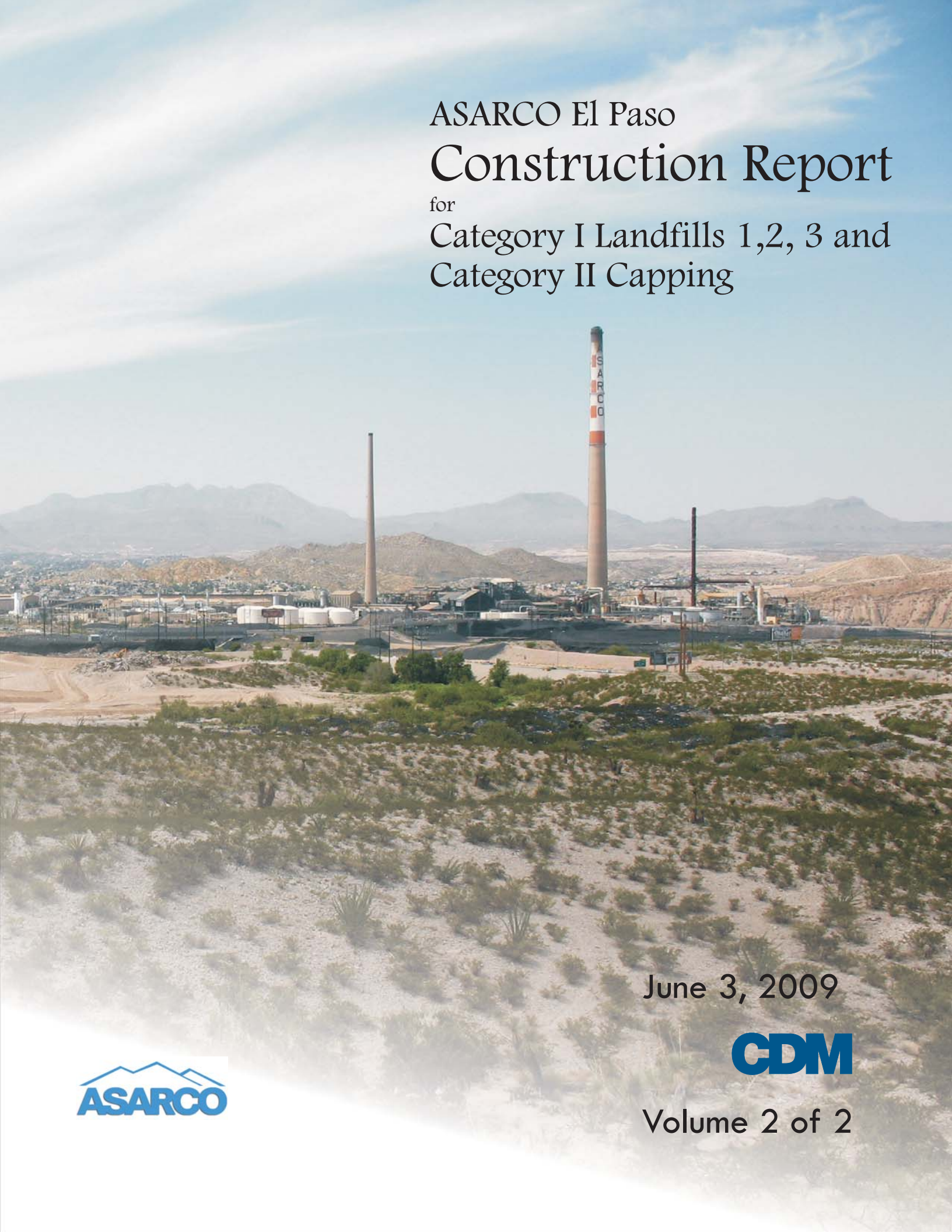
ASARCO El Paso

Construction Report

for

Category I Landfills 1,2, 3 and Category II Capping



June 3, 2009

CDM

ASARCO

Volume 2 of 2

ASARCO El Paso Construction Report
for
Category I Landfills 1, 2, 3, and Category II Capping

June 3, 2009

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Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.1 Category I Pre and Post-Excavation Sampling Results

POND 1- Preliminary

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
P1-1	4/4/2006	1430	260	197	
P1-2	4/4/2006	1435	130	106	
P1-3	4/4/2006	1440	396	330	
P1-4	4/4/2006	1445	415	340	
P1-5	4/5/2006	1250	1030	310	
P1-6	4/5/2006	1255	1080	430	
P1-7	4/5/2006	1300	1170	330	
P1-8	4/5/2006	1305	445	300	
P1-9	4/5/2006	1312	163	153	
P1-10	4/5/2006	1320	460	305	
P1-11	4/5/2006	13330	560	380	
P1-12	4/5/2006	1335	530	188	
P1-13	4/5/2006	1340	1170	720	
P1-14	4/5/2006	1350	356	390	
P1-15	4/5/2006	1355	8.03	41.9	
P1-16	4/5/2006	1400	590	400	
P1-17	4/5/2006	1405	940	475	
P1-18	4/5/2006	1415	186	159	
P1-19	4/5/2006	1420	800	495	
P1-20	4/5/2006	1430	340	172	
P1-21	4/5/2006	1435	660	404	
P1-22	4/5/2006	1440	640	350	
P1-23	4/5/2006	1445	54.7	33.1	

POND 1 - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
SS - 01	5/9/2006	1100	70.4	57.3	
SS - 02	5/9/2006	1107	144	81	
SS - 03	5/9/2006	1115	16.7	7.77	
SS - 04	5/9/2006	1120	51.7	49.2	
SS - 05	5/9/2006	1125	160	88.4	
SS - 06	5/9/2006	1133	175	70	

Summary Report

Doug Solon
ASARCO Consulting
P.O. Box 1111
El Paso, TX, 79999

Report Date: May 15, 2006

Work Order: 6051008

Project Location: El Paso,TX
Project Name:: El Paso Engineering
Project Number: 1098900004909

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
90010	SS-01	soil	2006-05-09	11:00	2006-05-09
90011	SS-02	soil	2006-05-09	11:07	2006-05-09
90012	SS-03	soil	2006-05-09	11:15	2006-05-09
90013	SS-04	soil	2006-05-09	11:20	2006-05-09
90014	SS-05	soil	2006-05-09	11:25	2006-05-09
90015	SS-06	soil	2006-05-09	11:33	2006-05-09

Sample: 90010 - SS-01

Param	Flag	Result	Units	RL
Total Arsenic		**57.3**	mg/Kg	1.00
Total Lead		**70.4**	mg/Kg	1.00

Sample: 90011 - SS-02

Param	Flag	Result	Units	RL
Total Arsenic		**81.0**	mg/Kg	1.00
Total Lead		**144**	mg/Kg	1.00

Sample: 90012 - SS-03

Param	Flag	Result	Units	RL
Total Arsenic		**7.77**	mg/Kg	1.00
Total Lead		**16.7**	mg/Kg	1.00

Sample: 90013 - SS-04

Param	Flag	Result	Units	RL
Total Arsenic		**49.2**	mg/Kg	1.00
Total Lead		**51.7**	mg/Kg	1.00

Sample: 90014 - SS-05

Param	Flag	Result	Units	RL
Total Arsenic		**88.4**	mg/Kg	1.00
Total Lead		**160**	mg/Kg	1.00

Sample: 90015 - SS-06

Param	Flag	Result	Units	RL
Total Arsenic		**70.0**	mg/Kg	1.00
Total Lead		**175**	mg/Kg	1.00

POND 5 - Preliminary

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
P5-1	3/27/2006	1040	730	62.5	
P5-2	3/27/2006	1045	2270	118	
P5-3	3/27/2006	1050	2650	174	
P5-4	3/27/2006	1055	1030	71.5	
P5-5	3/27/2006	1100	987	71.2	
P5-6	3/27/2006	1105	112	10.7	
P5-7	3/27/2006	1110	700	59.3	
P5-8	3/27/2006	1112	36.8	10.8	
P5-9	3/27/2006	1115	730	56.7	
P5-10	3/27/2006	1118	1100	93.6	
P5-11	3/27/2006	1120	566	39.7	
P5-12	3/27/2006	1123	1420	95.9	
P5-13	3/27/2006	1126	210	19.6	
P5-14	3/27/2006	1130	730	55	
P5-15	3/27/2006	1245	230	22.3	
P5-16	3/27/2006	1250	170	19	
P5-17	3/27/2006	1252	15.5	5.25	
P5-18	3/27/2006	1255	1900	140	
P5-19	3/27/2006	1258	51.9	11.8	
P5-19-B	3/27/2006	1301	198	19.2	
P5-20	3/27/2006	1305	1080	79.1	
P5-21	3/27/2006	1312	430	40	
P5-22	3/27/2006	1316	406	32.4	
P5-23	3/27/2006	1320	600	51.5	
P5-24	3/27/2006	1323	580	46.8	
P5-25	3/27/2006	1325	166	17.2	
P5-26	3/27/2006	1329	800	65.3	
P5-27	3/27/2006	1335	510	40.7	
P5-28	3/27/2006	1337	388	41.2	
P5-29	3/27/2006	1341	410	31.9	
P5-30	3/27/2006	1344	37.2	12.3	
P5-31	3/27/2006	1348	260	24.2	
P5-32	3/27/2006	1351	350	28.7	
P5-33	3/27/2006	1355	1260	77.7	
P5-34	3/27/2006	1358	47.6	10.6	
P5-35	3/27/2006	1404	1220	77.6	
P5-36	3/27/2006	1408	1790	118	
P5-37	3/27/2006	1412	410	30	
P5-38	3/27/2006	1414	1010	68	
P5-39	3/27/2006	1417	70.9	10.1	
P5-40	3/27/2006	1421	585	41.1	
P5-41	3/27/2006	1425	134	14.7	
P5-42	3/27/2006	1427	180	24.1	
P5-43	3/27/2006	1430	494	36.2	
P5-44	3/27/2006	1440	140	14.5	
P5-45	3/27/2006	14444	570	38.3	
P5-46	3/27/2006	1448	13.1	7.89	
P5-47	3/27/2006	1452	560	37.7	
P5-48	3/27/2006	1459	1600	95.5	

POND 5 - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
SS-5B-01	5/23/2006	1245	1050	87.60	
SS-5B-02	5/23/2006	1300	1330	100.00	
SS-5B-03	5/23/2006	1310	1380	98.40	
SS-5B-04	5/23/2006	1320	1190	85.60	

Summary Report

Doug Solon
ASARCO Consulting
P.O. Box 1111
El Paso, TX, 79999

Report Date: June 9, 2006

Work Order: 6052406

Project Location: El Paso,TX
Project Name:: El Paso Engineering
Project Number: 1098900004909

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
91129	SS-5B-01	soil	2006-05-23	12:45	2006-05-23
91130	SS-5B-02	soil	2006-05-23	13:00	2006-05-23
91131	SS-5B-03	soil	2006-05-23	13:10	2006-05-23
91132	SS-5B-04	soil	2006-05-23	13:20	2006-05-23

Sample: 91129 - SS-5B-01

Param	Flag	Result	Units	RL
Total Arsenic		**87.6**	mg/Kg	1.00
Total Lead		**1050**	mg/Kg	1.00

Sample: 91130 - SS-5B-02

Param	Flag	Result	Units	RL
Total Arsenic		**100**	mg/Kg	1.00
Total Lead		**1330**	mg/Kg	1.00

Sample: 91131 - SS-5B-03

Param	Flag	Result	Units	RL
Total Arsenic		**98.4**	mg/Kg	1.00
Total Lead		**1380**	mg/Kg	1.00

Sample: 91132 - SS-5B-04

Param	Flag	Result	Units	RL
Total Arsenic		**85.6**	mg/Kg	1.00
Total Lead		**1190**	mg/Kg	1.00

POND 6 - Preliminary

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
P6 - 1	7/10/2006	1310	27.7	50.7	
P6 - 2	7/10/2006	1325	539	99.2	
P6 - 3	7/10/2006	1335	30	32.3	
P6 - 4	7/10/2006	1350	240	48.1	
P6 - 5	7/10/2006	1400	84.3	32	
P6 - 6	7/10/2006	1410	1400	**272**	
P6 - 7	7/12/2006	710	184	59.2	
P6 - 8	7/12/2006	720	387	104	
P6 - 9	7/12/2006	730	34	24.5	
P6 - 10	7/12/2006	740	107	47.9	
P6 - 11	7/12/2006	755	3700	680	Clean area - resample
P6 - 12	7/12/2006	810	1080	223	
P6 - 13	7/12/2006	820	285	77.1	
P6 - 14	7/12/2006	830	470	123	
P6 - 15	7/12/2006	840	176	37.8	
P6 - 16	7/12/2006	850	35.3	31.8	
P6 - 17	7/12/2006	900	21.4	64.9	
P6 - 18	7/12/2006	910	393	131	
P6 - 19	7/12/2006	930	188	**366**	
P6 - 20	7/12/2006	940	1350	**308**	
P6 - 21	7/12/2006	950	65.4	**260**	
P6 - 22	7/12/2006	1000	3650	940	Clean area - resample
P6 - 23	7/12/2006	1010	4310	1090	Clean area - resample
P6 - 24	7/12/2006	1020	10.6	**35.8**	

POND 6 - Interim

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/kg	COMMENTS
P6 - 1-0-1"	4/9/2007	1310	428	77.8	
P6 - 1-6"	4/9/2007	1301	434	110	
P6 - 2-0-1"	4/9/2007	1305	380	92.2	
P6 - 2-6"	4/9/2007	1306	80	27.1	
P6 - 3-0-1"	4/9/2007	1315	530	74.2	
P6 - 3-6"	4/9/2007	1316	71.9	16.5	
P6 - 4-0-1"	4/9/2007	1329	1900	415	
P6 - 4-6"	4/9/2007	1330	670	160	
P6 - 5-0-1"	4/9/2007	1340	860	169	
P6 - 5-6"	4/9/2007	1341	220	65.7	
P6 - 6-0-1"	4/9/2007	1354	3190	430	
P6 - 6-6'	4/9/2007	1355	75.4	25.8	
P6 - 7-0-1"	4/9/2007	1400	775	136	
P6 - 7-6"	4/9/2007	1401	27.3	10.7	
P6 - 8-0-1"	4/9/2007	1410	11600	2150	
P6 - 8-6"	4/9/2007	1411	1200	330	
P6 - 9-0-1"	4/9/2007	1420	2080	310	
P6 - 9-6"	4/9/2007	1421	2800	305	
P6 - 10-0-1"	4/9/2007	1430	1750	250	
P6 - 10-6"	4/9/2007	1431	620	205	

Pond 6 - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
P6-3-1	1/7/2008	1245	1	20.7	
P6-3-2	1/7/2008	1250	7.81	31.1	
P6-3-3	1/7/2008	1255	188	95.7	
P6-3-4	1/7/2008	1300	72.9	43.5	
P6-3-5	1/9/2008	1400	1.56	99.4	
P6-3-6	1/9/2008	1410	520	110	

Summary Report

Doug Solon
ASARCO LLC
PO Box 1111
El Paso, TX, 79999

Report Date: January 16, 2008

Work Order: 8011417

Project Name: A405 CL940K3104401
Project Number: A405 CL940K3104401

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
147824	P6-3-1	soil	2008-01-07	12:45	2008-01-11
147825	P6-3-2	soil	2008-01-07	12:50	2008-01-11
147826	P6-3-3	soil	2008-01-07	12:55	2008-01-11
147827	P6-3-4	soil	2008-01-07	13:00	2008-01-11
147828	P6-3-5	soil	2008-01-09	14:00	2008-01-11
147829	P6-3-6	soil	2008-01-09	14:10	2008-01-11

Sample: 147824 - P6-3-1

Param	Flag	Result	Units	RL
Total Arsenic		**20.7**	mg/Kg	2.00
Total Lead		<1.00	mg/Kg	1.00

Sample: 147825 - P6-3-2

Param	Flag	Result	Units	RL
Total Arsenic		**31.1**	mg/Kg	2.00
Total Lead		**7.81**	mg/Kg	1.00

Sample: 147826 - P6-3-3

Param	Flag	Result	Units	RL
Total Arsenic		**95.7**	mg/Kg	2.00
Total Lead		**188**	mg/Kg	1.00

Sample: 147827 - P6-3-4

Param	Flag	Result	Units	RL
Total Arsenic		**43.5**	mg/Kg	2.00

continued ...

sample 147827 continued ...

Param	Flag	Result	Units	RL
Total Lead		**72.9**	mg/Kg	1.00

Sample: 147828 - P6-3-5

Param	Flag	Result	Units	RL
Total Arsenic		**99.4**	mg/Kg	2.00
Total Lead		**1.56**	mg/Kg	1.00

Sample: 147829 - P6-3-6

Param	Flag	Result	Units	RL
Total Arsenic		**110**	mg/Kg	2.00
Total Lead		**520**	mg/Kg	1.00

POND 6 Canal - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
P6C-1	10/15/2007	1000	358	78	
P6C-2	10/15/2007	1010	576	94	
P6C-3	10/15/2007	1020	380	79	
P6C-4	10/15/2007	1030	324	76	
P6C-5	10/22/2007	1430	43.5	7.54	sample wet/east of sw pipe

Summary Report

Doug Solon
ASARCO LLC
PO Box 1111
El Paso, TX, 79999

Report Date: October 26, 2007

Work Order: 7101909

Project Name: A405 CL940K3104401
Project Number: A405 CL940K3104401

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
139596	P6C-1	soil	2007-10-15	10:00	2007-10-18
139597	P6C-2	soil	2007-10-15	10:10	2007-10-18
139598	P6C-3	soil	2007-10-15	10:20	2007-10-18
139599	P6C-4	soil	2007-10-15	10:30	2007-10-18

Sample: 139596 - P6C-1

Param	Flag	Result	Units	RL
Total Arsenic		**78.3**	mg/Kg	2.00
Total Lead		**358**	mg/Kg	1.00

Sample: 139597 - P6C-2

Param	Flag	Result	Units	RL
Total Arsenic		**93.9**	mg/Kg	2.00
Total Lead		**576**	mg/Kg	1.00

Sample: 139598 - P6C-3

Param	Flag	Result	Units	RL
Total Arsenic		**79.1**	mg/Kg	2.00
Total Lead		**380**	mg/Kg	1.00

Sample: 139599 - P6C-4

Param	Flag	Result	Units	RL
Total Arsenic		**76.0**	mg/Kg	2.00
Total Lead		**324**	mg/Kg	1.00

INVESTIGATION AREA 5 - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS		
A5-1	5/5/2008	1030	6.05	<2.00			
A5-2	5/5/2008	1045	6.07	20.4			

Summary Report

Doug Solon
ASARCO LLC
P. O. Box 1111
El Paso, TX, 79999

Report Date: May 15, 2008

Work Order: 8050721

Project Name: A405 CL940K3104401
Project Number: A405 CL940K3104401

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
159110	A5-1	soil	2008-05-05	10:30	2008-05-06
159111	A5-2	soil	2008-05-05	10:45	2008-05-06

Sample: 159110 - A5-1

Param	Flag	Result	Units	RL
Total Arsenic		<2.00	mg/Kg	2.00
Total Lead		**6.05**	mg/Kg	1.00

Sample: 159111 - A5-2

Param	Flag	Result	Units	RL
Total Arsenic		**20.4**	mg/Kg	2.00
Total Lead		**6.07**	mg/Kg	1.00

INVESTIGATION AREA 11 - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
A11-1	10/24/2007	915	870	66.3	
A11-2	10/24/2007	930	325	34.5	
A11-3	10/24/2007	940	39.5	7.3	
A11-4	10/24/2007	950	700	47.9	
A11-5	10/24/2007	1000	6.68	2.03	
A11-6	10/24/2007	1005	1340	107	
A11-7	10/24/2007	1010	32.5	6.32	
A11-8	10/24/2007	1015	1040	95.9	
A11-9	10/24/2007	1025	54.1	5.87	
A11-10	10/24/2007	1030	520	38.6	
A11-11	10/24/2007	1040	83.7	12.5	
A11-12	10/24/2007	1050	316	41.2	
A11-13	10/24/2007	1055	810	51.6	
A11-14	10/24/2007	1100	306	36.2	
A11-15	10/24/2007	1110	81.4	13.7	
A11-16	10/24/2007	1115	159	19.6	

Summary Report

Doug Solon
ASARCO LLC
PO Box 1111
El Paso, TX, 79999

Report Date: November 2, 2007

Work Order: 7102919

Project Name: A405 CL940K3104401
Project Number: A405 CL940K3104401

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
140813	A11-1	soil	2007-10-24	09:15	2007-10-26
140814	A11-2	soil	2007-10-24	09:30	2007-10-26
140815	A11-3	soil	2007-10-24	09:40	2007-10-26
140816	A11-4	soil	2007-10-24	09:50	2007-10-26
140817	A11-5	soil	2007-10-24	10:00	2007-10-26
140818	A11-6	soil	2007-10-24	10:05	2007-10-26
140819	A11-7	soil	2007-10-24	10:10	2007-10-26
140820	A11-8	soil	2007-10-24	10:15	2007-10-26
140821	A11-9	soil	2007-10-24	10:25	2007-10-26
140822	A11-10	soil	2007-10-24	10:30	2007-10-26
140823	A11-11	soil	2007-10-24	10:40	2007-10-26
140824	A11-12	soil	2007-10-24	10:50	2007-10-26
140825	A11-13	soil	2007-10-24	10:55	2007-10-26
140826	A11-14	soil	2007-10-24	11:00	2007-10-26
140827	A11-15	soil	2007-10-24	11:10	2007-10-26
140828	A11-16	soil	2007-10-24	11:15	2007-10-26

Sample: 140813 - A11-1

Param	Flag	Result	Units	RL
Total Arsenic		**66.3**	mg/Kg	2.00
Total Lead		**870**	mg/Kg	1.00

