRF
			PB	76	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	190	ppm	LCS	08-AUG-01		EDXRF
L011062-020	17-JUL-01	BH12-6G	AS	22	ppm	LCS	08-AUG-01		EDXRF
			CD	11	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	70	ppm	LCS	08-AUG-01		EDXRF
			FE	1.0	%	LCS	08-AUG-01		EDXRF
			PB	71	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011062-021	17-JUL-01	BH12-6H	AS	33	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	250	ppm	LCS	08-AUG-01		EDXRF
			FE	1.0	%	LCS	08-AUG-01		EDXRF
			PB	120	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	300	ppm	LCS	08-AUG-01		EDXRF
L011062-022	17-JUL-01	BH12-6I	AS	25	ppm	LCS	08-AUG-01		EDXRF
			CD	12	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	120	ppm	LCS	08-AUG-01		EDXRF
			FE	0.66	%	LCS	08-AUG-01		EDXRF
			PB	78	ppm	LCS	08-AUG-01		EDXRF

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L011062-022	17-JUL-01	BH12-6I	SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	72	ppm	LCS	08-AUG-01		EDXRF
L011062-023	17-JUL-01	BH12-7A	AS	190	ppm	LCS	08-AUG-01		EDXRF
			CD	280	ppm	LCS	08-AUG-01		EDXRF
			CR	120	ppm	LCS	08-AUG-01		EDXRF
			CU	1500	ppm	LCS	08-AUG-01		EDXRF
			FE	4.6	%	LCS	08-AUG-01		EDXRF
			PB	1100	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	3100	ppm	LCS	08-AUG-01		EDXRF
L011062-024	17-JUL-01	BH12-7B	AS	89	ppm	LCS	08-AUG-01		EDXRF
			CD	31	ppm	LCS	08-AUG-01		EDXRF
			CR	220	ppm	LCS	08-AUG-01		EDXRF
			CU	1200	ppm	LCS	08-AUG-01		EDXRF
			FE	8.4	%	LCS	08-AUG-01		EDXRF
			PB	180	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	3600	ppm	LCS	08-AUG-01		EDXRF
L011062-025	17-JUL-01	BH12-7C	AS	23	ppm	LCS	08-AUG-01		EDXRF
			CD	19	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	96	ppm	LCS	08-AUG-01		EDXRF
			FE	1.4	%	LCS	08-AUG-01		EDXRF
			PB	77	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	130	ppm	LCS	08-AUG-01		EDXRF
L011062-026	17-JUL-01	BH12-7D	AS	24	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	45	ppm	LCS	08-AUG-01		EDXRF
			FE	1.2	%	LCS	08-AUG-01		EDXRF
			PB	81	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	58	ppm	LCS	08-AUG-01		EDXRF

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L011062-027	17-JUL-01	BH12-7E1	AS	21	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	70	ppm	LCS	08-AUG-01		EDXRF
			FE	1.0	%	LCS	08-AUG-01		EDXRF
			PB	85	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	42	ppm	LCS	08-AUG-01		EDXRF
L011062-028	17-JUL-01	BH12-7E2	AS	30	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	68	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	97	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	83	ppm	LCS	08-AUG-01		EDXRF
L011062-029	17-JUL-01	BH12-7F	AS	36	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	35	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	51	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011062-030	18-JUL-01	BH12-17E	AS	63	ppm	LCS	08-AUG-01		EDXRF
			CD	25	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	360	ppm	LCS	08-AUG-01		EDXRF
			FE	1.3	%	LCS	08-AUG-01		EDXRF
			PB	480	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	240	ppm	LCS	08-AUG-01		EDXRF
L011062-031	18-JUL-01	BH12-14A2	AS	73	ppm	LCS	08-AUG-01		EDXRF
			CD	25	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF

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L011062-031	18-JUL-01	BH12-14A2	CU	580	ppm	LCS	08-AUG-01		EDXRF
			FE	1.7	%	LCS	08-AUG-01		EDXRF
			PB	780	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	370	ppm	LCS	08-AUG-01		EDXRF
L011062-032	18-JUL-01	BH12-14B	AS	34	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	190	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	110	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	370	ppm	LCS	08-AUG-01		EDXRF
L011062-033	18-JUL-01	BH12-14C	AS	44	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	190	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	150	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	94	ppm	LCS	08-AUG-01		EDXRF
L011062-034	18-JUL-01	BH12-15A	AS	15	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	180	ppm	LCS	08-AUG-01		EDXRF
			FE	0.65	%	LCS	08-AUG-01		EDXRF
			PB	91	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	170	ppm	LCS	08-AUG-01		EDXRF
L011062-035	18-JUL-01	BH12-16A1	AS	49	ppm	LCS	08-AUG-01		EDXRF
			CD	39	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	440	ppm	LCS	08-AUG-01		EDXRF
			FE	1.8	%	LCS	08-AUG-01		EDXRF
			PB	510	ppm	LCS	08-AUG-01		EDXRF

