

ASARCO

PLAINTIFF'S EXHIBIT

ASA-1498

August 11, 1995

Technical Services Center
R.A. Peterson
Director
D.E. Holt
Engineering Manager
J.B. Richardson
Environmental Sciences Manager
M.G. King
Research Manager

Ms. Peggy Munsell
EL PASO PLANT

Please find attached the analytical results for the bulk asbestos samples dated 07/29/95.

The bulk asbestos has been analyzed by visual estimation based on EPA-600/M4-82-020 (Dec. 1982) optical microscopy test method.

I can be reached at Ext. 240 if you have any questions or comments.



T.J. Jacobi
Chemist

cc: SGCothrin (w/attach.)
GRStanga "



ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

EI Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L951632

RECEIVED

AUG 2 2 1995

P. MUNSELL

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L951632-1	29-JUL-95	Ceiling Panel Sec-01	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND 15 ND ND	% % % % % %	WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-2	29-JUL-95	Ceiling Tile Sec-02	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-3	29-JUL-95	Floor Tile Sec-03	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND 5 ND ND	% % % % % %	WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-4	29-JUL-95	Table Top Sec-04	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND 20 ND ND	% % % % % %	WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-5	29-JUL-95	Floor Tile Sec-05	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-6	29-JUL-95	Spray On Ceiling Sec-06	AMOSTE ANTHOP BULK ASBES CHRYD	ND ND ND ND	% % % %	WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020

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El Paso
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L951632-6	29-JUL-95	Spray On Ceiling SEC-06	CROCID TREM/ACT	ND ND	% %	WCD WCD	08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-7	29-JUL-95	Floor Tile SEC-07	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND 20 ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-8	29-JUL-95	Floor Tile ELEC-01	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND 10 ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-9	29-JUL-95	Plaster ELEC-02	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-10	29-JUL-95	Plaster Elbow ELEC-03	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-11	29-JUL-95	Plaster Ceiling ELEC-04	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020

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L951632-12	29-JUL-95	Floor Tile E1C-05	AMOSTE ND ANTHOP ND BULK ASBES ND CHRY 30 CROCID ND TREN/ACT ND		%	WCD	08-AUG-95	EPA-600/M4-82-020		
L951632-13	29-JUL-95	Plaster Wall E1C-06	AMOSTE ND ANTHOP ND BULK ASBES ND CHRY ND CROCID ND TREN/ACT ND		%	WCD	08-AUG-95	EPA-600/M4-82-020		
L951632-14	29-JUL-95	Floor Tile	AMOSTE ND ANTHOP ND BULK ASBES ND CHRY ND CROCID ND TREN/ACT ND		%	WCD	08-AUG-95	EPA-600/M4-82-020		
L951632-15	29-JUL-95	Sprayed On Ceiling	AMOSTE ND ANTHOP ND BULK ASBES ND CHRY ND CROCID ND TREN/ACT ND		%	WCD	08-AUG-95	EPA-600/M4-82-020		
L951632-16	29-JUL-95	Ceiling Tile	AMOSTE ND ANTHOP ND BULK ASBES ND CHRY ND CROCID ND TREN/ACT ND		%	WCD	08-AUG-95	EPA-600/M4-82-020		
L951632-17	29-JUL-95	Ceiling Tile	AMOSTE ND ANTHOP ND BULK ASBES ND CHRY ND		%	WCD	08-AUG-95	EPA-600/M4-82-020		

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L951632-17	29-JUL-95	Ceiling Tile	CROCID TREM/ACT	ND ND	% %	WCD WCD	08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-18	29-JUL-95	Wall Plaster	AMOSTE ANTHOP BULK ASBES CHRYL CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-19	29-JUL-95	Floor Tile	AMOSTE ANTHOP BULK ASBES CHRYL CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-20	29-JUL-95	Pipe Insulation	AMOSTE ANTHOP BULK ASBES CHRYL CROCID TREM/ACT	ND ND ND 60 ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-21	29-JUL-95	Pipe Insulation <i>Eng-01</i>	AMOSTE ANTHOP BULK ASBES CHRYL CROCID TREM/ACT	10 ND ND ND ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-22	29-JUL-95	Wall Plaster <i>Eng-02</i>	AMOSTE ANTHOP BULK ASBES CHRYL CROCID TREM/ACT	ND ND ND ND ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020

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L951632-23	29-JUL-95	Roofing Material	AMOSTE ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRYL ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			TREM/ACT ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-24	29-JUL-95	Plaster Wall	AMOSTE ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRYL ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			TREM/ACT ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-25	29-JUL-95	Floor Tile	AMOSTE ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRYL ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			TREM/ACT ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-26	29-JUL-95	Floor Tile	AMOSTE ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRYL 30		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			TREM/ACT ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-27	29-JUL-95	Pipe Insulation	AMOSTE ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRYL 30		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			TREM/ACT ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-28	29-JUL-95	Floor Tile	AMOSTE ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		%	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRYL ND		%	WCD	08-AUG-95		EPA-600/M4-82-020

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L951632-28	29-JUL-95	Floor Tile	CROCID TREN/ACT	ND ND	% %	WCD WCD	08-AUG-95 08-AUG-95		EPA-600/H4-82-020 EPA-600/H4-82-020
L951632-29	29-JUL-95	Floor Tile	AMOSTE ANTHOP BULK ASBES CHRYL CROCID TREN/ACT	ND ND ND 20 ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/H4-82-020 EPA-600/H4-82-020 EPA-600/H4-82-020 EPA-600/H4-82-020 EPA-600/H4-82-020 EPA-600/H4-82-020

[Signature]
Approved

[Signature]
Reviewer