Sample: 140814 - A11-2

Param	Flag	Result	Units	RL
Total Arsenic		**34.5**	mg/Kg	2.00
Total Lead		**325**	mg/Kg	1.00

Sample: 140815 - A11-3

Param	Flag	Result	Units	RL
Total Arsenic		**7.30**	mg/Kg	2.00
Total Lead		**39.5**	mg/Kg	1.00

Sample: 140816 - A11-4

Param	Flag	Result	Units	RL
Total Arsenic		**47.9**	mg/Kg	2.00
Total Lead		**700**	mg/Kg	1.00

Sample: 140817 - A11-5

Param	Flag	Result	Units	RL
Total Arsenic		**2.03**	mg/Kg	2.00
Total Lead		**6.68**	mg/Kg	1.00

Sample: 140818 - A11-6

Param	Flag	Result	Units	RL
Total Arsenic		**107**	mg/Kg	2.00
Total Lead		**1340**	mg/Kg	1.00

Sample: 140819 - A11-7

Param	Flag	Result	Units	RL
Total Arsenic		**6.32**	mg/Kg	2.00
Total Lead		**32.5**	mg/Kg	1.00

Sample: 140820 - A11-8

Param	Flag	Result	Units	RL
Total Arsenic		**95.9**	mg/Kg	2.00
Total Lead		**1040**	mg/Kg	1.00

Sample: 140821 - A11-9

Param	Flag	Result	Units	RL
Total Arsenic		**5.87**	mg/Kg	2.00
Total Lead		**54.1**	mg/Kg	1.00

Sample: 140822 - A11-10

Param	Flag	Result	Units	RL
Total Arsenic		**38.6**	mg/Kg	2.00
Total Lead		**520**	mg/Kg	1.00

Sample: 140823 - A11-11

Param	Flag	Result	Units	RL
Total Arsenic		**12.5**	mg/Kg	2.00
Total Lead		**83.7**	mg/Kg	1.00

Sample: 140824 - A11-12

Param	Flag	Result	Units	RL
Total Arsenic		**41.2**	mg/Kg	2.00
Total Lead		**316**	mg/Kg	1.00

Sample: 140825 - A11-13

Param	Flag	Result	Units	RL
Total Arsenic		**51.6**	mg/Kg	2.00
Total Lead		**810**	mg/Kg	1.00

Sample: 140826 - A11-14

Param	Flag	Result	Units	RL
Total Arsenic		**36.2**	mg/Kg	2.00
Total Lead		**306**	mg/Kg	1.00

Sample: 140827 - A11-15

Param	Flag	Result	Units	RL
Total Arsenic		**13.7**	mg/Kg	2.00
Total Lead		**81.4**	mg/Kg	1.00

Sample: 140828 - A11-16

Param	Flag	Result	Units	RL
Total Arsenic		**19.6**	mg/Kg	2.00
Total Lead		**159**	mg/Kg	1.00

INVESTIGATION AREA 12 - Preliminary

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
A12 - 1	12/20/2006	1340	**14900**	**1830**	
A12 - 2	12/20/2006	1345	507	72.6	
A12 - 3	12/20/2006	1350	840	78.9	
A12 - 4	12/20/2006	1355	707	43.6	
A12 - 5	12/20/2006	1400	480	92.8	
A12 - 6	12/20/2006	1405	**19800**	**1740**	Slag material
A12 - 7	12/20/2006	1415	**13500**	**1240**	
A12 - 8	12/20/2006	1420	1430	180	
A12 - 9	12/20/2006	1425	377	30	
A12 - 10	12/20/2006	1430	**3390**	440	
A12 - 11	12/20/2006	1435	513	113	Wet
A12 - 12	12/20/2006	1440	524	94.7	

INVESTIGATION AREA 12 - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
A12 - 1B	9/21/2007	1300	176	18.8	
A12 - 2B	9/21/2007	1310	680	74.3	
A12 - 3B	9/21/2007	1320	32.6	5.32	
A12 - 4B	9/21/2007	1330	86.1	13.1	
A12 - 5B	9/21/2007	1340	39.4	7.18	
A12 - 6B	9/21/2007	1350	286	29.6	
A12 - 7B	9/21/2007	1400	39.6	9.09	
A12 - 8B	9/21/2007	1410	55.6	14.4	

Summary Report

Doug Solon
ASARCO LLC
PO Box 1111
El Paso, TX, 79999

Report Date: November 1, 2007

Work Order: 7102914

Project Name: A405 CL940K3104401
Project Number: A405 CL940K3104401

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
140797	A12-1B	soil	2007-09-02	13:00	2007-10-26
140798	A12-2B	soil	2007-09-02	13:10	2007-10-26
140799	A12-3B	soil	2007-09-02	13:20	2007-10-26
140800	A12-4B	soil	2007-09-02	13:30	2007-10-26
140801	A12-5B	soil	2007-09-02	13:40	2007-10-26
140802	A12-6B	soil	2007-09-02	13:50	2007-10-26
140803	A12-7B	soil	2007-09-02	14:00	2007-10-26
140804	A12-8B	soil	2007-09-02	14:10	2007-10-26

Sample: 140797 - A12-1B

Param	Flag	Result	Units	RL
Total Arsenic		**18.8**	mg/Kg	2.00
Total Lead		**176**	mg/Kg	1.00

Sample: 140798 - A12-2B

Param	Flag	Result	Units	RL
Total Arsenic		**74.3**	mg/Kg	2.00
Total Lead		**680**	mg/Kg	1.00

Sample: 140799 - A12-3B

Param	Flag	Result	Units	RL
Total Arsenic		**5.32**	mg/Kg	2.00
Total Lead		**32.6**	mg/Kg	1.00

Sample: 140800 - A12-4B

Param	Flag	Result	Units	RL
Total Arsenic		**13.1**	mg/Kg	2.00
Total Lead		**86.1**	mg/Kg	1.00

Sample: 140801 - A12-5B

Param	Flag	Result	Units	RL
Total Arsenic		**7.18**	mg/Kg	2.00
Total Lead		**39.4**	mg/Kg	1.00

Sample: 140802 - A12-6B

Param	Flag	Result	Units	RL
Total Arsenic		**29.6**	mg/Kg	2.00
Total Lead		**286**	mg/Kg	1.00

Sample: 140803 - A12-7B

Param	Flag	Result	Units	RL
Total Arsenic		**9.09**	mg/Kg	2.00
Total Lead		**39.6**	mg/Kg	1.00

Sample: 140804 - A12-8B

Param	Flag	Result	Units	RL
Total Arsenic		**14.4**	mg/Kg	2.00
Total Lead		**55.6**	mg/Kg	1.00

INVESTIGATION AREA 13 - Final

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
A13 - 1	10/29/2007	1000	810	60.4	
A13 - 102 -1	10/30/2007	1400	245	62.4	

Summary Report

Doug Solon
ASARCO LLC
PO Box 1111
El Paso, TX, 79999

Report Date: November 16, 2007

Work Order: 7111410

Project Name: A405 CL940K3104401
Project Number: A405 CL940K3104401

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
142747	A13-1	soil	2007-10-29	10:00	2007-11-13
142748	A13-102-1	soil	2007-10-30	14:00	2007-11-13

Sample: 142747 - A13-1

Param	Flag	Result	Units	RL
Total Arsenic		**60.4**	mg/Kg	2.00
Total Lead		**810**	mg/Kg	1.00

Sample: 142748 - A13-102-1

Param	Flag	Result	Units	RL
Total Arsenic		**62.4**	mg/Kg	2.00
Total Lead		**245**	mg/Kg	1.00

Summary Table of Preliminary Soil Sampling Results at Investigation Area 14 - Sandblast Area

Project	Sample Site	Sample #	Date	Depth ft.	Arsenic mg/kg	Lead mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Selenium mg/kg	Zinc mg/kg
TCEQ Medium Specific Concentrations (MSC) For Commercial/Industrial (SAI-Ind) Land Use					200 mg/kg	1,000 mg/kg	1,500 mg/kg	350,000 mg/kg	74000 mg/kg	NA mg/kg	9300 mg/kg	410,000 mg/kg
Area 14	Area 14 Boring 1	Area 14-1-0-1'	10/25/07	0-1	46.2	215	11.9	5.22	**2520**	8550	<2.00	312
		Area 14-1-1-2'	10/25/07	1-2	11.2	49	1.85	3.64	328	5770	<2.00	49.7
		Area 14-1-2-3"	10/25/07	2-3	<2.00	<1.00	<0.200	5	6.64	5550	<2.00	12.6
		Area 14-1-3-4'	10/25/07	3-4	7.73	30.2	3.1	4.3	510	5450	<2.00	105
		Area 14-1-4-5'	10/25/07	4-5	19	40	1.7	6.13	350	10000	<2.00	62.4
		Area 14-1-5-6'	10/25/07	5-6	8.68	7.02	0.356	6.85	7.56	9390	<2.00	23.3
		Area 14-1-6-7'	10/25/07	6-7	<2.00	5.36	0.212	3.42	3.65	5550	<2.00	12.6
		Area 14-1-7-8'	10/25/07	7-8	<2.00	<1.00	<0.200	2.29	3.58	4370	<2.00	11
	Area 14 Boring 2	Area 14-2-0-1'	10/25/07	0-1	310	780	12.1	5.75	**12200**	43200	<2.00	273
		Area 14-2-1-2'	10/25/07	1-2	6.05	14.8	20.6	5.44	**8360**	6580	<2.00	760
		Area 14-2-2-3"	10/25/07	2-3	36.7	111	3.89	4.39	**4360**	10100	<2.00	175
		Area 14-2-3-4'	10/25/07	3-4	2.59	6.3	2.23	3.88	123	5240	<2.00	52.3
		Area 14-2-4-5'	10/25/07	4-5	40.5	103	2.74	4.07	2270	9290	<2.00	108
		Area 14-2-5-6'	10/25/07	5-6	3.28	9.12	0.294	3.79	34.7	6280	<2.00	21.2
		Area 14-2-6-7'	10/25/07	6-7	<2.00	4.25	<0.200	3.38	5.52	4650	<2.00	13
		Area 14-2-7-8'	10/25/07	7-8	<2.00	4.73	<0.200	2.77	3.08	4290	<2.00	11
	Area 14 Boring 3	Area 14-3-0-1'	10/25/07	0-1	56.5	152	84.3	5.08	582	7280	<2.00	2350
		Area 14-3-1-2'	10/25/07	1-2	<2.00	4.01	0.336	2.75	5.48	4760	<2.00	16.7
		Area 14-3-2-3"	10/25/07	2-3	13.4	47.3	28.3	3.63	141	5730	<2.00	220
		Area 14-3-3-4'	10/25/07	3-4	<2.00	<1.00	<0.200	3.21	2.71	4340	<2.00	11.6
		Area 14-3-4-5'	10/25/07	4-5	<2.00	5.27	0.251	5.43	3.99	5680	<2.00	15.2
		Area 14-3-5-6'	10/25/07	5-6	<2.00	<1.00	0.213	3.29	3.67	5170	<2.00	14.4
	Area 14 Boring 4	Area 14-4-0-1'	10/25/07	0-1	590	**2240**	73.3	13.4	**10100**	21000	2.86	2290
		Area 14-4-1-2'	10/25/07	1-2	12.5	29.7	48.8	4.61	204	7990	<2.00	725
		Area 14-4-2-3"	10/25/07	2-3	104	360	24.2	5.44	1530	9470	<2.00	660
		Area 14-4-3-4'	10/25/07	3-4	8.08	7.34	5.17	3.86	33.3	6290	<2.00	263
		Area 14-4-4-5'	10/25/07	4-5	14.4	4.33	17.8	4.53	35.2	5650	<2.00	475
		Area 14-4-5-6'	10/25/07	5-6	10.3	**A**	19.8	3.49	42	6750	<2.00	364
		Area 14-4-6-7'	10/25/07	6-7	<2.00	10.2	0.907	6.75	6	5920	<2.00	314
		Area 14-4-7-8'	10/25/07	7-8	<2.00	<1.00	0.231	4.08	3.6	5170	<2.00	243

Note:
All concentrations in milligrams per kilogram (mg/kg) or Parts Per Million (ppm

Final Soil Sampling Results at Investigation Area 14 - Sandblast Area

Sample ID	DATE	TIME	Lab - Pb mg/Kg	Lab - As mg/Kg	COMMENTS
A14B-01	1/8/2008	945	30.2	43.60	
A14B-02	1/8/2008	1000	14.8	36.70	
A14B-03	1/8/2008	1010	47.3	56.50	
A14B-04	1/8/2008	1020	29.7	46.20	

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.2 40 mil Liner Factory Certifications, Landfill Cells 1 and 2

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA
888-765-9359 972-337-7269 Fax 972-337-7269

CERTIFICATION DOCUMENTS

To:	American Environmental Group 3600 Brecksville Road Suite 100 Richfield, OH 44286	**Date:**	5/19/2006
		Poly-Flex Proj # :	260019
		Customer PO:	306048
		Project Name:	Asarco
Attn:	Tom Sparks	**Order #:**	761712
Email:	tsparks@aegl.net		

Number of pages including cover: 5

Departure Date: 5/19/2006 **Trip No:** 255015
Destination: El Paso, TX
Carrier:

Additional Notes:

Distribution of Documents:

Shipment Inspection Sheet:	1
Roll Certification:	1
Resin Certification:	2
Other:	

Attached please find documents for the above referenced shipment. Please let us know if you have any questions.

Sincerely,

Russell Searcey

Russell Searcey
1-888-765-9359 ext 7269

CERTIFICATION SHEET

DATE: May 22, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 761712

TRIP NO: 255015

CERTIFIED BY:

TEST DESCRIPTION			THICKNESS	CARBON BLACK	TEAR	PUNCTURE	TENSILE @ BREAK	ELONG @ BREAK	CAR. BLK. DISPERSION	DENSITY	OXIDATIVE INDUCTION TIME	OVEN AGING	UV RESISTANCE
ASTM METHOD			D5199	D1603	D1004	D4833	D6693	D6693	D5596	D1505	D3895	D3895	D5885
(modifications)			min/avg							Max.			
UNITS			mils	%	lb	lb	ppi	%	Cat 1 or 2	gm/cc	min.	%	%
SPECIFICATION			36/40	2.0-3.0	23	55	160	800		0.939	100	35	35
ROLL NUMBER		BLEND											
P9-4-06	24-75	8160091	37/ 41	2.4	29	89	193	873	Cat 1	0.936	119	45	60
P9-4-06	28-75	8160091	36/ 40	2.5	27	91	187	978	Cat 1	0.936	119	45	60
P9-4-06	32-75	8160091	37/ 40	2.5	29	92	192	865	Cat 1	0.936	119	45	60
P0-4-04	204-75	8141010	36/ 40	2.6	28	86	208	982	Cat 1	0.935	140	45	60
P0-4-04	206-75	8141010	36/ 41	2.6	28	86	208	982	Cat 1	0.935	140	45	60
P0-4-04	208-75	8141010	36/ 41	2.3	24	82	203	1146	Cat 1	0.936	140	45	60
P0-4-04	211-75	8141010	37/ 40	2.5	26	87	193	942	Cat 1	0.936	140	45	60
P0-4-04	220-75	8141010	37/ 41	2.3	25	82	174	1039	Cat 1	0.936	140	45	60
P0-4-04	222-75	8141010	37/ 40	2.3	26	81	169	887	Cat 1	0.936	140	45	60
P0-4-04	225-75	8141010	38/ 41	2.3	23	80	199	1200	Cat 1	0.935	140	45	60
P0-4-04	234-75	8141010	37/ 41	2.5	27	90	205	958	Cat 1	0.934	140	45	60
P0-4-04	235-75	8141010	38/ 40	2.5	27	90	205	958	Cat 1	0.934	140	45	60

Poly-Flex

Material Shipment Roll List

Tractor # _____ Trailer # _____ Date: 19-May-06 TRIP 255015

Drop #	1	Drop #		Drop #		Drop #	
Poly-Flex #	260019(761712)	Poly-Flex #		Poly-Flex #		Poly-Flex #	
Customer:	Asarco El Paso	Customer:		Customer:		Customer:	
Destination:	El Paso, TX	Destination:		Destination:		Destination:	
Carrier:	**Trinity**	Carrier:		Carrier:		Carrier:	

	Blend	Roll Number	Weight	Roll Description
1	8141010	P0-4-04- 0204- 75	3,448	23' X 750' X .040LL
2	8141010	P0-4-04- 0206- 75	3,456	23' X 750' X .040LL
3	8141010	P0-4-04- 0208- 75	3,458	23' X 750' X .040LL
4	8141010	P0-4-04- 0211- 75	3,452	23' X 750' X .040LL
5	8141010	P0-4-04- 0220- 75	3,470	23' X 750' X .040LL
6	8141010	P0-4-04- 0222- 75	3,430	23' X 750' X .040LL
7	8141010	P0-4-04- 0225- 75	3,456	23' X 750' X .040LL
8	8141010	P0-4-04- 0234- 75	3,456	23' X 750' X .040LL
9	8141010	P0-4-04- 0235- 75	3,448	23' X 750' X .040LL
10	8160091	P9-4-06- 0024- 75	3,454	23' X 750' X .040LL
11	8160091	P9-4-06- 0028- 75	3,437	23' X 750' X .040LL
12	8160091	P9-4-06- 0032- 75	3,429	23' X 750' X .040LL
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28			**41,394**	
29				

I certify that all loading requirements and roll conditions were inspected and approved.

C.E.M.
Truck Loader

CoA Date: 08/02/2004

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W. MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Dee Averitte
Fax:

CPC Delivery #: 86683979
PO #: 180133
Weight: 183500 LB
Ship Date: 08/01/2004
Package: BULK
Mode: Hopper Car
Car #: GOCX058821
Seal No: 141112

Product:
MARLEX POLYETHYLENE K203 BULK

Lot Number: 8141010

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.150	g/10mi
HLMI Flow Rate	ASTM D1238	14.60	g/10mi
Density	ASTM D1505	0.9230	g/cm3
Production Date		7/30/04	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Jo-Ann Doe at 832-813-4798

CoA Date: 01/30/2006

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W. MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Averitte
Fax:

CPC Delivery #: 87065752
PO #: 224792
Weight: 193800 LB
Ship Date: 01/27/2006
Package: BULK
Mode: Hopper Car
Car #: CHVX898063
Seal No: 180745

Product:
MARLEX POLYETHYLENE K203 BULK

Lot Number: 8160091

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.110	g/10mi
HLMI Flow Rate	ASTM D1238	13.10	g/10mi
Density	ASTM D1505	0.9240	g/cm3
Production Date		01/22/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.3 60 mil Liner Factory Certifications, Landfill Cells 1 and 2

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA
888-765-9359 972-337-7269 Fax 972-337-7269

CERTIFICATION DOCUMENTS

To: American Environmental Group
3600 Brecksville Road
Suite 100
Richfield, OH 44286
Attn: Tom Sparks
Email: tsparks@aegl.net
Number of pages including cover: 5

Date: 5/17/2006
Poly-Flex Proj # : 260019
Customer PO: 306048
Project Name: ASARCO
Order #: 761711

Departure Date: 5/16/2006
Destination: El Paso, TX
Carrier:

Trip No: 254143

Additional Notes:

Distribution of Documents:

Shipment Inspection Sheet: 1
Roll Certification: 1
Resin Certification: 2
Other:

Attached please find documents for the above referenced shipment. Please let us know if you have any questions.