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L011062-035	18-JUL-01	BH12-16A1	SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	590	ppm	LCS	08-AUG-01		EDXRF
L011062-036	18-JUL-01	BH12-16A2(DUP)	AS	430	ppm	LCS	08-AUG-01		EDXRF
			CD	470	ppm	LCS	08-AUG-01		EDXRF
			CR	97	ppm	LCS	08-AUG-01		EDXRF
			CU	3000	ppm	LCS	08-AUG-01		EDXRF
			FE	2.2	%	LCS	08-AUG-01		EDXRF
			PB	5700	ppm	LCS	08-AUG-01		EDXRF
			SE	40	ppm	LCS	08-AUG-01		EDXRF
			ZN	3200	ppm	LCS	08-AUG-01		EDXRF
L011062-037	18-JUL-01	BH12-16B	AS	160	ppm	LCS	08-AUG-01		EDXRF
			CD	58	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	1300	ppm	LCS	08-AUG-01		EDXRF
			FE	1.8	%	LCS	08-AUG-01		EDXRF
			PB	1300	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	740	ppm	LCS	08-AUG-01		EDXRF
L011062-038	18-JUL-01	BH12-16C	AS	73	ppm	LCS	08-AUG-01		EDXRF
			CD	14	ppm	LCS	08-AUG-01		EDXRF
			CR	140	ppm	LCS	08-AUG-01		EDXRF
			CU	720	ppm	LCS	08-AUG-01		EDXRF
			FE	5.5	%	LCS	08-AUG-01		EDXRF
			PB	170	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	2300	ppm	LCS	08-AUG-01		EDXRF
L011062-039	18-JUL-01	BH12-16D	AS	250	ppm	LCS	08-AUG-01		EDXRF
			CD	180	ppm	LCS	08-AUG-01		EDXRF
			CR	100	ppm	LCS	08-AUG-01		EDXRF
			CU	1700	ppm	LCS	08-AUG-01		EDXRF
			FE	2.6	%	LCS	08-AUG-01		EDXRF
			PB	2500	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	1700	ppm	LCS	08-AUG-01		EDXRF

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L011062-040	18-JUL-01	BH12-16E	AS	140	ppm	LCS	08-AUG-01		EDXRF
			CD	100	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	1100	ppm	LCS	08-AUG-01		EDXRF
			FE	1.1	%	LCS	08-AUG-01		EDXRF
			PB	1600	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	910	ppm	LCS	08-AUG-01		EDXRF
L011062-041	18-JUL-01	BH12-17A1	AS	110	ppm	LCS	08-AUG-01		EDXRF
			CD	35	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	710	ppm	LCS	08-AUG-01		EDXRF
			FE	2.4	%	LCS	08-AUG-01		EDXRF
			PB	930	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	410	ppm	LCS	08-AUG-01		EDXRF
L011062-042	18-JUL-01	BH12-17A2	AS	70	ppm	LCS	08-AUG-01		EDXRF
			CD	18	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	540	ppm	LCS	08-AUG-01		EDXRF
			FE	1.6	%	LCS	08-AUG-01		EDXRF
			PB	690	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	320	ppm	LCS	08-AUG-01		EDXRF
L011062-043	18-JUL-01	BH12-17B	AS	74	ppm	LCS	08-AUG-01		EDXRF
			CD	21	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	410	ppm	LCS	08-AUG-01		EDXRF
			FE	1.6	%	LCS	08-AUG-01		EDXRF
			PB	530	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	260	ppm	LCS	08-AUG-01		EDXRF
L011062-044	18-JUL-01	BH12-17C	AS	29	ppm	LCS	08-AUG-01		EDXRF
			CD	<10	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF

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L011062-044	18-JUL-01	BH12-17C	CU	43	ppm	LCS	08-AUG-01		EDXRF
			FE	1.5	%	LCS	08-AUG-01		EDXRF
			PB	51	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	<10	ppm	LCS	08-AUG-01		EDXRF
L011062-045	18-JUL-01	BH12-17D	AS	68	ppm	LCS	08-AUG-01		EDXRF
			CD	24	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	360	ppm	LCS	08-AUG-01		EDXRF
			FE	1.7	%	LCS	08-AUG-01		EDXRF
			PB	460	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	270	ppm	LCS	08-AUG-01		EDXRF
L011062-046	21-JUL-01	BH13-3A	AS	22	ppm	LCS	08-AUG-01		EDXRF
			CD	35	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	<20	ppm	LCS	08-AUG-01		EDXRF
			FE	0.49	%	LCS	08-AUG-01		EDXRF
			PB	74	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	14	ppm	LCS	08-AUG-01		EDXRF
L011062-047	21-JUL-01	BH13-4A	AS	86	ppm	LCS	08-AUG-01		EDXRF
			CD	230	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	82	ppm	LCS	08-AUG-01		EDXRF
			FE	1.8	%	LCS	08-AUG-01		EDXRF
			PB	320	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	550	ppm	LCS	08-AUG-01		EDXRF
L011062-048	23-JUL-01	BH13-9A	AS	97	ppm	LCS	08-AUG-01		EDXRF
			CD	210	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	78	ppm	LCS	08-AUG-01		EDXRF
			FE	1.0	%	LCS	08-AUG-01		EDXRF
			PB	250	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011062

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011062-048	23-JUL-01	BH13-9A	SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	180	ppm	LCS	08-AUG-01		EDXRF
L011062-049	23-JUL-01	BH13-10A	AS	140	ppm	LCS	08-AUG-01		EDXRF
			CD	260	ppm	LCS	08-AUG-01		EDXRF
			CR	<80	ppm	LCS	08-AUG-01		EDXRF
			CU	<20	ppm	LCS	08-AUG-01		EDXRF
			FE	0.33	%	LCS	08-AUG-01		EDXRF
			PB	190	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	170	ppm	LCS	08-AUG-01		EDXRF
L011062-050	23-JUL-01	BH13-11A	AS	26	ppm	LCS	08-AUG-01		EDXRF
			CD	47	ppm	LCS	08-AUG-01		EDXRF
			CR	94	ppm	LCS	08-AUG-01		EDXRF
			CU	540	ppm	LCS	08-AUG-01		EDXRF
			FE	2.8	%	LCS	08-AUG-01		EDXRF
			PB	1500	ppm	LCS	08-AUG-01		EDXRF
			SE	<20	ppm	LCS	08-AUG-01		EDXRF
			ZN	1500	ppm	LCS	08-AUG-01		EDXRF
L011062-051	23-JUL-01	BH13-13A1	AS	880	ppm	LCS	08-AUG-01		EDXRF
			CD	140	ppm	LCS	08-AUG-01		EDXRF
			CR	250	ppm	LCS	08-AUG-01		EDXRF
			CU	1900	ppm	LCS	08-AUG-01		EDXRF
			FE	13	%	LCS	08-AUG-01		EDXRF
			PB	13000	ppm	LCS	08-AUG-01		EDXRF
			SE	57	ppm	LCS	08-AUG-01		EDXRF
			ZN	5600	ppm	LCS	08-AUG-01		EDXRF
L011062-052	23-JUL-01	BH13-13A2	AS	1100	ppm	LCS	08-AUG-01		EDXRF
			CD	330	ppm	LCS	08-AUG-01		EDXRF
			CR	150	ppm	LCS	08-AUG-01		EDXRF
			CU	2100	ppm	LCS	08-AUG-01		EDXRF
			FE	6.2	%	LCS	08-AUG-01		EDXRF
			PB	11000	ppm	LCS	08-AUG-01		EDXRF
			SE	58	ppm	LCS	08-AUG-01		EDXRF
			ZN	3600	ppm	LCS	08-AUG-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

RI PHASE III (Project 1247V2)