Sincerely,

Russell Searcy

Russell Searcy
1-888-765-9359 ext 7269

CERTIFICATION SHEET

DATE: May 17, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019
ORDER NO: 761711
TRIP NO: 254143
CERTIFIED BY:

TEST DESCRIPTION			THICKNESS	CARBON BLACK	TEAR	PUNCTURE	TENSILE @ YIELD	ELONG @ YIELD	TENSILE @ BREAK	ELONG @ BREAK	CAR. BLK. DISPERSION	DENSITY	NCTL	OXIDATIVE INDUCTION TIME	ASPERITY HEIGHT	OVEN AGING	UV RESISTANCE
ASTM METHOD			D5994	D1603	D1004	D4833	D6693	D6693	D6693	D6693	D5596	D1505	D5397	D3895	GM 12	D3895	D5885
(modifications)			min/avg										App.				
UNITS			mils	%	lb	lb	ppi	%	ppi	%		g/cc	hrs	min.	MILS	%	%
SPECIFICATION			51/57	2.0-3.0	42	90	126	12	90	100	Cat 1or2	0.940	300	100	10	55	50
ROLL NUMBER		BLEND															
GT-6-04	96-5	8230900	54/ 65	2.1	50	151	161	15	185	553	Cat 1	0.947	Pass	160	22	58	70
GT-6-06	1239-5	8260399	60/ 64	2.4	52	146	163	15	173	527	Cat 1	0.947	Pass	160	28	58	70
GT-6-06	1240-5	8260399	58/ 65	2.4	52	146	163	15	173	527	Cat 1	0.947	Pass	160	28	58	70
GT-6-06	1241-5	8260399	60/ 65	2.4	52	146	163	15	173	527	Cat 1	0.947	Pass	160	28	58	70
GT-6-06	1242-5	8260399	61/ 65	2.3	51	151	160	15	161	502	Cat 1	0.947	Pass	160	24	58	70
GT-6-06	1243-5	8260399	60/ 66	2.3	51	151	160	15	161	502	Cat 1	0.947	Pass	160	24	58	70
GT-6-06	1244-5	8260399	56/ 65	2.3	51	151	160	15	161	502	Cat 1	0.947	Pass	160	24	58	70
GT-6-06	1245-5	8260399	57/ 65	2.4	49	147	153	16	171	543	Cat 1	0.947	Pass	160	24	58	70
GT-6-06	1246-5	8260399	57/ 65	2.4	49	147	153	16	171	543	Cat 1	0.947	Pass	160	24	58	70
GT-6-06	1247-5	8260399	54/ 65	2.4	49	147	153	16	171	543	Cat 1	0.947	Pass	160	24	58	70
GT-6-06	1248-5	8260399	58/ 64	2.3	50	145	152	17	160	453	Cat 1	0.947	Pass	160	24	58	70
GT-6-06	1249-5	8260399	58/ 65	2.3	50	145	152	17	160	453	Cat 1	0.947	Pass	160	24	58	70

Poly-Flex

Material Shipment Roll List

Tractor # _____ Trailer # _____ Date: 16-May-06 TRIP 254143

Drop #	1	Drop #		Drop #		Drop #	
Poly-Flex #	260019(761711)	Poly-Flex #		Poly-Flex #		Poly-Flex #	
Customer:	Asarco El Paso	Customer:		Customer:		Customer:	
Destination:	El Paso, TX	Destination:		Destination:		Destination:	
Carrier:	**P/A**	Carrier:		Carrier:		Carrier:	

	Blend	Roll Number	Weight	Roll Description
1	8230900	GT-6-04- 0096- 5	3,680	23' X 500' X .060HDT
2	8260399	GT-6-06- 1239- 5	3,632	23' X 500' X .060HDT
3	8260399	GT-6-06- 1240- 5	3,667	23' X 500' X .060HDT
4	8260399	GT-6-06- 1241- 5	3,722	23' X 500' X .060HDT
5	8260399	GT-6-06- 1242- 5	3,702	23' X 500' X .060HDT
6	8260399	GT-6-06- 1243- 5	3,747	23' X 500' X .060HDT
7	8260399	GT-6-06- 1244- 5	3,692	23' X 500' X .060HDT
8	8260399	GT-6-06- 1245- 5	3,687	23' X 500' X .060HDT
9	8260399	GT-6-06- 1246- 5	3,682	23' X 500' X .060HDT
10	8260399	GT-6-06- 1247- 5	3,687	23' X 500' X .060HDT
11	8260399	GT-6-06- 1248- 5	3,652	23' X 500' X .060HDT
12	8260399	GT-6-06- 1249- 5	3,712	23' X 500' X .060HDT
13	GWR-HD5	14 Cases	420	5MM Geo - Welding Rod - HD
14	GWR-HD4	13 Cases	390	4MM Geo - Welding Rod - HD
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27			**45,072**	
28				

I certify that all loading requirements and roll conditions were inspected and approved.

C.E.M.
Truck Loader

CoA Date: 03/22/2006

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W. MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Averitte
Fax: 1-972-337-7407

CPC Delivery #: 87101152
PO #: 227191
Weight: 182500 LB
Ship Date: 03/17/2006
Package: BULK
Mode: Hopper Car
Car #: GOCX058463
Seal No: 188848

Product:
MARLEX POLYETHYLENE K306 BULK

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 Hours
(not tested on each lot)

Lot Number: 8260399

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.60	g/10ml
Density	ASTM D1505	0.9370	g/cm3
Production Date		03/13/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

CoA Date: 08/12/2003

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W. MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Dee Averitte
Fax: 1-972-337-7407

CPC Delivery #: 86431546
PO #: 84216
Weight: 180600 LB
Ship Date: 08/12/2003
Package: BULK
Mode: Hopper Car
Car #: PSPX006764

Product:
MARLEX POLYETHYLENE K306 BULK

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 Hours
(not tested on each lot)

Lot Number: 8230900

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.080	g/10mi
HLMI Flow Rate	ASTM D1238	11.70	g/10mi
Density	ASTM D1505	0.9380	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. **However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.**

Paul S. Newbold
Sr. Certification Systems Specialist

For CoA questions contact Peter Scheirman at 713-289-4799

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA
888-765-9359 972-337-7269 Fax 972-337-7269

CERTIFICATION DOCUMENTS

To: American Environmental Group
3600 Brecksville Road
Suite 100
Richfield, OH 44286
Attn: Tom Sparks
Email: tsparks@aegl.net
Number of pages including cover: 9

Date: 5/18/2006
Poly-Flex Proj # : 260019
Customer PO: 306048
Project Name: ASARCO
Order #: 761713
765652

Departure Date: 5/17/2006
Destination: El Paso, TX
Carrier:

Trip No: 254144

Additional Notes:

Distribution of Documents:

Shipment Inspection Sheet:	1
Roll Certification:	4
Resin Certification:	3
Other:	

Attached please find documents for the above referenced shipment. Please let us know if you have any questions.

Sincerely,

Russell Searcey

Russell Searcey
1-888-765-9359 ext 7269

CERTIFICATION SHEET

DATE: May 18, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019
ORDER NO: 761713
TRIP NO: 254144
CERTIFIED BY:

TEST DESCRIPTION			THICKNESS	CARBON BLACK	TEAR	PUNCTURE	TENSILE @ YIELD	ELONG @ YIELD	TENSILE @ BREAK	ELONG @ BREAK	CAR. BLK. DISPERSION	DENSITY	NCTL	OXIDATIVE INDUCTION TIME	ASPERITY HEIGHT	OVEN AGING	UV RESISTANCE
ASTM METHOD			D5994	D1603	D1004	D4833	D6693	D6693	D6693	D6693	D5596	D1505	D5397	D3895	GM 12	D3895	D5885
(modifications)			min/avg										App.				
UNITS			mils	%	lb	lb	ppi	%	ppi	%		g/cc	hrs	min.	MILS	%	%
SPECIFICATION			51/57	2.0-3.0	42	90	126	12	90	100	Cat 1or2	0.940	300	100	10	55	50
ROLL NUMBER		BLEND															
GT-6-06	1-5	8251216	54/ 66	2.5	49	137	145	17	147	461	Cat 1	0.947	Pass	160	27	58	70
GT-6-06	168-5	8251455	54/ 67	2.6	49	143	148	15	144	468	Cat 1	0.947	Pass	160	26	58	70
GT-6-06	174-5	8251455	54/ 65	2.4	50	146	155	16	150	519	Cat 1	0.947	Pass	160	27	58	70
GT-6-06	179-5	8251455	54/ 66	2.5	49	138	146	16	147	477	Cat 1	0.947	Pass	160	25	58	70
GT-6-06	180-5	8251455	54/ 65	2.6	50	138	144	16	174	557	Cat 1	0.947	Pass	160	25	58	70
GR-6-04	550-5	8231483	56/ 66	2.6	50	145	156	16	174	517	Cat 1	0.947	Pass	160	25	58	70

CoA Date: 01/05/2004

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W. MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Dee Averitte
Fax: 1-972-337-7407

CPC Delivery #: 86532376
PO #: 165425
Weight: 185500 LB
Ship Date: 01/05/2004
Package: BULK
Mode: Hopper Car
Car #: PSPX005774

Product:
MARLEX POLYETHYLENE K306 BULK

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 Hours
(not tested on each lot)

Lot Number: 8231483

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.100	g/10mi
HLMI Flow Rate	ASTM D1238	11.50	g/10mi
Density	ASTM D1505	0.9360	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. **However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.**

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Peter Scheirman at 713-289-4799

CoA Date: 10/18/2005

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W. MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Averitte
Fax:

CPC Delivery #: 86997636
PO #: 214542
Weight: 179300 LB
Ship Date: 10/17/2005
Package: BULK
Mode: Hopper Car
Car #: CHVX896845
Seal No: 168183

Product:
MARLEX POLYETHYLENE K306 BULK

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 Hours
(not tested on each lot)

Lot Number: 8251216

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.40	g/10mi
Density	ASTM D1505	0.9370	g/cm3
Production Date		09/13/2005	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

CoA Date: 12/22/2005

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W. MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Averitte
Fax:

CPC Delivery #: 87039255
PO #: 220822
Weight: 192200 LB
Ship Date: 12/22/2005
Package: BULK
Mode: Hopper Car
Car #: CHVX894053
Seal No: 175704

Product:
MARLEX POLYETHYLENE K306 BULK

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 Hours
(not tested on each lot)

Lot Number: 8251455

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.90	g/10mi
Density	ASTM D1505	0.9370	g/cm3
Production Date		11/02/2005	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

CERTIFICATION SHEET

DATE: May 18, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 765652

TRIP NO: 254144

CERTIFIED BY:

TEST DESCRIPTION					*TRANSMISSIVITY(MD)	PLY ADHESION	
ASTM METHOD					D4716	D7005	
(modifications)						TOP	BOTTOM
UNITS					$x10^{-3}\ m^2/s$	lb/in	lb/in
SPECIFICATION					0.2		1.0
COMPOSITE ROLL NUMBER		GEO-NET ROLL NUMBER		GEOTEXTILE TOP	GEOTEXTILE BOTTOM		
C1-8-2-06	151-250	GNC-200-05	2892	0	1313179	1.38	1.6
C1-8-2-06	152-250	GNC-200-05	2892	0	1313179		
C1-8-2-06	154-250	GNC-200-05	2894	0	1313186		
C1-8-2-06	156-250	GNC-200-05	2895	0	1313193		
C1-8-2-06	159-250	GNC-200-06	445	0	1313189		
C1-8-2-06	161-250	GNC-200-06	427	0	1313177	0.97	4.0
C1-8-2-06	162-250	GNC-200-06	446	0	1313177		
C1-8-2-06	164-250	GNC-200-06	435	0	1313174		
C1-8-2-06	165-250	GNC-200-06	436	0	1313194		
C1-8-2-06	168-250	GNC-200-05	2900	0	1313175		

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 18, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 765652

TRIP NO: 254144

CERTIFIED BY:

TEST DESCRIPTION	THICKNESS	CARBON BLACK	PEAK TENSILE STRENGTH (MD)	*TRANSMISSIVITY(MD)	DENSITY
ASTM METHOD	D5199	D1603	D5035	D4716	D1505
(modifications)	avg	min			
UNITS	mils	%	lb/in	$x10^{-3}$ sq. m / s	g/cc
SPECIFICATION	200	1.5 - 3.0	45	1	0.940
ROLL NUMBER					
GNC-200-06 427-520	200	2.3	61	2.22	0.953
GNC-200-06 435-520	200	2.4	54	2.10	0.954
GNC-200-06 436-520	200	2.4	54		0.954
GNC-200-06 445-520	200	2.7	59	2.36	0.954
GNC-200-06 446-520	200	2.7	59		0.954
GNC-200-05 2892-520	200	2.5	52	1.93	0.947
GNC-200-05 2894-520	200	2.5	52		0.947
GNC-200-05 2895-520	200	2.5	52		0.947
GNC-200-05 2900-520	200	2.5	62	2.26	0.952

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 18, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 765652

TRIP NO: 254144

CERTIFIED BY:

TEST DESCRIPTION		Product	Unit Weight	Grab Tensile	Puncture	AOS	UV Stability
ASTM METHOD			D5261	D4632	D4833	D4751	D4355
(modifications)							
UNITS			oz/yd^2	lb	lb	sieve	%
SPECIFICATION			8	200	120	80	70
Textile Roll Number							
MF08	1313174	GTM-08-0600	8.88	245	161	140	80
MF08	1313175	GTM-08-0600	8.88	245	161	140	80
MF08	1313177	GTM-08-0600	8.88	245	161	140	80
MF08	1313179	GTM-08-0600	8.88	245	161	140	80
MF08	1313186	GTM-08-0600	8.82	261	155	140	80
MF08	1313189	GTM-08-0600	8.82	261	155	140	80
MF08	1313193	GTM-08-0600	9.16	262	154	140	80
MF08	1313194	GTM-08-0600	9.16	262	154	140	80

Poly-Flex

Material Shipment Roll List

Tractor # _____ Trailer # _____ Date: 17-May-06 TRIP 254144

Drop #	1	Drop #	1	Drop #		Drop #	
Poly-Flex #	260019(761713)	Poly-Flex #	260019(765652)	Poly-Flex #		Poly-Flex #	
Customer:	Asarco El Paso	Customer:	Asarco El Paso	Customer:		Customer:	
Destination:	El Paso, TX	Destination:	El Paso, TX	Destination:		Destination:	
Carrier:	**Addison**	Carrier:	Addison	Carrier:		Carrier:	

	Blend	Roll Number	Weight	Roll Description
1	8231483	GR-6-04- 0550- 5	3,736	23' X 500' X .060HDT
2	8251216	GT-6-06- 0001- 5	3,770	23' X 500' X .060HDT
3	8251455	GT-6-06- 0168- 5	3,795	23' X 500' X .060HDT
4	8251455	GT-6-06- 0174- 5	3,720	23' X 500' X .060HDT
5	8251455	GT-6-06- 0179- 5	3,775	23' X 500' X .060HDT
6	8251455	GT-6-06- 0180- 5	3,700	23' X 500' X .060HDT
7	200 Mil	C1-8-2-06- 0151- 250	885	13.5' X 250' X 08oz Sng
8	200 Mil	C1-8-2-06- 0152- 250	850	13.5' X 250' X 08oz Sng
9	200 Mil	C1-8-2-06- 0154- 250	840	13.5' X 250' X 08oz Sng
10	200 Mil	C1-8-2-06- 0156- 250	840	13.5' X 250' X 08oz Sng
11	200 Mil	C1-8-2-06- 0159- 250	895	13.5' X 250' X 08oz Sng
12	200 Mil	C1-8-2-06- 0161- 250	890	13.5' X 250' X 08oz Sng
13	200 Mil	C1-8-2-06- 0162- 250	890	13.5' X 250' X 08oz Sng
14	200 Mil	C1-8-2-06- 0164- 250	885	13.5' X 250' X 08oz Sng
15	200 Mil	C1-8-2-06- 0165- 250	895	13.5' X 250' X 08oz Sng
16	200 Mil	C1-8-2-06- 0168- 250	900	13.5' X 250' X 08oz Sng
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28			**31,266**	
29				

I certify that all loading requirements and roll conditions were inspected and approved.

C.E.M.
Truck Loader

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.4 40 and 60 mil Liner Testing and Factory Certifications, Landfill Cell 3

ENTACT Services, LLC
3129 Bass Pro Drive
Grapevine, TX 76051
P: (972) 580-1323
F: (972) 550-7464

ENTACT
www.entact.com

Letter of Transmittal
ASARCO Pond 6 Repository
El Paso, Texas

Submittal Number: **ENTACT- E7302 - 03** **Date:** **2-26-08**

To: Berna Olague
From: Kirk Gates
Project Number/Title: E7302 / Asarco El Paso Pond 6 Repository
Submittal Title MQC Data for 40mil and 60mil Geomembrane
Reference Drawing/ Specification Section: Technical Specification Section – 02777.1.04

Contractor's Submittal Section:

We are sending you: ☒ Attached ☐ Under separate cover via

☒ Technical Data ☐ Drawings ☐ Analytical Results ☐ Plans ☐ Samples ☐ Other:

# of Copies	As Requested	For Review	For Approval	For Your File	Deviations from Specification
1	X		X		NO

Engineer's Approval Section:

Approvals:

☐ Reviewed & Approved ☐ Reviewed & Approved w/Comments ☐ Reviewed & Rejected

Comments: _____

_____

_____

_____

Approved by: _____ **Date:** _____

CC: Kirk Gates, ENTACT
Walter Boyle, ASARCO
Walter Smith, CDM
Ben Natera, Raba Kistner
File

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.
7943 PECUE LANE SUITE A BATON ROUGE, LA 70809 TEL (225) 291–2700 FAX (225) 291-2788

TO: ENTACT Services, Inc.
3129 Bass Pro Drive
Grapevine, TX 76051
TEL # : (972) 580-1323
ATTENTION: Kirk Gates

DATE: 2/20/08
JOB NAME: Asarco El Paso Pond 6 Liner Project
TRANSMITTAL NUMBER: 03
ESI PROJECT NUMBER: 08-02-1019

WE ARE SENDING [X] ATTACHED [ ] UNDER SEPARATE COVER VIA _____ THE FOLLOWING ITEMS:

[ ] SHOP DRAWINGS [ ] PRINTS [ ] PLANS [ ] SAMPLES [ ] SPECIFICATIONS

[ ] COPY OF LETTER [ ] CHANGE ORDER [ ] _____

COPIES	DATE	DRAWING NO.	REV.	DESCRIPTION	ACTION (*)
1	2/20/08			MQC Data for 40 mil and 60 mil Geomembrane	AS/FA

ACTION (*)

[X] AS - AS REQUESTED [X] FA - FOR APPROVAL [ ] _____

[ ] F – FILE [ ] RC - REVIEW & COMMENT [ ] _____

COMMENTS:

SENT VIA:

[X] E-MAIL [ ] MAIL [ ] OVERNIGHT [ ] HAND DELIVERY [ ] OTHER

COPY TO: _____ BY: GREGG ABNEY

If enclosures are not as noted, please notify us at once.....

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA
888-765-9359 972-337-7176 Fax 972-337-8176

CERTIFICATION DOCUMENTS

To: Environmental Specialties International
7943 Pecue Lane
Baton Rouge, LA 70809

Date: 2/19/2008
Poly-Flex Proj # : 280105
Customer PO: 8976
Project Name: Entact Services
Order # : Pre-Cert

Attn: Andy Blanchard
Email: ablanchard@esiliners.com
Number of pages including cover: 8

Departure Date: Pre-Cert
Destination:
Carrier:

Trip No: Pre-Cert
Freight:

Additional Notes:

Distribution of Documents:

Shipment Inspection Sheet:	2
Roll Certification:	2
Resin Certification:	3
Other:	

Attached please find documents for the above referenced shipment. Please let us know if you have any questions.

Sincerely,

Sara Knight

Sara Knight
1-888-765-9359 ext 7176

CERTIFICATION SHEET

DATE: February 19, 2008

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 280105

ORDER NO: Pre-Certification

TRIP NO: Pre-Certification

CERTIFIED BY:

TEST DESCRIPTION		THICKNESS	CARBON BLACK	TEAR	PUNCTURE	TENSILE @ BREAK	ELONG @ BREAK	CAR. BLK. DISPERSION	DENSITY	OXIDATIVE INDUCTION TIME	ASPERITY HEIGHT	OVEN AGING	UV RESISTANCE
ASTM METHOD		D5994	D1603	D1004	D4833	D6693	D6693	D5596	D1505	D3895	GM 12	D5885	D5885
(modifications)		min/avg							Max.				
UNITS		mils	%	lb	lb	ppi	%		g/cc	min.	MILS	%	%
SPECIFICATION		34/38	2.0-3.0	22	44	60	250	Cat 1or2	0.939	100	10	60	35
ROLL NUMBER	BLEND												
LT1-4-07 1680-75	8170960	36/ 44	2.3	28	89	128	578	1	0.935	154	19 / 19	88	52
LT1-4-07 1681-75	8170960	36/ 44	2.3	28	89	128	578	1	0.935	154	18 / 19	88	52
LT1-4-07 1682-75	8170960	36/ 44	2.3	28	89	128	578	1	0.935	154	19 / 18	88	52
LT1-4-07 1683-75	8170960	36/ 44	2.4	28	89	106	546	1	0.935	154	19 / 18	88	52
LT1-4-07 1684-75	8170960	36/ 44	2.4	28	89	106	546	1	0.935	154	21 / 18	88	52
LT1-4-07 1685-75	8170960	36/ 44	2.4	28	89	106	546	1	0.935	154	18 / 19	88	52

1029599

POLYFLEX, INC.

Material Pre-Certification List

Date:	2/18/2008	Material Type:	40LLT
Project Number:	280105	Material Quantity:	6
Customer/Project:	ESI / Entact Services	Completed by:	CM

#	Blend	Roll Number	Weight	Roll Description
1	8170960	LT1 - 4 - 07 - 1680 - 75	3,717	23' X 750' X .040LLT
2	8170960	LT1 - 4 - 07 - 1681 - 75	3,722	23' X 750' X .040LLT
3	8170960	LT1 - 4 - 07 - 1682 - 75	3,717	23' X 750' X .040LLT
4	8170960	LT1 - 4 - 07 - 1683 - 75	3,722	23' X 750' X .040LLT
5	8170960	LT1 - 4 - 07 - 1684 - 75	3,727	23' X 750' X .040LLT
6	8170960	LT1 - 4 - 07 - 1685 - 75	3,727	23' X 750' X .040LLT

CoA Date: 07/27/2007

Certificate of Analysis

Shipped To: POLY AMERICA: GP (GEO)
2000 W MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Averitta
Fax:

CPC Delivery #: 87454873
PO #: 265401
Weight: 184300 LB
Ship Date: 07/27/2007
Package: BULK
Mode: Hopper Car
Car #: CHVX898014
Seal No: 230834

Product:
MARLEX POLYETHYLENE K203 BULK

Lot Number: 8170960

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.16	g/10ml
HLMI Flow Rate	ASTM D1238	14.0	g/10ml
Density	ASTM D1505	0.923	g/cm3
Production Date		07/09/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

CERTIFICATION SHEET

DATE: February 19, 2008

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 280105
ORDER NO: Pre-Certification
TRIP NO: Pre-Certification
CERTIFIED BY:

TEST DESCRIPTION		THICKNESS	CARBON BLACK	TEAR	PUNCTURE	TENSILE @ YIELD	ELONG @ YIELD	TENSILE @ BREAK	ELONG @ BREAK	CAR. BLK. DISPERSION	DENSITY	NCTL	OXIDATIVE INDUCTION TIME	ASPERITY HEIGHT	OVEN AGING	UV RESISTANCE
ASTM METHOD		D5994	D1603	D1004	2065	D6693	D6693	D6693	D6693	D3015	D1505	D5397	D3895	GM 12	D5885	D5885
(modifications)		min/avg			FTMS 101							App.				
UNITS		mils	%	lb	lb	ppi	%	ppi	%		g/cc	hrs	min.	MILS	%	%
SPECIFICATION		54/60	2.0-3.0	39	72	126	12	75	150	A1, A2, A3	0.940	300	100	10	80	50
ROLL NUMBER	BLEND															
HT0-6-07 4052-5	8270273	60/ 70	2.9	50	115	165	17	163	440	A1	0.947	Pass	199	26 / 25	85	77
HT0-6-07 4053-5	8270273	65/ 70	2.6	53	124	162	17	167	480	A1	0.947	Pass	199	26 / 25	85	77
HT0-6-07 4054-5	8270273	60/ 69	2.6	53	124	162	17	167	480	A1	0.947	Pass	199	26 / 25	85	77
HT0-6-07 4056-5	8270273	57/ 68	2.7	51	117	157	18	160	400	A1	0.947	Pass	191	26 / 25	85	77
HT1-6-07 4367-5	8270995	57/ 69	2.6	55	119	166	18	163	466	A1	0.946	Pass	200	24 / 22	85	77
HT1-6-07 4369-5	8270995	57/ 68	2.4	52	116	162	18	182	539	A1	0.947	Pass	194	20 / 20	85	77
HT1-6-07 4408-5	8270995	56/ 70	2.8	53	120	161	17	169	466	A1	0.947	Pass	193	22 / 22	85	77

1029599

POLY-FLEX, INC.

Material Pre-Certification List

Date:	2/18/2008	Material Type:	60HDST
Project Number:	280105	Material Quantity:	7
Customer/Project:	ESI / Entact Services	Completed by:	CM

#	Blend	Roll Number	Weight	Roll Description
1	8270273	HT0 - 6 - 07 - 4052 - 75	3,990	23' X 500' X .060HDST
2	8270273	HT0 - 6 - 07 - 4053 - 75	3,999	23' X 500' X .060HDST
3	8270273	HT0 - 6 - 07 - 4054 - 75	3,914	23' X 500' X .060HDST
4	8270273	HT0 - 6 - 07 - 4056 - 75	3,888	23' X 500' X .060HDST
5	8270995	HT1 - 6 - 07 - 4367 - 75	3,917	23' X 500' X .060HDST
6	8270995	HT1 - 6 - 07 - 4369 - 75	3,855	23' X 500' X .060HDST
7	8270995	HT1 - 6 - 07 - 4408 - 75	3,967	23' X 500' X .060HDST

CoA Date: 02/26/2007

Certificate of Analysis

Shipped To: POLY AMERICA
2000 W MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Averitte
Fax:

CPC Delivery #: 87346497
PO #: 254676
Weight: 48,000 LB (est.)
Ship Date: 02/27/2007
Package: BULK
Mode: Hopper Truck

Product:
MARLEX POLYETHYLENE K306 BULK

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 Hours
(not tested on each lot)

Lot Number: 8270273

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	11.00	g/10mi
Density	ASTM D1505	0.9360	g/cm3
Production Date		02/22/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP.
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

CoA Date: 07/17/2007

Certificate of Analysis

Shipped To: POLY AMERICA: GP (GEO)
2000 W MARSHALL
GRAND PRAIRIE TX 75051
USA

Recipient: Averitte
Fax:

CPC Delivery #: 87447511
PO #: 265402
Weight: 191100 LB
Ship Date: 07/17/2007
Package: BULK
Mode: Hopper Car
Car #: PSPX005866
Seal No: 231004

Product:
MARLEX POLYETHYLENE K306 BULK

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 Hours (not tested on each lot)

Lot Number: 8270995

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.09	g/10ml
HLMI Flow Rate	ASTM D1238	10.8	g/10ml
Density	ASTM D1505	0.937	g/cm3
Production Date		07/02/2007	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Paul S. Newbold
Quality Systems Coordinator

For CoA questions contact Tom Scheirman at 832-813-4637

Precision Geosynthetic Laboratories

March 18, 2008

Eduardo Choquis
RABA-KISTNER CONSULTANTS
3602 Westchase Drive,
Houston, Texas 77042

RE**:** ***Asarco Remedial Waste***

Dear Mr. Choquis:

Thank you for consulting Precision Geosynthetic Laboratories for your material testing needs.

Enclosed is the ***final*** laboratory report for the testing of two (2) 40 mil LLDPE Textured Geomembrane samples received on March 7, 2008.

It shall be noted that the samples tested are believed to be true representative of the material produced under the designation herein stated. In addition, the attached laboratory test results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate tests methods hereby employed are based on the current and accepted industry practices. Precision Geosynthetic Laboratories neither accepts responsibility for nor makes claims to the intended final use and purpose of the material.

By accepting the data and results presented on this report, the Client agrees to limit the liability of Precision Geosynthetic Laboratories from Client and all other parties for claims arising out of the use of this data to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless Precision Geosynthetic Laboratories from and against all liabilities in excess of the aforementioned limit.

The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself.

It is a policy of the company to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Failed seam samples are kept for two (2) years and good seam samples are disposed of after two (2) weeks. Similarly, retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at longer time, please advise us in writing.

Should you have any questions or if we may be of further service to you, please do not hesitate to contact us at telephone number: 800-522-4599.

Sincerely,

PRECISION GEOSYNTHETIC LABORATORIES

Cora B. Queja
Vice President
CS

Enclosure: (Job No. G080132)

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

Precision Geosynthetic Laboratories

CLIENT: RABA-KISTNER CONSULTANTS
PROJECT NAME: *Asarco Remedial Waste*

VERIFICATION OF MATERIAL PROPERTIES
(PGL Job No. G080132)

MATERIAL DESCRIPTION: 40 mil LLDPE Textured Geomembrane

SAMPLES SENT BY: R. Searcey, Poly-flex Inc.

DATE RECEIVED: March 7, 2008 **DATE REPORTED:** March 18, 2008

SAMPLE IDENTIFICATIONS:

SAMPLE ID	PRECISION CONTROL NUMBER
R#LT1-4-07-1682-75	45547
R#LT1-4-07-1685-75	45548

TESTS REQUIRED:

TEST METHOD	DESCRIPTION
ASTM D5994	Thickness Smooth HD
ASTM D1505	Density
ASTM D1603	Carbon Content
ASTM D5596	Carbon Black Dispersion
ASTM D638	Tensile Strength (Type IV)

TEST CONDITIONS: The samples were conditioned for a minimum one hour in the laboratory at 22 ± 2°C (71.6 ± 3.6°F) and at 60 ± 10% relative humidity prior to test.

TEST RESULTS:

The test results are summarized in Table 1 to 2. The units in which the data are reported are included on these tables.

PRECISION GEOSYNTHETIC LABORATORIES

GAI-LAP
Initials: lst #: 013
Date: 3/18/2008

Cora B. Queja
Vice President

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

TABLE 1.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS

PROJECT: Asarco Remedial Waste Repository

Date Received: **3/7/2008**
Date Reported: **3/18/2008**
Client Sample ID: **LT1-4-07-1682-75**
Material Description: **40 mil LLDPE Textured Geomembrane**

QC'd By: _____
PGL Job No.: **G080132**
PGL Control No.: **45547**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60o +/- 2 to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz)															
	Loading Time: 5 sec Specimen Size: 4" x 4"															
		41	**42**	**42**	**42**	**42**	**42**	**42**	**42**	**42**	**42**	**42**	**0**	**41**	**42**	
ASTM D1505	Density (grams/ cm.3)															
		0.9363	**0.9362**	**0.9362**								**0.9363**	**0.0001**	**0.9362**	**0.9363**	
ASTM D638	Tensile Properties:															
Type IV	*Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2^{0}C (73.4+/-3.6^{0}F, and 50+/-5% relative humidity. Rate of Separation: 2"/min (HDPE) 2"/min (VLDPE/LLDPE)*															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	**173**	**176**	**184**	**180**	**180**						**179**	**4**	**173**	**184**	
	TD	**128**	**131**	**132**	**136**	**132**						**132**	**3**	**128**	**136**	
	Elongation at Break (percent) *Gauge Length = 2.0 in. (GRI-GM13 Mod)*															
	MD	**640**	**606**	**651**	**660**	**691**						**649**	**31**	**606**	**691**	
	TD	**601**	**630**	**595**	**606**	**540**						**594**	**33**	**540**	**630**	
ASTM D1603	Carbon Black Content (percent)															
		2.36	**2.35**									**2.36**	**0.00**	**2.35**	**2.36**	
ASTM D5596	Carbon Black Dispersion (category rating per reference chart PCN: 12-455960-38)															
		1	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	N/A			

MD - MACHINE DIRECTION
TD - TRANSVERSE DIRECTION
DC#1987 Record #268

Precision Geosynthetic Laboratories

ISO 9001 - 2000

TABLE 2.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS

PROJECT: Asarco Remedial Waste Repository

Date Received: **3/7/2008**
Date Reported: **3/18/2008**
Client Sample ID: **LT1-4-07-1685-75**
Material Description: **40 mil LLDPE Textured Geomembrane**

QC'd By: _____
PGL Job No.: **G080132**
PGL Control No.: **45548**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60o +/- 2 to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"															
		41	42	42	41	41	41	41	41	42	41	41	0	41	42	
ASTM D1505	Density (grams/ cm.3)															
		0.9370	0.9370	0.9370								0.9370	0.0000	0.9370	0.9370	
ASTM D638 Type IV	Tensile Properties:															
	Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2^0 C (73.4+/-3.6^0 F, and															
	Tensile Strength at Break (lbs/ in.- width)															
	MD	171	165	146	139	132						151	17	132	171	
	TD	171	165	146	139	132						151	17	132	171	
	Elongation at Break (percent) *Gauge Length = 2.0 in. (GRI-GM13 Mod)*															
	MD	668	693	568	516	553						600	77	516	693	
	TD	500	553	565	603	539						552	37	500	603	
ASTM D1603	Carbon Black Content (percent)															
		2.35	2.36									2.35	0.00	2.35	2.36	
ASTM D5596	Carbon Black Dispersion (category rating per reference chart PCN: 12-455960-38)															
		1	1	1	1	1	1	1	1	1	1	1	N/A			

MD - MACHINE DIRECTION
TD - TRANSVERSE DIRECTION
DC#1987 Record #268

Precision Geosynthetic Laboratories

ISO 9001 - 2000

Precision Geosynthetic Laboratories

March 18, 2008

Eduardo Choquis
RABA-KISTNER CONSULTANTS
3602 Westchase Drive,
Houston, Texas 77042

RE**:** ***Asarco Remedial Waste***

Dear Mr. Choquis:

Thank you for consulting Precision Geosynthetic Laboratories for your material testing needs.

Enclosed is the ***final*** laboratory report for the testing of two (2) 60 mil HDPE Double Sided Textured Geomembrane samples received on March 7, 2008.

It shall be noted that the samples tested are believed to be true representative of the material produced under the designation herein stated. In addition, the attached laboratory test results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate tests methods hereby employed are based on the current and accepted industry practices. Precision Geosynthetic Laboratories neither accepts responsibility for nor makes claims to the intended final use and purpose of the material.

By accepting the data and results presented on this report, the Client agrees to limit the liability of Precision Geosynthetic Laboratories from Client and all other parties for claims arising out of the use of this data to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless Precision Geosynthetic Laboratories from and against all liabilities in excess of the aforementioned limit.

The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself.

It is a policy of the company to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Failed seam samples are kept for two (2) years and good seam samples are disposed of after two (2) weeks. Similarly, retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at longer time, please advise us in writing.

Should you have any questions or if we may be of further service to you, please do not hesitate to contact us at telephone number: 800-522-4599.

Sincerely,

PRECISION GEOSYNTHETIC LABORATORIES

Cora B. Queja
Vice President
CS

Enclosure: (Job No. G080133)

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

Precision Geosynthetic Laboratories

CLIENT: RABA-KISTNER CONSULTANTS
PROJECT NAME: *Asarco Remedial Waste*

VERIFICATION OF MATERIAL PROPERTIES
(PGL Job No. G080133)

MATERIAL DESCRIPTION: 60 mil HDPE Textured Geomembrane

SAMPLES SENT BY: R. Searcey, Poly-flex Inc.

DATE RECEIVED: March 7, 2008 **DATE REPORTED:** March 18, 2008

SAMPLE IDENTIFICATIONS:

SAMPLE ID	PRECISION CONTROL NUMBER
R#HT0-6-07-4052-75	45549
R# HT1-6-07-4408-75	45550

TESTS REQUIRED:

TEST METHOD	DESCRIPTION
ASTM D5199	Thickness Smooth HD
ASTM D1505	Density
ASTM D1603	Carbon Content
ASTM D5596	Carbon Black Dispersion
ASTM D638	Tensile Strength (Type IV)

TEST CONDITIONS: The samples were conditioned for a minimum one hour in the laboratory at 22 ± 2°C (71.6 ± 3.6°F) and at 60 ± 10% relative humidity prior to test.

TEST RESULTS:

The test results are summarized in Tables 1 to 2. The units in which the data are reported are included on these tables.

PRECISION GEOSYNTHETIC LABORATORIES

GAI-LAP
Initials: lst #: 013
Date: 3/18/2008

Cora B. Queja
Vice President

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

TABLE 1.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS

PROJECT: Asarco Remedial Waste Repository

Date Received: **3/7/2008**
Date Reported: **3/18/2008**
Client Sample ID: **HT0-6-07-4052-75**
Material Description: **60 mil HDPE Textured Geomembrane**

QC'd By: _____
PGL Job No.: **G080133**
PGL Control No.: **45549**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60o +/- 2 to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"														
		62	61	63	62	61	64	62	66	62	66	63	2	61	66	
ASTM D1505	Density (grams/ cm.3)															
		0.9502	0.9502	0.9502								0.9502	0.0000	0.9502	0.9502	
ASTM D638 Type IV	Tensile Properties:															
	Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2^0 C (73.4+/-3.6^0 F, and 50+/-5% relative humidity. Rate of Separation: 2"/min (HDPE) 2"/min (VLDPE/LLDPE)															
	Tensile Strength at Yield (lbs/ in.-width)															
	MD	208	195	187	192	205						197	9	187	208	
	TD	186	198	193	204	192						195	7	186	204	
	Tensile Strength at Break (lbs/ in.- width)															
	MD	268	203	244	236	255						241	25	203	268	
	TD	164	176	180	198	148						173	18	148	198	
	Elongation at Yield (percent)															
	MD	19	20	17	19	17						18	1	17	20	
	TD	19	18	19	20	18						19	1	18	20	
	Elongation at Break (percent) *Gauge Length = 2.0 in. (GRI-GM13 Mod)*															
	MD	592	441	587	567	584						554	64	441	592	
	TD	481	304	449	499	306						408	96	304	499	
ASTM D1603	Carbon Black Content (percent)															
		2.37	2.35									2.36	0.01	2.35	2.37	
ASTM D5596	Carbon Black Dispersion (category rating per reference chart PCN: 12-455960-38)															
		1	1	1	1	1	1	1	1	1	1	1	N/A			

MD - MACHINE DIRECTION
TD - TRANSVERSE DIRECTION
DC#1987 Record #268

Precision Geosynthetic Laboratories

ISO 9001 - 2000

TABLE 2.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS

PROJECT: Asarco Remedial Waste Repository

Date Received: **3/7/2008**
Date Reported: **3/18/2008**
Client Sample ID: **HT1-6-07-4408-75**
Material Description: **60 mil HDPE Textured Geomembrane**

QC'd By: _____
PGL Job No.: **G080133**
PGL Control No.: **45550**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5994	Thickness (mils)															
	Apparatus: Dead-weight dial micrometer with gauge points tapered at an angle of 60o +/- 2 to the horizontal with the tip rounded to a radius of 0.8+/-0.1 mm(0.031+/-0.004 in), with a specified force of 0.56+/-0.05 N (2+/-0.2 oz) Loading Time: 5 sec Specimen Size: 4" x 4"														
		61	61	62	62	61	62	62	62	61	61	61	0	61	62	
ASTM D1505	Density (grams/ cm.3)															
		0.9505	0.9505	0.9505								0.9505	0.0000	0.9505	0.9505	
ASTM D638 Type IV	Tensile Properties:															
	Test Specimens: Type IV, Width of narrow section:0.25in, Length of narrow section:1.3in, Width Overall:0.75in, Length Overall: 4.5in Conditioning: Conducted test in standard laboratory atmosphere of 23+/-2^0 C (73.4+/-3.6^0 F, and															
	Tensile Strength at Yield (lbs/ in.-width)															
	MD	188	191	186	196	183						189	5	183	196	
	TD	186	187	191	178	181						185	5	178	191	
	Tensile Strength at Break (lbs/ in.- width)															
	MD	232	224	215	199	194						213	16	194	232	
	TD	191	192	194	181	184						189	5	181	194	
	Elongation at Yield (percent)															
	MD	19	19	20	20	18						19	1	18	20	
	TD	17	18	19	19	19						18	1	17	19	
	Elongation at Break (percent) *Gauge Length = 2.0 in. (GRI-GM13 Mod)*															
	MD	554	532	523	444	443						499	52	443	554	
	TD	454	518	489	457	501						484	28	454	518	
ASTM D1603	Carbon Black Content (percent)															
		2.42	2.40									2.41	0.02	2.40	2.42	
ASTM D5596	Carbon Black Dispersion (category rating per reference chart PCN: 12-455960-38)															
		1	1	1	1	1	1	1	1	1	1	1	N/A			

MD - MACHINE DIRECTION
TD - TRANSVERSE DIRECTION
DC#1987 Record #268

Precision Geosynthetic Laboratories

ISO 9001 - 2000

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.5 Geosynthetic Clay Liner Factory Certifications, Landfill Cells 1 and 2

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Date: 5/23/2006
Purchase Order: 306048
ORDER NUMBERS: 021386310, 021386311, 021386313

Tom Sparks
American Enviromental Group
Suite 100
Richfield, OH 44286
tsparks@aegl.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to American Enviromental Group. The shipments left our Lovell, Wyoming plant on 5/22/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
ORDER NUMBERS: 021386310, 021386311, 021386313
PREPARED FOR: American Enviromental Group

CONTENTS:

- Daily GCL production certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
PREPARED FOR: American Enviromental Group

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

Ship Date: 5/22/2006
Order Numbers: 021386310, 021386311, 021386313
Prepared For: American Enviromental Group

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR CLAYMAX 200R

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	100 lbs (445 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	25 lbs/in (44 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	50 psf (2.4 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF CLAYMAX 200R

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR CLAYMAX 200R

Raw Material	test method	mass per area	units
Claymax 200R Base Nonwoven Fabric	ASTM D 5261	2.7	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL ORDER PACKING LIST

GCL shipped for certification package number 000213863

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386310	LO-CLAYMAX200R	200621LO	00001785	150	15	2250	3009
021386310	LO-CLAYMAX200R	200621LO	00001786	150	15	2250	3011
021386310	LO-CLAYMAX200R	200621LO	00001787	150	15	2250	3020
021386310	LO-CLAYMAX200R	200621LO	00001788	150	15	2250	3013
021386310	LO-CLAYMAX200R	200621LO	00001789	150	15	2250	3016
021386310	LO-CLAYMAX200R	200621LO	00001790	150	15	2250	3012
021386310	LO-CLAYMAX200R	200621LO	00001791	150	15	2250	3006
021386310	LO-CLAYMAX200R	200621LO	00001792	150	15	2250	3014
021386310	LO-CLAYMAX200R	200621LO	00001793	150	15	2250	3003
021386310	LO-CLAYMAX200R	200621LO	00001794	150	15	2250	3006
021386310	LO-CLAYMAX200R	200621LO	00001795	150	15	2250	3001
021386310	LO-CLAYMAX200R	200621LO	00001796	150	15	2250	3010
021386313	LO-CLAYMAX200R	200621LO	00001797	150	15	2250	3007
021386310	LO-CLAYMAX200R	200621LO	00001798	150	15	2250	3006
021386310	LO-CLAYMAX200R	200621LO	00001799	150	15	2250	3018
021386310	LO-CLAYMAX200R	200621LO	00001800	150	15	2250	3010
021386313	LO-CLAYMAX200R	200621LO	00001801	150	15	2250	3011
021386313	LO-CLAYMAX200R	200621LO	00001802	150	15	2250	3015
021386313	LO-CLAYMAX200R	200621LO	00001803	150	15	2250	3000
021386313	LO-CLAYMAX200R	200621LO	00001804	150	15	2250	3009
021386313	LO-CLAYMAX200R	200621LO	00001805	150	15	2250	3015
021386313	LO-CLAYMAX200R	200621LO	00001806	150	15	2250	3011
021386313	LO-CLAYMAX200R	200621LO	00001807	150	15	2250	3010
021386313	LO-CLAYMAX200R	200621LO	00001808	150	15	2250	3019
021386313	LO-CLAYMAX200R	200621LO	00001809	150	15	2250	3001
021386313	LO-CLAYMAX200R	200621LO	00001810	150	15	2250	3013
021386313	LO-CLAYMAX200R	200621LO	00001811	150	15	2250	3016

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386313	LO-CLAYMAX200R	200621LO	00001812	150	15	2250	3014
021386311	LO-CLAYMAX200R	200621LO	00001820	150	15	2250	3013
021386313	LO-CLAYMAX200R	200621LO	00001856	150	15	2250	3016
021386313	LO-CLAYMAX200R	200621LO	00001857	150	15	2250	3010
021386311	LO-CLAYMAX200R	200621LO	00001858	150	15	2250	3018
021386311	LO-CLAYMAX200R	200621LO	00001859	150	15	2250	3011
021386311	LO-CLAYMAX200R	200621LO	00001860	150	15	2250	3015
021386311	LO-CLAYMAX200R	200621LO	00001861	150	15	2250	3008
021386311	LO-CLAYMAX200R	200621LO	00001862	150	15	2250	3006
021386311	LO-CLAYMAX200R	200621LO	00001863	150	15	2250	3004
021386311	LO-CLAYMAX200R	200621LO	00001864	150	15	2250	3009
021386311	LO-CLAYMAX200R	200621LO	00001865	150	15	2250	3011
021386311	LO-CLAYMAX200R	200621LO	00001866	150	15	2250	3007
021386311	LO-CLAYMAX200R	200621LO	00001869	150	15	2250	3006
021386311	LO-CLAYMAX200R	200621LO	00001870	150	15	2250	3019
021386311	LO-CLAYMAX200R	200621LO	00001871	150	15	2250	3005
021386311	LO-CLAYMAX200R	200621LO	00001872	150	15	2250	3018
021386311	LO-CLAYMAX200R	200621LO	00001880	150	15	2250	3020
			Totals:	**6750**	**675**	**101250**	**135492**
						Total Number of Rolls Certified:	**45**