Batch No: L011062

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

Approved

Reviewer

Hydrometric Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247 V3

PROJECT NAME: Phase III Remedial Investigation

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF								depth (ft) REMARKS
7/17/01	0956			BH 11-15A	1 BAG									X								0-1
	1001			BH 11-15B																		1-2
	1007			BH 11-15C																		2-3
	1015			BH 11-15D																		3-4
	1055			BH 12-5A																		0-1
	1100			BH 12-5B																		1-2
	1110			BH 12-5D																		3-4
	1115			BH 12-5E																		4-5
	1120			BH 12-5F1																		7-8
	1120			BH 12-5F2 (Dup)																		7-8
	1124			BH 12-5G																		10-12
	1130			BH 12-5H																		12-15
	1138			BH 12-5I																		15-0
	1325			BH 12-6A																		0-1
7/17/01	1330			BH 12-6B	1 BAG									X								1-2

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC Salt Lake City Ut.
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 7-25-01 0900

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

Split Samples:

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247 v2
PROJECT NAME: Phase III Remedial Investigation
SAMPLERS: (Signature) Jeffrey Wesley

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF								REMARKS
7/17/01	1330			BH12-6C	1 BAG									X								2-3
	1335			BH12-6E																		4-5
	1350			BH12-6F1																		7-8
	1350			BH12-6F2 (Dup)																		7-8
	1354			BH12-6G																		10-11
	1401			BH12-6H																		12-13
	1406			BH12-6I																		15-16
	1435			BH12-7A																		0-1
	1440			BH12-7B																		1-2
	1445			BH12-7C																		2-3
	1450			BH12-7D																		3-4
	~~1500~~ 1455			BH12-7E1																		5-6
	~~1500~~ 1455			BH12-7E2																		5-6
7/17/01	1500			BH12-7F																		7-8
7/18/01	1555			BH12-17E	1 BAG									X								17-18

Relinquished (Signature)	Date/Time	Received by: (Signature)
Relinquished (Signature)	Date/Time	Received by: (Signature)
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)

Lab: TSC Salt Lake City Ut.
P.O. #
Shipped via: Bus, Fed Ex, UPS
Other
Air Bill #
Remarks
Date/Time
Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other

Hydrometric Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247 v2

PROJECT NAME: Phase III Remedial Investigation

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	Dept. (Ft) REMARK
7/18/01	1330			BH12-14A2 (Dup)	1 BAG									+	7-8
	1339			BH12-14B											12-13
	1343			BH12-14C											15-16
	1415			BH12-15A											12-13
	1441			BH12-16A1											4-5
	1441			BH12-16A2 (Dup)											4-5
	1446			BH12-16B											7-8
	1450			BH12-16C											10-11
	1455			BH12-16D											12-13
	1459			BH12-16E											15-16
	1530			BH12-17A1											7-8
	1530			BH12-17A2											7-8
	1540			BH12-17B											10-11
	1545			BH12-17C											12-13
7/18/01	1545			BH12-17D	1 BAG									+	15-16

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab TSC Salt LAKE City Ut.
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time 7-25-01 0900

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

Split Samples:

Signature

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1247 v2
PROJECT NAME: Phase III Remedial Investigatio...
SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	KEF	DEPTH (ft) REMARKS
7/21/01	0820			BH13-3A	1 BAG									X	20-21
7/21/01	0955			BH13-4A											22-23
7/23/01	11:30			BH13-9A											10-11
7/23/01	12:15			BH13-10A											15-16
7/23/01	1320			BH13-11A											25-26
7/23/01	1445			BH13-13A1											15-16
7/23/01	1445			BH13-13A2	1 BAG									X	15-16

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

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

Relinquished (Signature) | Date/Time | Received for Laboratory by: (Signature)