CETCO LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000213863

GCL			Geotextiles				Clay
LO-CLAYMAX200R			LO-N/W-BLK-200R-2.7			LO-N/W-BLK-200R-2.7	LO-CG 50-200R
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200621LO	00001785	00001785	2006807927			2006805812	040306A
200621LO	00001786	00001785	2006807927			2006805812	040306A
200621LO	00001787	00001785	2006807927			2006805812	040306A
200621LO	00001788	00001785	2006807927			2006805812	040306A
200621LO	00001789	00001785	2006807927			2006805812	040306A
200621LO	00001790	00001785	2006807927			2006805812	040306A
200621LO	00001791	00001785	2006807927			2006805812	040306A
200621LO	00001792	00001785	2006807927			2006805812	040306A
200621LO	00001793	00001785	2006807927			2006805812	040306A
200621LO	00001794	00001785	2006807927			2006805791	040306A
200621LO	00001795	00001785	2006807927			2006805791	040306A
200621LO	00001796	00001785	2006807927			2006805791	040306A
200621LO	00001797	00001785	2006805807			2006805791	040306A
200621LO	00001798	00001785	2006805807			2006805791	040306A
200621LO	00001799	00001785	2006805807			2006805791	040306A
200621LO	00001800	00001785	2006805807			2006805791	040306A
200621LO	00001801	00001785	2006805807			2006805791	040306A
200621LO	00001802	00001802	2006805807			2006805791	040306A
200621LO	00001803	00001802	2006805807			2006805791	040306A
200621LO	00001804	00001802	2006805807			2006805791	040306A
200621LO	00001805	00001802	2006805807			2006805791	040306A
200621LO	00001806	00001802	2006805807			2006805791	040306A
200621LO	00001807	00001802	2006805807			2006805791	040306A
200621LO	00001808	00001802	2006805807			2006805791	040306A
200621LO	00001809	00001802	2006805807			2006805791	040306B
200621LO	00001810	00001802	2006805807			2006805781	040306B
200621LO	00001811	00001802	2006805807			2006805781	040306B
200621LO	00001812	00001802	2006805795			2006805781	040306B
200621LO	00001820	00001819	2006805795			2006805781	040306B

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200621LO	00001856	00001856	2006603808			2006805792	040406A
200621LO	00001857	00001856	2006603808			2006805792	040406A
200621LO	00001858	00001856	2006603808			2006805793	040406A
200621LO	00001859	00001856	2006805797			2006805793	040406A
200621LO	00001860	00001856	2006805797			2006805793	040406A
200621LO	00001861	00001856	2006805797			2006805793	040406A
200621LO	00001862	00001856	2006805797			2006805793	040406A
200621LO	00001863	00001856	2006805797			2006805793	040406A
200621LO	00001864	00001856	2006805797			2006805793	040406A
200621LO	00001865	00001856	2006805797			2006805793	040406A
200621LO	00001866	00001856	2006805797			2006805793	040406A
200621LO	00001869	00001856	2006805797			2006805793	040406A
200621LO	00001870	00001856	2006805797			2006805793	040406A
200621LO	00001871	00001856	2006805797			2006805793	040406A
200621LO	00001872	00001856	2006805797			2006805793	040406A
200621LO	00001880	00001873	2006603795			2006603809	040406B

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000213863 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	100lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet				
LO-CLAYMAX200R	200621LO	00001785	0.86	263.0
LO-CLAYMAX200R	200621LO	00001802	0.87	263.0
LO-CLAYMAX200R	200621LO	00001819	0.84	263.0
LO-CLAYMAX200R	200621LO	00001856	0.91	275.3
LO-CLAYMAX200R	200621LO	00001873	0.86	275.3

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

AMERICAN COLLOID COMPANY

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000213863 has been tested by American Colloid Co. with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss	Moisture	% Passing 200m	% Retained 8m
	Test Method:	ASTM D 5890	ASTM D 5891	ASTM D 2216	ASTM C 136	ASTM C 136
	Specification:	24ml/2g Min	18ml Max	12% Max	1% Max	0%
LO-CG 50-200R	040306A	28	15.2	11.2	0.4	0
LO-CG 50-200R	040306B	28	15.2	8.4	0.4	0
LO-CG 50-200R	040406A	26	16.2	10	0.3	0
LO-CG 50-200R	040406B	27	16.2	10	0.2	0

Tests approved by
Moses Briseno
American Colloid Company
Quality Assurance Coordinator

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000213863was manufactured with geotextiles which were tested with the following results.

BASE

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
SI 311	2006603809	3.6	81.4
SI 311	2006805781	3.4	91.0
SI 311	2006805791	3.3	86.0
SI 311	2006805792	3.5	89.0
SI 311	2006805793	3.5	89.0
SI 311	2006805812	3.5	83.0

CAP

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
SI 311	2006603795	3.7	78.4
SI 311	2006603808	3.6	81.4
SI 311	2006805795	3.4	88.0
SI 311	2006805797	3.7	88.0
SI 311	2006805807	3.5	83.0
SI 311	2006807927	3.6	91.0

Certifications from our suppliers are on file at our production facility. An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Date: 5/15/2006
Purchase Order: 306048
ORDER NUMBER: 021386306

Tom Sparks
American Enviromental Group
Suite 100
Richfield, OH 44286
tsparks@aegl.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to American Enviromental Group. The shipments left our Lovell, Wyoming plant on 5/12/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
ORDER NUMBER: 021386306
PREPARED FOR: American Enviromental Group

CONTENTS:

- Daily GCL production certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
PREPARED FOR: American Enviromental Group

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

Ship Date: 5/12/2006
Order Number: 021386306
Prepared For: American Enviromental Group

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR CLAYMAX 200R

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	100 lbs (445 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	25 lbs/in (44 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	50 psf (2.4 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF CLAYMAX 200R

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR CLAYMAX 200R

Raw Material	test method	mass per area	units
Claymax 200R Base Nonwoven Fabric	ASTM D 5261	2.7	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL ORDER PACKING LIST

GCL shipped for certification package number 000213863

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386306	LO-CLAYMAX200R	200620LO	00001753	150	15	2250	3013
021386306	LO-CLAYMAX200R	200620LO	00001754	150	15	2250	3006
021386306	LO-CLAYMAX200R	200620LO	00001756	150	15	2250	3002
021386306	LO-CLAYMAX200R	200620LO	00001757	150	15	2250	3007
021386306	LO-CLAYMAX200R	200620LO	00001758	150	15	2250	3001
			Totals:	**750**	**75**	**11250**	**15029**
							Total Number of Rolls Certified: **5**

CETCO LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000213863

GCL			Geotextiles				Clay
LO-CLAYMAX200R			LO-N/W-BLK-200R-2.7			LO-N/W-BLK-200R-2.7	LO-CG 50-200R
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200620LO	00001753	00001752	2006618828			2006637418	032606C
200620LO	00001754	00001752	2006618828			2006637418	032606C
200620LO	00001756	00001752	2006618828			2006637418	032606C
200620LO	00001757	00001752	2006618828			2006637418	032606C
200620LO	00001758	00001752	2006618828			2006637418	032606C

CETCO LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000213863 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	100lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet				
LO-CLAYMAX200R	200620LO	00001752	0.86	288.8

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

AMERICAN COLLOID COMPANY

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000213863 has been tested by American Colloid Co. with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss	Moisture	% Passing 200m	% Retained 8m
	Test Method:	ASTM D 5890	ASTM D 5891	ASTM D 2216	ASTM C 136	ASTM C 136
	Specification:	24ml/2g Min	18ml Max	12% Max	1% Max	0%
LO-CG 50-200R	032606C	25	16	9.6	0.3	0

Tests approved by
Moses Briseno
American Colloid Company
Quality Assurance Coordinator

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000213863was manufactured with geotextiles which were tested with the following results.

BASE			
Material	**Roll Number**	**Mass Area oz/yd2**	**Grab Strength lbs**
SI 311	2006637418	3.5	75.2

CAP			
Material	**Roll Number**	**Mass Area oz/yd2**	**Grab Strength lbs**
SI 311	2006618828	3.5	78.1

Certifications from our suppliers are on file at our production facility. An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Date: 5/15/2006
Purchase Order: 306048
ORDER NUMBER: 021386306

Tom Sparks
American Enviromental Group
Suite 100
Richfield, OH 44286
tsparks@aegl.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to American Enviromental Group. The shipments left our Lovell, Wyoming plant on 5/12/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
ORDER NUMBER: 021386306
PREPARED FOR: American Enviromental Group

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
PREPARED FOR: American Enviromental Group

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured for this project is continually passed under a magnet for needle removal and then screened with a metal detection device. Any detected needles, which can be identified without damaging the GCL, are removed from the product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

Ship Date: 5/12/2006
Order Number: 021386306
Prepared For: American Enviromental Group

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT SDN

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	90 lbs (400 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	22.5 lbs/in (40 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	2.5 lbs/in (4.4 N/cm) Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT SDN

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT SDN

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat SDN Base Nonwoven Fabric	ASTM D 5261	2.7	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

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GCL ORDER PACKING LIST

GCL shipped for certification package number 000213863

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386306	LO-BENTOMAT SDN	200619LO	00001049	150	14.5	2175	2677
021386306	LO-BENTOMAT SDN	200619LO	00001073	150	14.5	2175	2679
021386306	LO-BENTOMAT SDN	200619LO	00001090	150	14.5	2175	2665
021386306	LO-BENTOMAT SDN	200619LO	00001115	150	14.5	2175	2667
021386306	LO-BENTOMAT SDN	200619LO	00001116	150	14.5	2175	2668
021386306	LO-BENTOMAT SDN	200619LO	00001120	150	14.5	2175	2668
021386306	LO-BENTOMAT SDN	200619LO	00001143	150	14.5	2175	2667
021386306	LO-BENTOMAT SDN	200619LO	00001151	150	14.5	2175	2668
021386306	LO-BENTOMAT SDN	200619LO	00001152	150	14.5	2175	2663
021386306	LO-BENTOMAT SDN	200619LO	00001161	150	14.5	2175	2661
021386306	LO-BENTOMAT SDN	200619LO	00001162	150	14.5	2175	2666
			Totals:	**1650**	**159.5**	**23925**	**29349**
				Total Number of Rolls Certified: **11**			

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000213863

GCL			Geotextiles				Clay
LO-BENTOMAT SDN			LO-N/W-WHITE-DN LW			LO-N/W-BLK-DNLW-2.7	LO-CG 50-DN LWNW
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200619LO	00001049	00001046	200608CV	00000688	00000688	2006501821	032206C
200619LO	00001073	00001064	200604CV	00000161	00000156	2006501254	032206C
200619LO	00001090	00001082	200603CV	00000133	00000129	2006501267	032306A
200619LO	00001115	00001100	200607CV	00000552	00000547	2006501248	032306B
200619LO	00001116	00001100	200607CV	00000552	00000547	2006501248	032306B
200619LO	00001120	00001118	200607CV	00000552	00000547	2006501263	032306B
200619LO	00001143	00001136	200604CV	00000139	00000123	2006501253	032306B
200619LO	00001151	00001136	200607CV	00000545	00000542	2006501237	032306B
200619LO	00001152	00001136	200607CV	00000545	00000542	2006501237	032306B
200619LO	00001161	00001154	200611CV	00001110	00001109	2006501237	032306C
200619LO	00001162	00001154	200611CV	00001110	00001109	2006501237	032306C

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000213863 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	90lbs MARV	15lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT SDN	200619LO	00001046	0.84	114.5	34.7
LO-BENTOMAT SDN	200619LO	00001064	0.93	95.7	27.2
LO-BENTOMAT SDN	200619LO	00001082	0.80	95.7	45.1
LO-BENTOMAT SDN	200619LO	00001100	0.86	95.7	43.9
LO-BENTOMAT SDN	200619LO	00001118	0.95	95.7	28.1
LO-BENTOMAT SDN	200619LO	00001136	0.85	95.7	39.2
LO-BENTOMAT SDN	200619LO	00001154	0.88	110.6	33.7

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

AMERICAN COLLOID COMPANY

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000213863 has been tested by American Colloid Co. with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss	Moisture	% Passing 200m	% Retained 8m
	Test Method:	ASTM D 5890	ASTM D 5891	ASTM D 2216	ASTM C 136	ASTM C 136
	Specification:	24ml/2g Min	18ml Max	12% Max	1% Max	0%
LO-CG 50-DN LWNW	032206C	25	14.6	11.2	0.4	0
LO-CG 50-DN LWNW	032306A	27	15	10.4	0.4	0
LO-CG 50-DN LWNW	032306B	29	15.6	10	0.3	0
LO-CG 50-DN LWNW	032306C	29	15.6	10	0.3	0

Tests approved by
Moses Briseno
American Colloid Company
Quality Assurance Coordinator

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GEOTEXTILE TEST RESULTS FOR RAW MATERIAL SUPPLIED BY A CETCO FACILITY

The GCL in certification package number 000213863 was manufactured using these geotextiles:

Material	Lot #	Roll #	Mass Area	Grab Strength
CV-NON-WOVEN	200603CV	00000129	6.6	36.1
CV-NON-WOVEN	200604CV	00000123	6.4	31.3
CV-NON-WOVEN	200604CV	00000156	6.3	35.3
CV-NON-WOVEN	200607CV	00000542	6.4	35.1
CV-NON-WOVEN	200607CV	00000547	6.2	42.2
CV-NON-WOVEN	200608CV	00000688	7.5	59.9
CV-NON-WOVEN	200611CV	00001109	6.2	36.7

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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000213863was manufactured with geotextiles which were tested with the following results.

BASE			
Material	**Roll Number**	**Mass Area oz/yd2**	**Grab Strength lbs**
SI 311	2006501237	3.5	80.8
SI 311	2006501248	3.8	101.0
SI 311	2006501253	3.5	80.7
SI 311	2006501254	3.5	80.7
SI 311	2006501263	3.3	79.1
SI 311	2006501267	3.2	81.2
SI 311	2006501821	3.4	73.6

CETCO
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Date: 5/8/2006
Purchase Order: 306048
ORDER NUMBERS: 021386301, 021386302, 021386303, 021386304

Tom Sparks
American Enviromental Group
Suite 100
Richfield, OH 44286
tsparks@aegl.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to American Enviromental Group. The shipments left our Lovell, Wyoming plant on 5/5/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
ORDER NUMBERS: 021386301, 021386302, 021386303, 021386304
PREPARED FOR: American Enviromental Group

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
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PRODUCTION CERTIFICATION

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
PREPARED FOR: American Enviromental Group

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured for this project is continually passed under a magnet for needle removal and then screened with a metal detection device. Any detected needles, which can be identified without damaging the GCL, are removed from the product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

Ship Date: 5/5/2006
Order Numbers: 021386301, 021386302, 021386303, 021386304
Prepared For: American Enviromental Group

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT SDN

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	90 lbs (400 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	22.5 lbs/in (40 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	2.5 lbs/in (4.4 N/cm) Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT SDN

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT SDN

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat SDN Base Nonwoven Fabric	ASTM D 5261	2.7	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

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GCL ORDER PACKING LIST

GCL shipped for certification package number 000213863

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386301	LO-BENTOMAT SDN	200619LO	00000894	150	14.5	2175	2675
021386302	LO-BENTOMAT SDN	200619LO	00000895	150	14.5	2175	2670
021386303	LO-BENTOMAT SDN	200619LO	00000896	150	14.5	2175	2672
021386301	LO-BENTOMAT SDN	200619LO	00000898	150	14.5	2175	2671
021386301	LO-BENTOMAT SDN	200619LO	00000899	150	14.5	2175	2670
021386301	LO-BENTOMAT SDN	200619LO	00000900	150	14.5	2175	2666
021386301	LO-BENTOMAT SDN	200619LO	00000903	150	14.5	2175	2667
021386304	LO-BENTOMAT SDN	200619LO	00000904	150	14.5	2175	2669
021386301	LO-BENTOMAT SDN	200619LO	00000906	150	14.5	2175	2664
021386304	LO-BENTOMAT SDN	200619LO	00000908	150	14.5	2175	2673
021386304	LO-BENTOMAT SDN	200619LO	00000909	150	14.5	2175	2678
021386304	LO-BENTOMAT SDN	200619LO	00000911	150	14.5	2175	2677
021386303	LO-BENTOMAT SDN	200619LO	00000912	150	14.5	2175	2673
021386304	LO-BENTOMAT SDN	200619LO	00000913	150	14.5	2175	2678
021386303	LO-BENTOMAT SDN	200619LO	00000914	150	14.5	2175	2675
021386304	LO-BENTOMAT SDN	200619LO	00000915	150	14.5	2175	2677
021386304	LO-BENTOMAT SDN	200619LO	00000916	150	14.5	2175	2678
021386301	LO-BENTOMAT SDN	200619LO	00000917	150	14.5	2175	2675
021386301	LO-BENTOMAT SDN	200619LO	00000918	150	14.5	2175	2669
021386302	LO-BENTOMAT SDN	200619LO	00000919	150	14.5	2175	2673
021386301	LO-BENTOMAT SDN	200619LO	00000921	150	14.5	2175	2668
021386302	LO-BENTOMAT SDN	200619LO	00000922	150	14.5	2175	2665
021386303	LO-BENTOMAT SDN	200619LO	00000923	150	14.5	2175	2667
021386304	LO-BENTOMAT SDN	200619LO	00000924	150	14.5	2175	2672
021386301	LO-BENTOMAT SDN	200619LO	00000926	150	14.5	2175	2677
021386301	LO-BENTOMAT SDN	200619LO	00000927	150	14.5	2175	2675
021386303	LO-BENTOMAT SDN	200619LO	00000928	150	14.5	2175	2671

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386303	LO-BENTOMAT SDN	200619LO	00000929	150	14.5	2175	2675
021386303	LO-BENTOMAT SDN	200619LO	00000932	150	14.5	2175	2663
021386301	LO-BENTOMAT SDN	200619LO	00000933	150	14.5	2175	2667
021386304	LO-BENTOMAT SDN	200619LO	00000934	150	14.5	2175	2665
021386304	LO-BENTOMAT SDN	200619LO	00000935	150	14.5	2175	2672
021386303	LO-BENTOMAT SDN	200619LO	00000936	150	14.5	2175	2677
021386301	LO-BENTOMAT SDN	200619LO	00000937	150	14.5	2175	2672
021386304	LO-BENTOMAT SDN	200619LO	00000938	150	14.5	2175	2679
021386304	LO-BENTOMAT SDN	200619LO	00000939	150	14.5	2175	2676
021386303	LO-BENTOMAT SDN	200619LO	00000940	150	14.5	2175	2668
021386303	LO-BENTOMAT SDN	200619LO	00000941	150	14.5	2175	2663
021386303	LO-BENTOMAT SDN	200619LO	00000942	150	14.5	2175	2673
021386303	LO-BENTOMAT SDN	200619LO	00000943	150	14.5	2175	2670
021386303	LO-BENTOMAT SDN	200619LO	00000944	150	14.5	2175	2673
021386301	LO-BENTOMAT SDN	200619LO	00000945	150	14.5	2175	2671
021386302	LO-BENTOMAT SDN	200619LO	00000947	150	14.5	2175	2672
021386304	LO-BENTOMAT SDN	200619LO	00000948	150	14.5	2175	2665
021386304	LO-BENTOMAT SDN	200619LO	00000949	150	14.5	2175	2670
021386304	LO-BENTOMAT SDN	200619LO	00000950	150	14.5	2175	2675
021386304	LO-BENTOMAT SDN	200619LO	00000951	150	14.5	2175	2678
021386303	LO-BENTOMAT SDN	200619LO	00000952	150	14.5	2175	2679
021386302	LO-BENTOMAT SDN	200619LO	00000953	150	14.5	2175	2661
021386302	LO-BENTOMAT SDN	200619LO	00000954	150	14.5	2175	2670
021386302	LO-BENTOMAT SDN	200619LO	00000955	150	14.5	2175	2661
021386302	LO-BENTOMAT SDN	200619LO	00000958	150	14.5	2175	2679
021386303	LO-BENTOMAT SDN	200619LO	00000959	150	14.5	2175	2670
021386302	LO-BENTOMAT SDN	200619LO	00000960	150	14.5	2175	2671
021386302	LO-BENTOMAT SDN	200619LO	00000961	150	14.5	2175	2674
021386302	LO-BENTOMAT SDN	200619LO	00000962	150	14.5	2175	2668
021386302	LO-BENTOMAT SDN	200619LO	00000963	150	14.5	2175	2665
021386303	LO-BENTOMAT SDN	200619LO	00000964	150	14.5	2175	2667
021386302	LO-BENTOMAT SDN	200619LO	00000965	150	14.5	2175	2662

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386302	LO-BENTOMAT SDN	200619LO	00000966	150	14.5	2175	2665
021386301	LO-BENTOMAT SDN	200619LO	00000967	150	14.5	2175	2669
021386301	LO-BENTOMAT SDN	200619LO	00000971	150	14.5	2175	2670
021386302	LO-BENTOMAT SDN	200619LO	00000972	150	14.5	2175	2673
021386302	LO-BENTOMAT SDN	200619LO	00000973	150	14.5	2175	2675
			Totals:	**9600**	**928**	**139200**	**170948**
							Total Number of Rolls Certified: **64**

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000213863

GCL			Geotextiles				Clay
LO-BENTOMAT SDN			LO-N/W-WHITE-DN LW			LO-N/W-BLK-DNLW-2.7	LO-CG 50-DN LWNW
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200619LO	00000894	00000894	200608CV	00000760	00000760	2006671112	032106B
200619LO	00000895	00000894	200608CV	00000760	00000760	2006671112	032106B
200619LO	00000896	00000894	200608CV	00000760	00000760	2006671112	032106B
200619LO	00000898	00000894	200608CV	00000760	00000760	2006671112	032106C
200619LO	00000899	00000894	200608CV	00000760	00000760	2006671112	032106C
200619LO	00000900	00000894	200607CV	00000530	00000527	2006671112	032106C
200619LO	00000903	00000894	200607CV	00000530	00000527	2006671112	032106C
200619LO	00000904	00000894	200607CV	00000530	00000527	2006671112	032106C
200619LO	00000906	00000894	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000908	00000894	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000909	00000894	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000911	00000894	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000912	00000912	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000913	00000912	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000914	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000915	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000916	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000917	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000918	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000919	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000921	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000922	00000912	200609CV	00000931	00000931	2006501822	032106C
200619LO	00000923	00000912	200609CV	00000931	00000931	2006501822	032106C
200619LO	00000924	00000912	200609CV	00000931	00000931	2006501822	032106C
200619LO	00000926	00000912	200609CV	00000931	00000931	2006501257	032106C
200619LO	00000927	00000912	200609CV	00000931	00000931	2006501257	032106C
200619LO	00000928	00000912	200609CV	00000931	00000931	2006501257	032106C
200619LO	00000929	00000912	200613CV	00001371	00001366	2006501257	032106C
200619LO	00000932	00000930	200613CV	00001371	00001366	2006501257	032106C

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200619LO	00000933	00000930	200613CV	00001371	00001366	2006501257	032106C
200619LO	00000934	00000930	200613CV	00001371	00001366	2006501257	032106C
200619LO	00000935	00000930	200613CV	00001371	00001366	2006501257	032106C
200619LO	00000936	00000930	200613CV	00001371	00001366	2006501257	032106C
200619LO	00000937	00000930	200610CV	00001032	00001029	2006501257	032106C
200619LO	00000938	00000930	200610CV	00001032	00001029	2006501257	032106C
200619LO	00000939	00000930	200610CV	00001032	00001029	2006501257	032106C
200619LO	00000940	00000930	200610CV	00001032	00001029	2006501257	032106C
200619LO	00000941	00000930	200610CV	00001032	00001029	2006503065	032106C
200619LO	00000942	00000930	200610CV	00001032	00001029	2006503065	032206A
200619LO	00000943	00000930	200610CV	00001032	00001029	2006503065	032206A
200619LO	00000944	00000930	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000945	00000930	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000947	00000930	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000948	00000948	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000949	00000948	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000950	00000948	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000951	00000948	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000952	00000948	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000953	00000948	200608CV	00000768	00000765	2006503065	032206A
200619LO	00000954	00000948	200608CV	00000768	00000765	2006503065	032206A
200619LO	00000955	00000948	200608CV	00000768	00000765	2006503065	032206A
200619LO	00000958	00000948	200608CV	00000768	00000765	2006503065	032206A
200619LO	00000959	00000948	200607CV	00000528	00000527	2006503065	032206A
200619LO	00000960	00000948	200607CV	00000528	00000527	2006503065	032206A
200619LO	00000961	00000948	200607CV	00000528	00000527	2006503065	032206A
200619LO	00000962	00000948	200607CV	00000528	00000527	2006503065	032206A
200619LO	00000963	00000948	200607CV	00000528	00000527	2006503065	032206A
200619LO	00000964	00000948	200607CV	00000528	00000527	2006503065	032206A
200619LO	00000965	00000948	200608CV	00000689	00000688	2006503065	032206A
200619LO	00000966	00000966	200608CV	00000689	00000688	2006503066	032206A
200619LO	00000967	00000966	200608CV	00000689	00000688	2006503066	032206A
200619LO	00000971	00000966	200608CV	00000689	00000688	2006503066	032206A
200619LO	00000972	00000966	200608CV	00000689	00000688	2006503066	032206A
200619LO	00000973	00000966	200608CV	00000689	00000688	2006503066	032206A

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000213863 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	90lbs MARV	15lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT SDN	200619LO	00000894	0.81	92.3	29
LO-BENTOMAT SDN	200619LO	00000912	0.88	92.3	25.2
LO-BENTOMAT SDN	200619LO	00000930	0.87	92.3	24.3
LO-BENTOMAT SDN	200619LO	00000948	0.95	92.3	26.2
LO-BENTOMAT SDN	200619LO	00000966	0.83	92.3	30.2

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

AMERICAN COLLOID COMPANY

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000213863 has been tested by American Colloid Co. with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss	Moisture	% Passing 200m	% Retained 8m
	Test Method:	ASTM D 5890	ASTM D 5891	ASTM D 2216	ASTM C 136	ASTM C 136
	Specification:	24ml/2g Min	18ml Max	12% Max	1% Max	0%
LO-CG 50-DN LWNW	032106B	25	15.8	10.4	0.5	0
LO-CG 50-DN LWNW	032106C	26	15.8	10.4	0.6	0
LO-CG 50-DN LWNW	032206A	27	15	10.4	0.4	0

Tests approved by
Moses Briseno
American Colloid Company
Quality Assurance Coordinator

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GEOTEXTILE TEST RESULTS FOR RAW MATERIAL SUPPLIED BY A CETCO FACILITY

The GCL in certification package number 000213863 was manufactured using these geotextiles:

Material	Lot #	Roll #	Mass Area	Grab Strength
CV-NON-WOVEN	200603CV	00000102	6.7	28.2
CV-NON-WOVEN	200605CV	00000355	6.4	32.8
CV-NON-WOVEN	200606CV	00000395	7.4	32.0
CV-NON-WOVEN	200607CV	00000527	6.1	41.8
CV-NON-WOVEN	200608CV	00000688	7.5	59.9
CV-NON-WOVEN	200608CV	00000760	6.5	42.1
CV-NON-WOVEN	200608CV	00000765	6.4	46.6
CV-NON-WOVEN	200609CV	00000931	8.1	67.9
CV-NON-WOVEN	200610CV	00001029	6.9	46.1
CV-NON-WOVEN	200613CV	00001366	6.8	42.6

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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000213863was manufactured with geotextiles which were tested with the following results.

BASE			
Material	**Roll Number**	**Mass Area oz/yd2**	**Grab Strength lbs**
SI 311	2006501257	3.8	94.2
SI 311	2006501822	3.4	73.6
SI 311	2006503065	3.4	73.6
SI 311	2006503066	3.4	73.6
SI 311	2006671112	3.3	83.7

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Date: 5/9/2006
Purchase Order: 306048
ORDER NUMBER: 021386305

Tom Sparks
American Enviromental Group
Suite 100
Richfield, OH 44286
tsparks@aegl.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to American Enviromental Group. The shipments left our Lovell, Wyoming plant on 5/8/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
ORDER NUMBER: 021386305
PREPARED FOR: American Enviromental Group

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

CETCO
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PRODUCTION CERTIFICATION

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
PREPARED FOR: American Enviromental Group

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured for this project is continually passed under a magnet for needle removal and then screened with a metal detection device. Any detected needles, which can be identified without damaging the GCL, are removed from the product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

Ship Date: 5/8/2006
Order Number: 021386305
Prepared For: American Enviromental Group

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT SDN

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	90 lbs (400 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	22.5 lbs/in (40 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	2.5 lbs/in (4.4 N/cm) Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT SDN

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT SDN

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat SDN Base Nonwoven Fabric	ASTM D 5261	2.7	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

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GCL ORDER PACKING LIST

GCL shipped for certification package number 000213863

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386305	LO-BENTOMAT SDN	200619LO	00000897	150	14.5	2175	2669
021386305	LO-BENTOMAT SDN	200619LO	00000901	150	14.5	2175	2673
021386305	LO-BENTOMAT SDN	200619LO	00000902	150	14.5	2175	2679
021386305	LO-BENTOMAT SDN	200619LO	00000905	150	14.5	2175	2661
021386305	LO-BENTOMAT SDN	200619LO	00000907	150	14.5	2175	2671
021386305	LO-BENTOMAT SDN	200619LO	00000910	150	14.5	2175	2672
021386305	LO-BENTOMAT SDN	200619LO	00000920	150	14.5	2175	2674
021386305	LO-BENTOMAT SDN	200619LO	00000925	150	14.5	2175	2673
021386305	LO-BENTOMAT SDN	200619LO	00000930	150	14.5	2175	2673
021386305	LO-BENTOMAT SDN	200619LO	00000931	150	14.5	2175	2669
021386305	LO-BENTOMAT SDN	200619LO	00000946	150	14.5	2175	2675
021386305	LO-BENTOMAT SDN	200619LO	00000956	150	14.5	2175	2667
021386305	LO-BENTOMAT SDN	200619LO	00000957	150	14.5	2175	2673
021386305	LO-BENTOMAT SDN	200619LO	00000968	150	14.5	2175	2674
021386305	LO-BENTOMAT SDN	200619LO	00000969	150	14.5	2175	2681
021386305	LO-BENTOMAT SDN	200619LO	00000970	150	14.5	2175	2675
			Totals:	**2400**	**232**	**34800**	**42759**
						Total Number of Rolls Certified: **16**	

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000213863

GCL			Geotextiles				Clay
LO-BENTOMAT SDN			LO-N/W-WHITE-DN LW			LO-N/W-BLK-DNLW-2.7	LO-CG 50-DN LWNW
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200619LO	00000897	00000894	200608CV	00000760	00000760	2006671112	032106C
200619LO	00000901	00000894	200607CV	00000530	00000527	2006671112	032106C
200619LO	00000902	00000894	200607CV	00000530	00000527	2006671112	032106C
200619LO	00000905	00000894	200607CV	00000530	00000527	2006501822	032106C
200619LO	00000907	00000894	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000910	00000894	200606CV	00000395	00000395	2006501822	032106C
200619LO	00000920	00000912	200605CV	00000358	00000355	2006501822	032106C
200619LO	00000925	00000912	200609CV	00000931	00000931	2006501257	032106C
200619LO	00000930	00000930	200613CV	00001371	00001366	2006501257	032106C
200619LO	00000931	00000930	200613CV	00001371	00001366	2006501257	032106C
200619LO	00000946	00000930	200603CV	00000104	00000102	2006503065	032206A
200619LO	00000956	00000948	200608CV	00000768	00000765	2006503065	032206A
200619LO	00000957	00000948	200608CV	00000768	00000765	2006503065	032206A
200619LO	00000968	00000966	200608CV	00000689	00000688	2006503066	032206A
200619LO	00000969	00000966	200608CV	00000689	00000688	2006503066	032206A
200619LO	00000970	00000966	200608CV	00000689	00000688	2006503066	032206A

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000213863 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	90lbs MARV	15lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT SDN	200619LO	00000894	0.81	92.3	29
LO-BENTOMAT SDN	200619LO	00000912	0.88	92.3	25.2
LO-BENTOMAT SDN	200619LO	00000930	0.87	92.3	24.3
LO-BENTOMAT SDN	200619LO	00000948	0.95	92.3	26.2
LO-BENTOMAT SDN	200619LO	00000966	0.83	92.3	30.2

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

AMERICAN COLLOID COMPANY

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000213863 has been tested by American Colloid Co. with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss	Moisture	% Passing 200m	% Retained 8m
	Test Method:	ASTM D 5890	ASTM D 5891	ASTM D 2216	ASTM C 136	ASTM C 136
	Specification:	24ml/2g Min	18ml Max	12% Max	1% Max	0%
LO-CG 50-DN LWNW	032106C	26	15.8	10.4	0.6	0
LO-CG 50-DN LWNW	032206A	27	15	10.4	0.4	0

Tests approved by
Moses Briseno
American Colloid Company
Quality Assurance Coordinator

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GEOTEXTILE TEST RESULTS FOR RAW MATERIAL SUPPLIED BY A CETCO FACILITY

The GCL in certification package number 000213863 was manufactured using these geotextiles:

Material	Lot #	Roll #	Mass Area	Grab Strength
CV-NON-WOVEN	200603CV	00000102	6.7	28.2
CV-NON-WOVEN	200605CV	00000355	6.4	32.8
CV-NON-WOVEN	200606CV	00000395	7.4	32.0
CV-NON-WOVEN	200607CV	00000527	6.1	41.8
CV-NON-WOVEN	200608CV	00000688	7.5	59.9
CV-NON-WOVEN	200608CV	00000760	6.5	42.1
CV-NON-WOVEN	200608CV	00000765	6.4	46.6
CV-NON-WOVEN	200609CV	00000931	8.1	67.9
CV-NON-WOVEN	200613CV	00001366	6.8	42.6

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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000213863was manufactured with geotextiles which were tested with the following results.

BASE			
Material	**Roll Number**	**Mass Area oz/yd2**	**Grab Strength lbs**
SI 311	2006501257	3.8	94.2
SI 311	2006501822	3.4	73.6
SI 311	2006503065	3.4	73.6
SI 311	2006503066	3.4	73.6
SI 311	2006671112	3.3	83.7

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Date: 5/16/2006
Purchase Order: 306048
ORDER NUMBER: 021386307

Tom Sparks
American Enviromental Group
Suite 100
Richfield, OH 44286
tsparks@aegl.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to American Enviromental Group. The shipments left our Lovell, Wyoming plant on 5/15/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
ORDER NUMBER: 021386307
PREPARED FOR: American Enviromental Group

CONTENTS:

- Daily GCL production certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
PREPARED FOR: American Enviromental Group

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

CETCO
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Ship Date: 5/15/2006
Order Number: 021386307
Prepared For: American Enviromental Group

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR CLAYMAX 200R

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	100 lbs (445 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	25 lbs/in (44 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	50 psf (2.4 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF CLAYMAX 200R

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR CLAYMAX 200R

Raw Material	test method	mass per area	units
Claymax 200R Base Nonwoven Fabric	ASTM D 5261	2.7	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

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GCL ORDER PACKING LIST

GCL shipped for certification package number 000213863

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386307	LO-CLAYMAX200R	200541LO	00003000	150	15	2250	3003
021386307	LO-CLAYMAX200R	200549LO	00003642	150	15	2250	3013
021386307	LO-CLAYMAX200R	200549LO	00003661	150	15	2250	3014
021386307	LO-CLAYMAX200R	200610LO	00001293	150	15	2250	3021
021386307	LO-CLAYMAX200R	200611LO	00001294	150	15	2250	3020
021386307	LO-CLAYMAX200R	200611LO	00001308	150	15	2250	3010
021386307	LO-CLAYMAX200R	200618LO	00001748	150	15	2250	3000
021386307	LO-CLAYMAX200R	200620LO	00001752	150	15	2250	3021
021386307	LO-CLAYMAX200R	200620LO	00001755	150	15	2250	3011
021386307	LO-CLAYMAX200R	200620LO	00001761	150	15	2250	3009
021386307	LO-CLAYMAX200R	200620LO	00001762	150	15	2250	3007
021386307	LO-CLAYMAX200R	200620LO	00001763	150	15	2250	3011
021386307	LO-CLAYMAX200R	200620LO	00001764	150	15	2250	3001
021386307	LO-CLAYMAX200R	200620LO	00001765	150	15	2250	3007
021386307	LO-CLAYMAX200R	200620LO	00001766	150	15	2250	3008
			Totals:	**2250**	**225**	**33750**	**45156**
						Total Number of Rolls Certified:	**15**

CETCO LINING TECHNOLOGIES
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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000213863

GCL			Geotextiles				Clay
LO-CLAYMAX200R			LO-N/W-BLK-200R-2.7			LO-N/W-BLK-200R-2.7	LO-CG 50-200R
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200541LO	00003000	00002996	2006017373			2006059030	080905F
200549LO	00003642	00003639	2006305279			2006437254	102805A
200549LO	00003661	00003656	2006433997			2006434014	103105A
200610LO	00001293	00001284	2006603792			2006603165	020106E
200611LO	00001294	00001294	2006603792			2006603165	020206A
200611LO	00001308	00001294	2006603794			2006603793	020206A
200618LO	00001748	00001744	2006637411			2006637418	031506C
200620LO	00001752	00001752	2006618828			2006637418	032606C
200620LO	00001755	00001752	2006618828			2006637418	032606C
200620LO	00001761	00001752	2006618828			2006637418	032606C
200620LO	00001762	00001752	2006618828			2006637418	032606C
200620LO	00001763	00001752	2006618828			2006637418	032606C
200620LO	00001764	00001752	2006618828			2006637418	032606C
200620LO	00001765	00001752	2006618829			2006637418	032606C
200620LO	00001766	00001752	2006618829			2006637418	032606C

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000213863 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	100lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet				
LO-CLAYMAX200R	200541LO	00002996	0.83	288.5
LO-CLAYMAX200R	200549LO	00003639	0.89	325.8
LO-CLAYMAX200R	200549LO	00003656	0.94	325.8
LO-CLAYMAX200R	200610LO	00001284	0.88	275.1
LO-CLAYMAX200R	200611LO	00001294	0.96	246.4
LO-CLAYMAX200R	200618LO	00001744	0.87	265.8
LO-CLAYMAX200R	200620LO	00001752	0.86	288.8

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

AMERICAN COLLOID COMPANY

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000213863 has been tested by American Colloid Co. with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss	Moisture	% Passing 200m	% Retained 8m
	Test Method:	ASTM D 5890	ASTM D 5891	ASTM D 2216	ASTM C 136	ASTM C 136
	Specification:	24ml/2g Min	18ml Max	12% Max	1% Max	0%
LO-CG 50-200R	020106E	25	16.4	9.2	0.2	0
LO-CG 50-200R	020206A	26	16.2	8.8	0.4	0
LO-CG 50-200R	031506C	26	15.8	10.8	0.6	0
LO-CG 50-200R	032606C	25	16	9.6	0.3	0
LO-CG 50-200R	080905F	25	14.4	11.6	0.3	0
LO-CG 50-200R	102805A	26	16	10.8	0.3	0
LO-CG 50-200R	103105A	24	16	9.6	0.3	0

Tests approved by
Moses Briseno
American Colloid Company
Quality Assurance Coordinator

CETCO LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000213863was manufactured with geotextiles which were tested with the following results.

BASE

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
SI 311	2006059030	3.5	73.1
SI 311	2006434014	3.3	76.3
SI 311	2006437254	3.6	83.8
SI 311	2006603165	3.7	75.0
SI 311	2006603793	3.7	78.4
SI 311	2006637418	3.5	75.2

CAP

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
SI 311	2006017371	3.7	88.6
SI 311	2006603792	3.8	84.7
SI 311	2006603794	3.7	78.4
SI 311	2006618828	3.5	78.1
SI 311	2006305279	3.5	73.0
SI 311	2006618829	3.5	78.1
SI 311	2006637411	3.0	70.7
SI 311	2006433997	3.8	79.1

Certifications from our suppliers are on file at our production facility. An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

CETCO
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Date: 5/19/2006
Purchase Order: 306048
ORDER NUMBERS: 021386309, 021386312

Tom Sparks
American Enviromental Group
Suite 100
Richfield, OH 44286
tsparks@aegl.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to American Enviromental Group. The shipments left our Lovell, Wyoming plant on 5/18/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
ORDER NUMBERS: 021386309, 021386312
PREPARED FOR: American Enviromental Group

CONTENTS:

- Daily GCL production certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Entact Asarco TX
CUSTOMER P.O.: 306048
PREPARED FOR: American Enviromental Group

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

Ship Date: 5/18/2006
Order Numbers: 021386309, 021386312
Prepared For: American Enviromental Group

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR CLAYMAX 200R

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	100 lbs (445 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	25 lbs/in (44 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	50 psf (2.4 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF CLAYMAX 200R

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR CLAYMAX 200R

Raw Material	test method	mass per area	units
Claymax 200R Base Nonwoven Fabric	ASTM D 5261	2.7	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

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GCL ORDER PACKING LIST

GCL shipped for certification package number 000213863

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
021386309	LO-CLAYMAX200R	200621LO	00001828	150	15	2250	3015
021386309	LO-CLAYMAX200R	200621LO	00001829	150	15	2250	3009
021386309	LO-CLAYMAX200R	200621LO	00001830	150	15	2250	3009
021386309	LO-CLAYMAX200R	200621LO	00001831	150	15	2250	3004
021386309	LO-CLAYMAX200R	200621LO	00001832	150	15	2250	3010
021386309	LO-CLAYMAX200R	200621LO	00001833	150	15	2250	3019
021386309	LO-CLAYMAX200R	200621LO	00001834	150	15	2250	3015
021386309	LO-CLAYMAX200R	200621LO	00001835	150	15	2250	3011
021386309	LO-CLAYMAX200R	200621LO	00001836	150	15	2250	3005
021386309	LO-CLAYMAX200R	200621LO	00001837	150	15	2250	3012
021386309	LO-CLAYMAX200R	200621LO	00001838	150	15	2250	3003
021386309	LO-CLAYMAX200R	200621LO	00001839	150	15	2250	3000
021386309	LO-CLAYMAX200R	200621LO	00001840	150	15	2250	3012
021386309	LO-CLAYMAX200R	200621LO	00001841	150	15	2250	3005
021386309	LO-CLAYMAX200R	200621LO	00001842	150	15	2250	3001
021386312	LO-CLAYMAX200R	200621LO	00001843	150	15	2250	3006
021386312	LO-CLAYMAX200R	200621LO	00001844	150	15	2250	3009
021386312	LO-CLAYMAX200R	200621LO	00001845	150	15	2250	3011
021386312	LO-CLAYMAX200R	200621LO	00001846	150	15	2250	3016
021386312	LO-CLAYMAX200R	200621LO	00001847	150	15	2250	3004
021386312	LO-CLAYMAX200R	200621LO	00001848	150	15	2250	3013
021386312	LO-CLAYMAX200R	200621LO	00001849	150	15	2250	3006
021386312	LO-CLAYMAX200R	200621LO	00001850	150	15	2250	3009
			Totals:	**3450**	**345**	**51750**	**69204**
						Total Number of Rolls Certified:	**23**

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000213863

GCL			Geotextiles				Clay
LO-CLAYMAX200R			LO-N/W-BLK-200R-2.7			LO-N/W-BLK-200R-2.7	LO-CG 50-200R
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200621LO	00001828	00001819	2006805776			2006805769	040306B
200621LO	00001829	00001819	2006805776			2006805769	040306B
200621LO	00001830	00001819	2006805776			2006805769	040306B
200621LO	00001831	00001819	2006805776			2006805769	040306B
200621LO	00001832	00001819	2006805776			2006805769	040306B
200621LO	00001833	00001819	2006805776			2006805769	040306B
200621LO	00001834	00001819	2006805776			2006805769	040306B
200621LO	00001835	00001819	2006805776			2006805769	040306B
200621LO	00001836	00001836	2006805776			2006805769	040306B
200621LO	00001837	00001836	2006805776			2006805769	040306B
200621LO	00001838	00001836	2006805776			2006805769	040306B
200621LO	00001839	00001836	2006805776			2006805769	040306B
200621LO	00001840	00001836	2006805776			2006805769	040306B
200621LO	00001841	00001836	2006805776			2006805792	040306B
200621LO	00001842	00001836	2006805776			2006805792	040306B
200621LO	00001843	00001836	2006603808			2006805792	040306B
200621LO	00001844	00001836	2006603808			2006805792	040306B
200621LO	00001845	00001836	2006603808			2006805792	040306B
200621LO	00001846	00001836	2006603808			2006805792	040306B
200621LO	00001847	00001836	2006603808			2006805792	040306B
200621LO	00001848	00001836	2006603808			2006805792	040306B
200621LO	00001849	00001836	2006603808			2006805792	040306B
200621LO	00001850	00001836	2006603808			2006805792	040306B

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000213863 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	100lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet				
LO-CLAYMAX200R	200621LO	00001819	0.84	263.0
LO-CLAYMAX200R	200621LO	00001836	0.83	263.0

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

AMERICAN COLLOID COMPANY

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000213863 has been tested by American Colloid Co. with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss	Moisture	% Passing 200m	% Retained 8m
	Test Method:	ASTM D 5890	ASTM D 5891	ASTM D 2216	ASTM C 136	ASTM C 136
	Specification:	24ml/2g Min	18ml Max	12% Max	1% Max	0%
LO-CG 50-200R	040306B	28	15.2	8.4	0.4	0

Tests approved by
Moses Briseno
American Colloid Company
Quality Assurance Coordinator

CETCO
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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000213863was manufactured with geotextiles which were tested with the following results.