Lab: TSC Salt Lake City Ut

Remarks

Date/Time: 7-26-01 0900

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

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011188

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011188-001	13-AUG-01	BL-25-C	AS	50	ppm	LCS	24-FEB-01		EDXRF
			CD	<10	ppm	LCS	24-FEB-01		EDXRF
			CR	<80	ppm	LCS	24-FEB-01		EDXRF
			CU	130	ppm	LCS	24-FEB-01		EDXRF
			FE	1.3	%	LCS	24-FEB-01		EDXRF
			PB	140	ppm	LCS	24-FEB-01		EDXRF
			SE	<20	ppm	LCS	24-FEB-01		EDXRF
			ZN	53	ppm	LCS	24-FEB-01		EDXRF
L011188-002	13-AUG-01	BL-26-C	AS	31	ppm	LCS	24-FEB-01		EDXRF
			CD	12	ppm	LCS	24-FEB-01		EDXRF
			CR	<80	ppm	LCS	24-FEB-01		EDXRF
			CU	140	ppm	LCS	24-FEB-01		EDXRF
			FE	1.2	%	LCS	24-FEB-01		EDXRF
			PB	180	ppm	LCS	24-FEB-01		EDXRF
			SE	<20	ppm	LCS	24-FEB-01		EDXRF
			ZN	190	ppm	LCS	24-FEB-01		EDXRF
L011188-003	13-AUG-01	BL-27-C1	AS	18	ppm	LCS	24-FEB-01		EDXRF
			CD	13	ppm	LCS	24-FEB-01		EDXRF
			CR	<80	ppm	LCS	24-FEB-01		EDXRF
			CU	140	ppm	LCS	24-FEB-01		EDXRF
			FE	1.2	%	LCS	24-FEB-01		EDXRF
			PB	130	ppm	LCS	24-FEB-01		EDXRF
			SE	<20	ppm	LCS	24-FEB-01		EDXRF
			ZN	110	ppm	LCS	24-FEB-01		EDXRF
L011188-004	13-AUG-01	BL-27-C2	AS	25	ppm	LCS	24-FEB-01		EDXRF
			CD	<10	ppm	LCS	24-FEB-01		EDXRF
			CR	<80	ppm	LCS	24-FEB-01		EDXRF
			CU	150	ppm	LCS	24-FEB-01		EDXRF
			FE	1.3	%	LCS	24-FEB-01		EDXRF
			PB	140	ppm	LCS	24-FEB-01		EDXRF
			SE	<20	ppm	LCS	24-FEB-01		EDXRF
			ZN	140	ppm	LCS	24-FEB-01		EDXRF
L011188-005	13-AUG-01	BL-28-C	AS	55	ppm	LCS	24-FEB-01		EDXRF
			CD	<10	ppm	LCS	24-FEB-01		EDXRF
			CR	<80	ppm	LCS	24-FEB-01		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L011188

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L011188-005	13-AUG-01	BL-28-C	CU	80	ppm	LCS	24-FEB-01		EDXRF
			FE	1.3	%	LCS	24-FEB-01		EDXRF
			PB	77	ppm	LCS	24-FEB-01		EDXRF
			SE	<20	ppm	LCS	24-FEB-01		EDXRF
			ZN	<10	ppm	LCS	24-FEB-01		EDXRF
L011188-006	13-AUG-01	BL-29-C	AS	37	ppm	LCS	24-FEB-01		EDXRF
			CD	<10	ppm	LCS	24-FEB-01		EDXRF
			CR	<80	ppm	LCS	24-FEB-01		EDXRF
			CU	74	ppm	LCS	24-FEB-01		EDXRF
			FE	1.1	%	LCS	24-FEB-01		EDXRF
			PB	130	ppm	LCS	24-FEB-01		EDXRF
			SE	<20	ppm	LCS	24-FEB-01		EDXRF
			ZN	23	ppm	LCS	24-FEB-01		EDXRF
L011188-007	13-AUG-01	BL-30-C	AS	33	ppm	LCS	24-FEB-01		EDXRF
			CD	<10	ppm	LCS	24-FEB-01		EDXRF
			CR	<80	ppm	LCS	24-FEB-01		EDXRF
			CU	57	ppm	LCS	24-FEB-01		EDXRF
			FE	1.4	%	LCS	24-FEB-01		EDXRF
			PB	61	ppm	LCS	24-FEB-01		EDXRF
			SE	<20	ppm	LCS	24-FEB-01		EDXRF
			ZN	32	ppm	LCS	24-FEB-01		EDXRF

Approved

Reviewer

Hydrometric Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 1158-V2
PROJECT NAME: ASARCO - EL PASO BASE LINE INVESTIGATION
SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	XRF	REMARKS
8/13/01	10:00		X	BL-25-C	1 bag									X	1-2'
	10:30		X	BL-26-C	1 bag									X	1-2'
	11:10		X	BL-27-C1	1 bag									X	1-2'
	11:15		X	BL-27-C2	1 bag									X	1-2'
	11:50			BL-28-C										X	1-2'
	12:40			BL-29-C										X	1-2'
8/13/01	13:10		X	BL-30-C	1 bag									X	1-2'

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	8/14/01 16:40		TSC		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 8-15-01 1180	Enclosed: [X] Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

Split Samples: [] Accepted [] Declined _____ Signature

Return results & electronic copy to:

UFORM-1 4/95