BASE			
Material	**Roll Number**	**Mass Area oz/yd2**	**Grab Strength lbs**
SI 311	2006805769	3.4	83.0
SI 311	2006805792	3.5	89.0

CAP			
Material	**Roll Number**	**Mass Area oz/yd2**	**Grab Strength lbs**
SI 311	2006603808	3.6	81.4
SI 311	2006805776	3.8	81.0

Certifications from our suppliers are on file at our production facility.
An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

Appendix H Field Test Data and Material Certifications – Category I
Excavation and Landfills

H.6 Geosynthetic Clay Liner Testing and Factory Certifications, Landfill Cell 3

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Date: 3/17/2008
Purchase Order: 8975
ORDER NUMBER: 000236441

James Land
ESI-Environmental Specialties Int'l.
7943 Pecue Lane
Baton Rouge, LA 70809
jland@esiliners.com

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to ESI-Environmental Specialties Int'l.. The shipments left our Lovell, Wyoming plant on 3/16/2008.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO
LINING TECHNOLOGIES
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GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Entact Services
CUSTOMER P.O.: 8975
ORDER NUMBER: 000236441
PREPARED FOR: ESI-Environmental Specialties Int'l.

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax:
E-Mail: rwilke@cetco.com

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Entact Services
CUSTOMER P.O.: 8975
PREPARED FOR: ESI-Environmental Specialties Int'l.

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured for this project is continually passed under a magnet for needle removal and then screened with a metal detection device. CETCO certifies Bentomat® to be essentially free of broken needles and fragments of needles that would negatively effect the performance of the final product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Ship Date: 3/16/2008
Order Number: 000236441
Prepared For: ESI-Environmental Specialties Int'l.

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT DN

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	150 lbs (660 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	50 lbs/in MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	3.5 lbs/in Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT DN

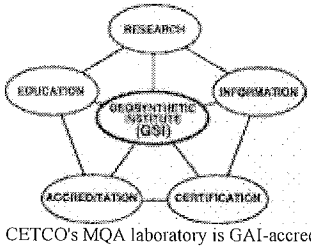
Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5993	Bentonite Mass/Area	Standard	.80 lbs/sf	Standard
ASTM D 4643	GCL Moisture	Standard	35 % Max	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT DN

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat DN Base Nonwoven Fabric	ASTM D 5261	6.0	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.



CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

LINING TECHNOLOGIES
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GCL ORDER PACKING LIST

GCL shipped for certification package number 000236441

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000236441	LO-BENTOMAT DN	200811LO	00001648	150	14	2100	2495
000236441	LO-BENTOMAT DN	200811LO	00001649	150	14	2100	2480
000236441	LO-BENTOMAT DN	200811LO	00001650	150	14	2100	2540
000236441	LO-BENTOMAT DN	200811LO	00001651	150	14	2100	2455
000236441	LO-BENTOMAT DN	200811LO	00001652	150	14	2100	2530
000236441	LO-BENTOMAT DN	200811LO	00001653	150	14	2100	2585
000236441	LO-BENTOMAT DN	200811LO	00001654	150	14	2100	2555
000236441	LO-BENTOMAT DN	200811LO	00001655	150	14	2100	2560
000236441	LO-BENTOMAT DN	200811LO	00001656	150	14	2100	2575
000236441	LO-BENTOMAT DN	200811LO	00001657	150	14.5	2175	2570
000236441	LO-BENTOMAT DN	200811LO	00001658	150	14.5	2175	2565
000236441	LO-BENTOMAT DN	200811LO	00001659	150	14.5	2175	2550
000236441	LO-BENTOMAT DN	200811LO	00001660	150	14.5	2175	2560
000236441	LO-BENTOMAT DN	200811LO	00001661	150	14.5	2175	2570
000236441	LO-BENTOMAT DN	200811LO	00001662	150	14.5	2175	2555
000236441	LO-BENTOMAT DN	200811LO	00001663	150	14.5	2175	2560
000236441	LO-BENTOMAT DN	200811LO	00001664	150	14.5	2175	2565
000236441	LO-BENTOMAT DN	200811LO	00001665	150	14.5	2175	2570
000236441	LO-BENTOMAT DN	200811LO	00001666	150	14.5	2175	2550
000236441	LO-BENTOMAT DN	200811LO	00001667	150	14.5	2175	2535
000236441	LO-BENTOMAT DN	200811LO	00001668	150	14.5	2175	2540
000236441	LO-BENTOMAT DN	200811LO	00001669	150	14.5	2175	2535
000236441	LO-BENTOMAT DN	200811LO	00001670	150	14.5	2175	2550
000236441	LO-BENTOMAT DN	200811LO	00001671	150	14.5	2175	2540
000236441	LO-BENTOMAT DN	200811LO	00001672	150	14.5	2175	2560
000236441	LO-BENTOMAT DN	200811LO	00001673	150	14.5	2175	2555
000236441	LO-BENTOMAT DN	200811LO	00001674	150	14.5	2175	2565

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000236441	LO-BENTOMAT DN	200811LO	00001675	150	14.5	2175	2570
000236441	LO-BENTOMAT DN	200811LO	00001676	150	14.5	2175	2550
000236441	LO-BENTOMAT DN	200811LO	00001677	150	14.5	2175	2545
000236441	LO-BENTOMAT DN	200811LO	00001678	150	14.5	2175	2560
000236441	LO-BENTOMAT DN	200811LO	00001679	150	14.5	2175	2570
000236441	LO-BENTOMAT DN	200811LO	00001680	150	14.5	2175	2565
000236441	LO-BENTOMAT DN	200811LO	00001681	150	14.5	2175	2580
000236441	LO-BENTOMAT DN	200811LO	00001682	150	14.5	2175	2550
000236441	LO-BENTOMAT DN	200811LO	00001683	150	14.5	2175	2525
000236441	LO-BENTOMAT DN	200811LO	00001684	150	14.5	2175	2535
000236441	LO-BENTOMAT DN	200811LO	00001685	150	14.5	2175	2520
000236441	LO-BENTOMAT DN	200811LO	00001686	150	14.5	2175	2530
000236441	LO-BENTOMAT DN	200811LO	00001687	150	14.5	2175	2515
000236441	LO-BENTOMAT DN	200811LO	00001688	150	14.5	2175	2525
000236441	LO-BENTOMAT DN	200811LO	00001689	150	14.5	2175	2500
000236441	LO-BENTOMAT DN	200811LO	00001690	150	14.5	2175	2505
000236441	LO-BENTOMAT DN	200811LO	00001691	150	14.5	2175	2515
000236441	LO-BENTOMAT DN	200811LO	00001692	150	14.5	2175	2520
			Totals:	**6750**	**648**	**97200**	**114450**
						Total Number of Rolls Certified: **45**	

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000236441

GCL			Geotextiles				Clay
LO-BENTOMAT DN			LO-N/W-WHITE-DN			LO-N/W-BLACK-DN-6 OZ	LO-CG 50-DN
GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200811LO	00001648	00001648	200801CV	00000059	00000056	2009888661	030608C
200811LO	00001649	00001648	200801CV	00000059	00000056	2009888661	030608C
200811LO	00001650	00001648	200801CV	00000059	00000056	2009888661	030608C
200811LO	00001651	00001648	200801CV	00000059	00000056	2009888661	030608C
200811LO	00001652	00001648	200802CV	00000117	00000109	2009888661	030608C
200811LO	00001653	00001648	200802CV	00000117	00000109	2009888661	030608C
200811LO	00001654	00001648	200802CV	00000117	00000109	2009888661	030608C
200811LO	00001655	00001648	200802CV	00000117	00000109	2009888661	030608C
200811LO	00001656	00001648	200802CV	00000117	00000109	2009888661	030608C
200811LO	00001657	00001648	200802CV	00000117	00000109	2009960502	030608C
200811LO	00001658	00001648	200802CV	00000117	00000109	2009960502	030608C
200811LO	00001659	00001648	200802CV	00000117	00000109	2009960502	030708A
200811LO	00001660	00001648	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001661	00001648	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001662	00001648	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001663	00001648	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001664	00001648	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001665	00001648	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001666	00001666	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001667	00001666	200805CV	00000388	00000388	2009960502	030708A
200811LO	00001668	00001666	200805CV	00000408	00000404	2009960502	030708A
200811LO	00001669	00001666	200805CV	00000408	00000404	2009960502	030708A
200811LO	00001670	00001666	200805CV	00000408	00000404	2009913176	030708A
200811LO	00001671	00001666	200805CV	00000408	00000404	2009913176	030708A
200811LO	00001672	00001666	200805CV	00000408	00000404	2009913176	030708A
200811LO	00001673	00001666	200805CV	00000408	00000404	2009913176	030708A
200811LO	00001674	00001666	200805CV	00000408	00000404	2009913176	030708A
200811LO	00001675	00001666	200805CV	00000383	00000381	2009913176	030708A
200811LO	00001676	00001666	200805CV	00000383	00000381	2009913176	030708A

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200811LO	00001677	00001666	200805CV	00000383	00000381	2009913176	030708A
200811LO	00001678	00001666	200805CV	00000383	00000381	2009913176	030708A
200811LO	00001679	00001666	200805CV	00000383	00000381	2009913176	030708A
200811LO	00001680	00001666	200805CV	00000383	00000381	2009913176	030708A
200811LO	00001681	00001666	200805CV	00000383	00000381	2009913176	030708A
200811LO	00001682	00001666	200805CV	00000383	00000381	2009913176	030708A
200811LO	00001683	00001666	200805CV	00000386	00000381	2009913176	030708A
200811LO	00001684	00001684	200805CV	00000386	00000381	2009960501	030708A
200811LO	00001685	00001684	200805CV	00000386	00000381	2009960501	030708A
200811LO	00001686	00001684	200805CV	00000386	00000381	2009960501	030708A
200811LO	00001687	00001684	200805CV	00000386	00000381	2009960501	030708A
200811LO	00001688	00001684	200805CV	00000386	00000381	2009960501	030708A
200811LO	00001689	00001684	200805CV	00000386	00000381	2009960501	030708A
200811LO	00001690	00001684	200805CV	00000386	00000381	2009960501	030708A
200811LO	00001691	00001684	200805CV	00000392	00000388	2009960501	030708A
200811LO	00001692	00001684	200805CV	00000392	00000388	2009960501	030708A

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000236441 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 6768	ASTM D 6496
		Standard Specification:	0.75 lb/sq ft MARV	50lbs/in MARV	3.5lbs/in MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT DN	200811LO	00001648	0.88	94.9	9
LO-BENTOMAT DN	200811LO	00001666	0.84	94.9	7.6
LO-BENTOMAT DN	200811LO	00001684	0.86	94.9	7.1

Product	Lot # Tested	Roll # Tested	Moisture
LO-BENTOMAT DN	200811LO	00001648	24.9
LO-BENTOMAT DN	200811LO	00001666	25.0
LO-BENTOMAT DN	200811LO	00001684	25.1

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

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BENTONITE CLAY CERTIFICATION

The Bentonite Clay used to produce package 000236441 has been tested by American Colloid Company and yeilded the following test results.

Reference	Swell	Fluid Loss
Test Method:	ASTM D 5890	ASTM D 5891
Specification:	24 Min	18 ml Max
030608C	27.0	14.6
030708A	26.0	14.6

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GEOTEXTILE TEST RESULTS FOR RAW MATERIAL SUPPLIED BY A CETCO FACILITY

The GCL in certification package number 000236441 was manufactured using these geotextiles:

Material	Lot #	Roll #	Mass Area	Grab Strenth
CV-NON-WOVEN	200801CV	00000056	7.3	44.5
CV-NON-WOVEN	200802CV	00000109	6.3	41.9
CV-NON-WOVEN	200805CV	00000381	6.5	32.5
CV-NON-WOVEN	200805CV	00000388	6.4	40.0
CV-NON-WOVEN	200805CV	00000404	6.9	29.2

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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000236441 was manufactured with geotextiles which were tested with the following results.

BASE

Material	Roll Number	Mass Area oz/yd2	Grab Strenth lbs
PPX HH65L	2009888661	6.4	202.8
PPX HH65L	2009913176	6.6	197.7
PPX HH65L	2009960501	6.2	192.3
PPX HH65L	2009960502	6.2	192.3

March 31, 2008

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Eduardo Choquis, P.E.
Associate
Raba-Kistner Consultants
3602 Westchase Drive
Houston, Texas 77042

Re: GCL Internal Shear Strength
Asarco - El Paso

Dear Mr. Choquis:

CETCO has reviewed the GCL internal shear testing results from the ASARCO project, provided in an e-mail dated March 31, 2008. The tests were performed on samples hydrated for 24 hours at normal loads ranging from 720 to 1,296 psf. The reported test results are summarized as follows:

Test	**Peak Strength**		**LD Strength**	
GCL Internal Shear (roll #1651)	**Cohesion (psf)**	**Friction Angle (^{o})**	**Cohesion (psf)**	**Friction Angle (^{o})**
	2,804	23.6	2,022	17.6

CETCO understands that you are concerned that the friction angles are less than expected for the loads tested. (We also understand that the minimum friction angle listed in the specifications is 24 degrees). Please note that simply comparing friction angles can be misleading. Shear strength parameters are reported by fitting a linear equation ($\tau = c + \sigma \tan \phi$) to a non-linear set of data. This forced linear regression can produce a high "apparent" cohesion, where the best-fit line intercepts the y-axis. Using only the friction angle without the cohesion in these situations will underestimate the total shear strength actually available. We would like to present the following for your consideration:

- The GCL direct shear test method, ASTM D6243, was written by the co-task group leaders Allen Marr, Geotesting Express, and Rob Swan, formerly of SGI Services. Both of these geosynthetic testing firms have expressed the opinion that ignoring cohesion is overly conservative and that the <u>total shear strength</u> values at each normal load should be used in design analysis and specifications.

- Allen Marr wrote an article titled "Interface and Internal Shear Testing Procedures to Obtain Peak and Residual Values" for the 15th Geosynthetic Research Institute Conference. In his paper, he states, "I urge engineers to avoid statements like 'the material shall have a friction angle greater than … degrees'. Some conditions may produce a high strength that consists of a cohesive component and a frictional component. The friction angle may be lower than the required value but the material still has adequate strength for stability due to high cohesion."

- The Geosynthetic Research Institute (GRI) at Drexel University recently published a white paper on the interpretation of interface shear strength data. When discussing the use of only the friction angle, and disregarding cohesion, the paper states, "the effect of this very conservative approach on the FS-value of the slope is substantial," and that, "we do not recommend this approach". As an alternative, the paper also states that, "a very straightforward approach to a specification value is to require a certain shear strength value at a particular normal stress."

- Fox and Stark (2004) also discuss the use of total shear strength in slope stability analyses, as an alternative to using separate c and ϕ values. Most slope stability software programs allow a user to enter as many as 20 combinations of normal and shear stress to describe a failure envelope. The programs then linearly interpolate between these data points as needed to determine shear resistance for the normal stresses encountered along the failure surface.

With these considerations in mind, the ASARCO shear test results can also be reviewed in terms of the *total shear strength*, as shown below:

Normal Stress, psf	**Specified Peak Shear Strength, psf** (corresponds to 24 degrees)	**Total Peak Shear Strength, psf**	**Total LD Shear Strength, psf**
720	321	3,105	2,104
1,008	449	3,272	2,635
1,296	577	3,357	2,287

As you can see, the total measured shear strength values for ***all normal loads greatly exceed the project requirement***. These shear values correspond to secant angles ranging from 69 to 77 degrees (peak) and 60 to 71 degrees (large displacement), showing compliance with the project requirement of 24 degrees. Based on the technical information presented above, the Bentomat DN sample exhibits a very high internal shear strength, far in excess of the project requirements. Accordingly, we recommend that the materials be accepted for use at the ASARCO site.

If you have any questions or need additional information, please call me at 847-818-7945 (office) or 847-323-8750 (mobile).

Sincerely,

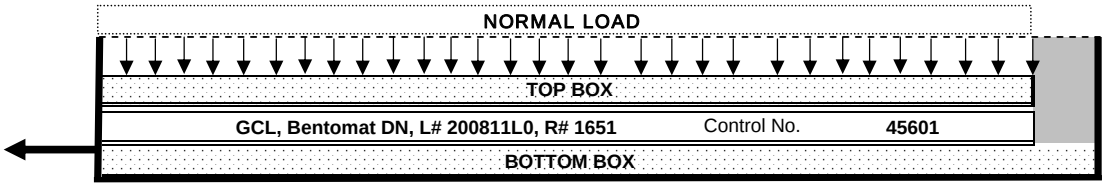
Chris Athanassopoulos, P.E.
Technical Support Engineer

TABLE **Internal Shear**
CLIENT: **Raba Kistner Consultants**
PROJECT: **ASARCO Landfill**

INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)
PGL Job No. G080136

Reviewed By:
Date: **3/28/2008**

TEST CONFIGURATION **Internal Shear**



TEST CONDITIONS:

SAMPLE PREPARATION:

1. Specimens were cut along machine direction to 14" x 19" for the upper box, and 14" x 17" for the lower box, with an effective test area of 12" x 12".

CONSOLIDATION:

1. Each set of specimen was consolidated under **saturated** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **saturated** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321 using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		After-Test Moisture Content	PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		GCL	Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	(%)	(psf)	(degrees)	(psf)	(degrees)
5.0	720	105	3105	77	2104	71
7.0	1008	98	3272	73	2635	69
9.0	1,296	101	3357	69	2287	60
Note:		**COHESION (psf) :**	**2804**		**2022**	
N/A - Not Applicable		**COEFFICIENT OF FRICTION :**	**0.44**		**0.32**	
		FRICTION ANGLE (degrees) :	**23.6**		**17.6**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS: 1. See Figures #1 and #2

Figure #1
Normal Stress/ Interface Stress

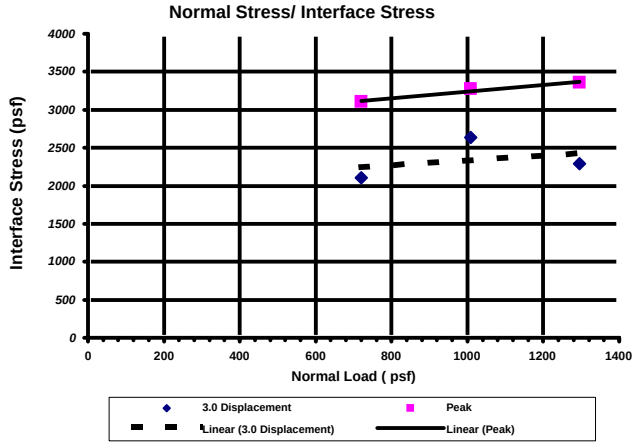
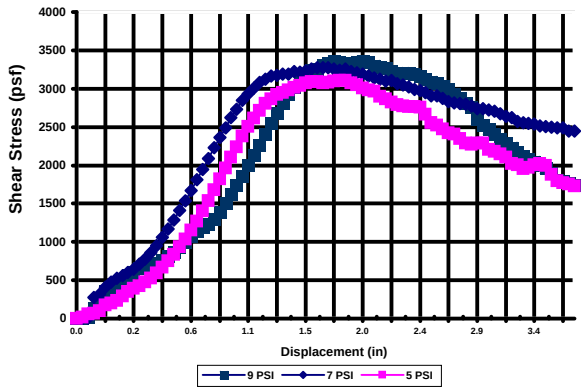


Figure #2
Shear Stress/ Displacement Curve



Precision Geosynthetic Laboratories

TABLE 1

CLIENT: Raba Kistner Consultants

PROJECT: ASARCO Landfill

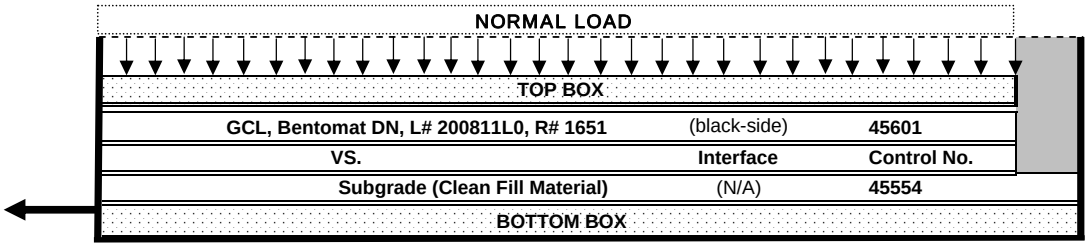
INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)

PGL Job No. G080136

Reviewed By: _____

Date: 30-Mar-08

TEST CONFIGURATION **1**



TEST CONDITIONS:

SAMPLE PREPARATION:

1. The TOP box contained the soil .
   Specimens were cut along machine direction to 14" x 17" for the BOTTOM box, with effective test area of 12" x 12".
2. The Maximum Dry Density (**MDD**) of the soil is **119.2** **pcf** at **11.4%** Optimum Moisture Content (**OMC**).
3. Soil specimen was remolded to **107.3** **pcf** ; i.e., **90.0%** of **MDD** at **2%** moisture above **OMC.**
   forming 2 inch layer in the TOP box.

CONSOLIDATION:

1. Each set of specimen was consolidated under **flooded** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load
   and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **flooded** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321
   using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		After-Test Moisture Content (%)		PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
				Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	GCL	SOIL	(psf)	(degrees)	(psf)	(degrees)
5.0	720	98	21	795	48	793	48
7.0	1008	91	17	1059	46	1048	46
9.0	1,296	81	16	1177	42	1175	42
Note:			**COHESION (psf) :**	**342**		**337**	
N/A - Not Applicable			**COEFFICIENT OF FRICTION :**	**0.66**		**0.66**	
			FRICTION ANGLE (degrees) :	**33.6**		**33.6**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS: 1. See Figures #1 and #2

Figure #1
Normal Stress/ Interface Stress

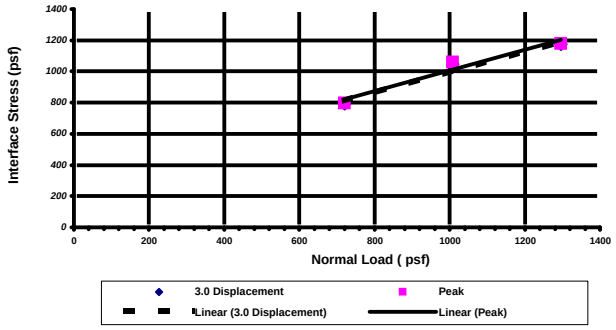


Figure #2
Shear Stress/ Displacement Curve

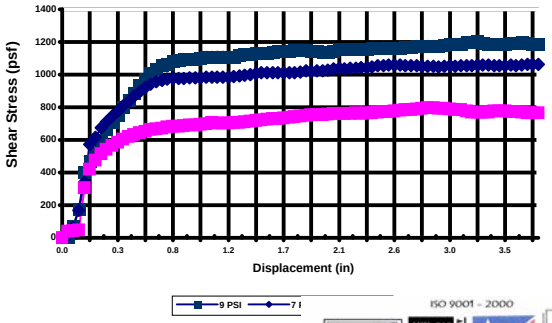


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TABLE 2

CLIENT: Raba Kistner Consultants

PROJECT: ASARCO Landfill

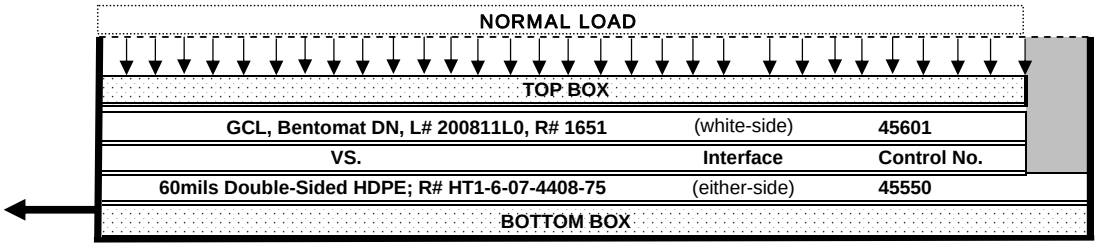
INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)

PGL Job No. G080136

Reviewed By: _____

Date: 30-Mar-08

TEST CONFIGURATION **2**



TEST CONDITIONS:

SAMPLE PREPARATION:

1. Specimens were cut along machine direction to 14" x 19" for the upper box, and 14" x 17" for the lower box, with an effective test area of 12" x 12".

CONSOLIDATION:

1. Each set of specimen was consolidated under **flooded** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **flooded** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321 using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		After-Test Moisture Content	Asperity Heights		PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		GCL	Before	After	Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	(%)	(mils)	(mils)	(psf)	(degrees)	(psf)	(degrees)
5.0	720	130	28	27	598	40	595	40
7.0	1008	104	27	26	742	36	737	36
9.0	1,296	98	27	25	836	33	833	33
Note: N/A - Not Applicable				**COHESION (psf) :**	**309**		**305**	
				COEFFICIENT OF FRICTION :	**0.41**		**0.41**	
				FRICTION ANGLE (degrees) :	**22.5**		**22.5**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS: 1. See Figures #1 and #2

Figure #1
Normal Stress/ Interface Stress

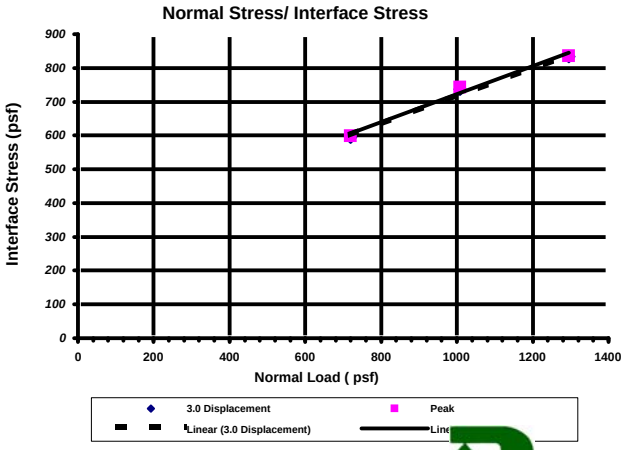


Figure #2
Shear Stress/ Displacement Curve

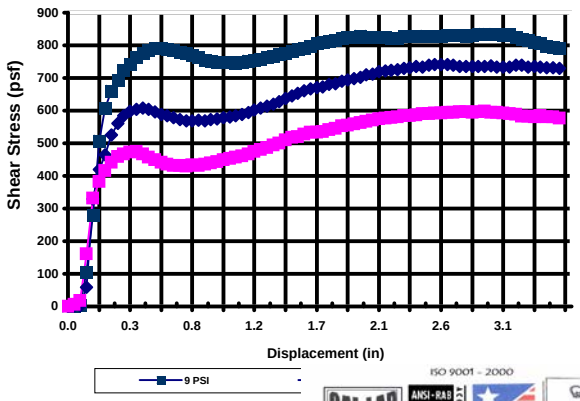


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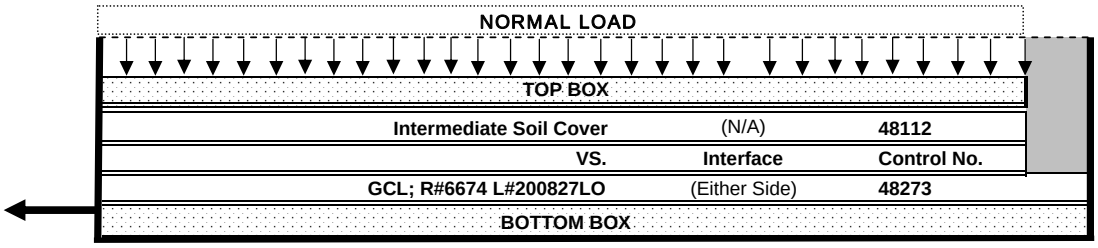
TABLE 5
CLIENT: Raba Kistner
PROJECT: Asarco

INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)
PGL Job No. G080707

Reviewed By: _____
Date: 7/14/2008

TEST CONFIGURATION **5**



TEST CONDITIONS:

SAMPLE PREPARATION:

1. The TOP box contained the soil .
   Specimens were cut along machine direction to 14" x 17" for the BOTTOM box, with effective test area of 12" x 12".
2. The Maximum Dry Density (**MDD**) of the soil is **127** **pcf** at **10%** Optimum Moisture Content (**OMC**).
3. Soil specimen was remolded to **114.3** **pcf** ; i.e., **90.00%** of **MDD** at **9%** moisture content.
   forming 2 inch layer in the TOP box.
4. Specimens were secured via flat bar clamping mechanisms complete with bolts and nuts (7-pairs).

CONSOLIDATION:

1. Each set of specimen was consolidated under **flooded** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load
   and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **flooded** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321
   using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		Moisture Content (%)				PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		GCL		Soil		Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	Before	After	Before	After	(psf)	(degrees)	(psf)	(degrees)
2.00	288	2	112	9	16	352	51	352	51
5.00	720	2	115	9	16	669	43	657	42
8.00	1,152	2	109	9	14	818	35	807	35
Note:					**COHESION (psf) :**	**225**		**226**	
N/A - Not Applicable					**COEFFICIENT OF FRICTION :**	**0.54**		**0.53**	
					FRICTION ANGLE (degrees) :	**28.3**		**27.8**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS:

1. See Figures #1 and #2
2. No tilting of the system or any abnormalities observed during and after the test.
3. Superficial abrasion on the geosynthetic contact side (typical to all loads).

Figure #1
Normal Stress/ Interface Stress

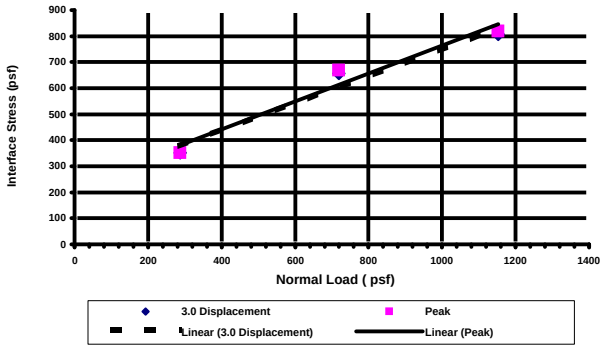
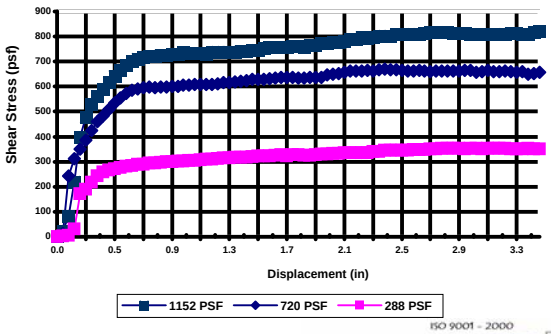


Figure #2
Shear Stress/ Displacement Curve



Precision Geosynthetic Laboratories

Raba Kistner

Raba-Kistner Consultants, Inc.
3602 Westchase
Houston, TX 77042
(713) 996-8990 • FAX (713) 996-8993
www.rkci.com

MEMORANDUM

(SUBMITTED VIA ELECTRONIC MAIL)

TO: Mr. Arturo Burgos – ASARCO (ABurgos@asarco.com)
Mr. Walter Boyle – ASARCO (WBoyle@asarco.com)

FROM: Eduardo D. Choquis, P.E. RVK
Associate For EDC

DATE: July 28, 2008

RE: **Interface (Direct Shear) Testing Review Summary**
Pond 6 Waste Repository – Final Cover System
ASARCO El Paso Copper Smelter Plant
R-K Project No. ASF08-102-01

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The interface testing results corresponding to the five configurations listed above are summarized below and also listed on **Table 1** and depicted on **Figure 1**.

- **Configurations 1, 4 and 5** – These three configurations meet the project requirements of a friction angle ≥26.5 degrees and factors of safety ≥ 1.5 (peak) and ≥ 1.3 (residual) for a normal stress load of 250 psf. However, it should be noted that for *Configuration 4 – GCL Internal*, the displacement corresponding to a normal load of 250 psf and those required to achieve peak shear stress values are on the order of 2 in. These approximately 2-in. displacements are significantly greater than the displacement range required to reach peak stresses for the other configurations tested (0.25 in. for *Configuration 3* to 1.1 in. for *Configuration 1*). These differences in peak displacements may cause differential movement between the geosynthetics, which in turn may develop into surficial cracks on the final cover system. Specifically, at the design normal load of 250 psf, the measured GCL displacement is on the order of 1 in. Therefore, in order to reduce the risk of failure due to surficial cracks, a monitoring program should be implemented. Further, in the event that surficial cracks do indeed develop, these cracks should be immediately repaired. Also, a maintenance program to prevent surficial cracks from propagating should be implemented throughout the life of the facility to prevent excessive erosion of the upper soil layers of the final cover system.

- **Configurations 2 and 3** – As indicated on **Table 1** and depicted on **Figure 1**, these configurations do not meet the project requirements of a friction angle ≥26.5 degrees. However, assuming a maximum applied normal stress of 250 psf and considering apparent adhesion between the geosynthetics tested, the calculated total shear strength yields factors of safety above the minimum requirements.

- **Normal Stresses** – It should be emphasized that the acceptance of Configurations 2 and 3 holds true only for applications with a normal stress of 250 psf for the materials tested. Should higher normal loads be imposed on the final cover due to changes in soil cover material, derived from operation of heavy equipment during installation and maintenance activities, or from the weight of stormwater runoff protection and erosion control best management practices (BMPs), the final cover system may become unstable and experience localized failure.

- **Review Summary** – The soil and geosynthetic materials proposed for the Asarco Pond 6 Waste Repository final cover system may be used (except for the material proposed for the upper 6 in., as indicated on the 6/26/08 memorandum). However, use of the tested materials are accepted under specific conditions as indicated above and on the 6/26/08 memorandum given the steepness and length of the final cover slopes.

- **Limitations of Applicability** – The statements provided herein apply exclusively for the site conditions, design configuration and final cover materials proposed for Asarco El Paso Pond 6 Waste Repository. Should any of the conditions, configuration or materials vary from those indicated herein, a new analysis must be conducted to confirm the applicability, as required, of the new condition, configuration and materials to satisfy slope stability and soil erosion requirements.

Should you have questions or comments about this memorandum, please do not hesitate to contact us. We appreciate being of service to ASARCO on this project.

EDC/srw

Attachments

cc: Mr. Tom Klempel – ASARCO (TKlempel@asarco.com)
Mr. Kirk Gates – ENTACT Services, LLC (kgates@entact.com)
Mr. Berna Olague – **R-K** (bolague@rkci.com)

TABLE 1 - INTERFACE (DIRECT SHEAR) TESTING SUMMARY

POND 6 WASTE REPOSITORY FINAL COVER SYSTEM

ASARCO EL PASO COPPER SMELTER PLANT

R-K Project No. ASF08-102-01

July 28, 2008

Configuration	Interface	Shear Stress (psf)		Displacement (in.)	Apparent Adhesion (psf)		Friction Angle (degrees)		Factor of Safety *	
		Peak	Residual		Peak	Residual	Peak	Residual	Peak	Residual
1	Fine Grained Soil Cover vs. Geocomposite	173	154	0.3	59	3	30.1	28.6	2.45	1.67
		582	409	0.6						
		673	626	1.1						
2	Geocomposite vs. 40 mil Geomembrane	170	143	0.15	99	86	15.4	11.3	2.01	1.63
		313	232	0.2						
		408	316	0.7						
3	40 mil Geomembrane vs. GCL	196	172	0.25	61	67	24.3	19.5	2.09	1.87
		378	315	0.3						
		587	478	0.5						
4	GCL (Internal)	2133	1911	2.3	1974	1490	31.3	25.2	25.56	19.33
		2446	1259	1.85						
		2659	2318	2.2						
5	GCL vs. Intermediate Soil Cover	352	352	0.5	225	226	28.3	27.8	2.71	2.72
		669	657	0.7						
		818	807	0.7						
6	Intermediate Soil Cover (Internal)	2419			1872		37.2		24.8	
		2900								
		3614								
7	Fine Grained Soil Cover (Internal)	1757			1296		32.5		17.5	
		2707								
		2995								

* Factor of safety calculations assume normal load = 250 psf

Project Specifications: Friction Angle ≥ 26.5 °

Factor of Safety (Peak) ≥ 1.5

Factor of Safety (Residual) ≥ 1.3

R-K PROJECT NO. ASF08-102-00
July 23, 2008

INTERFACE TESTING
ASARCO POND 6 - FINAL COVER
EL PASO, TEXAS

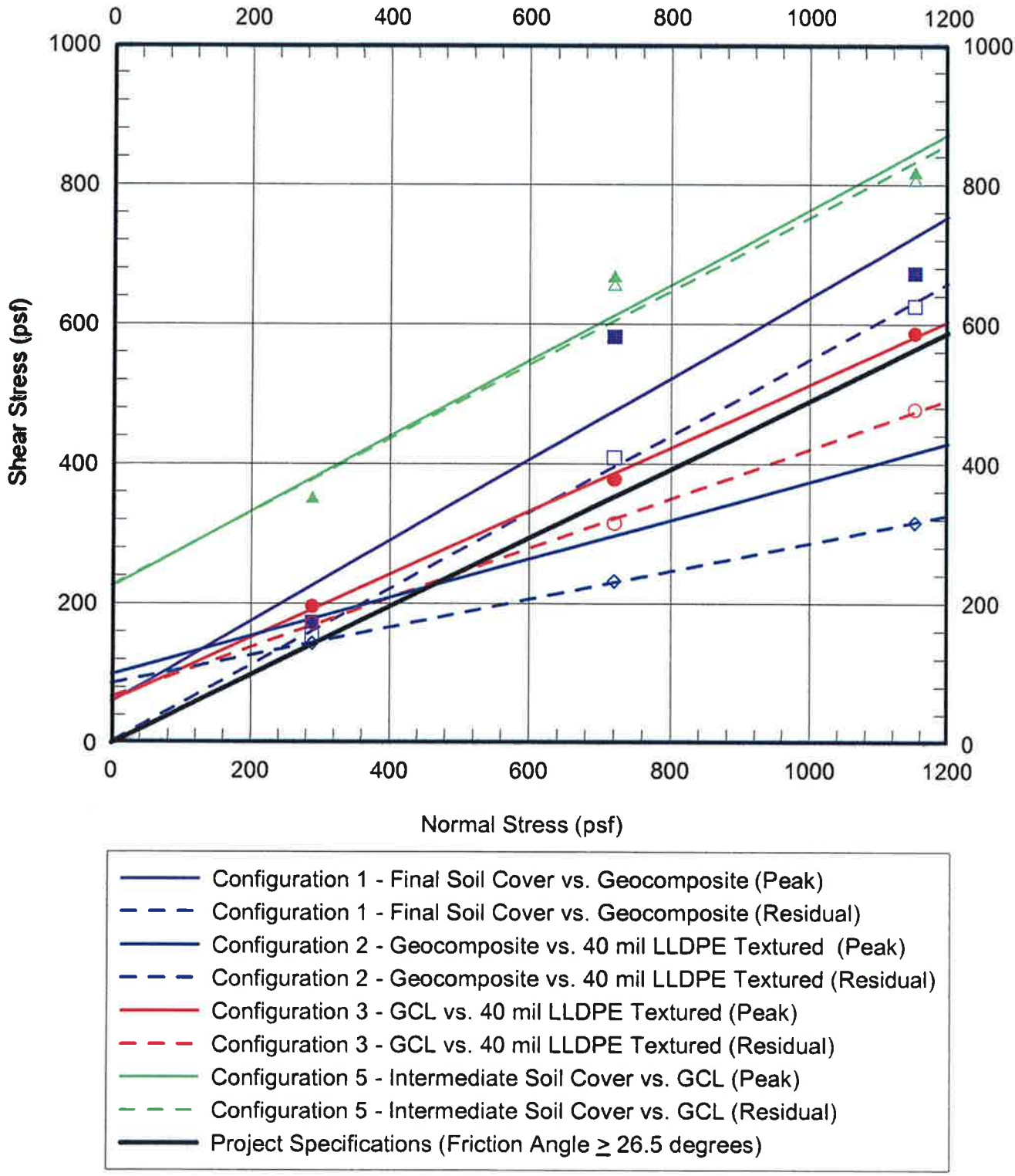


FIGURE NO. 1

FIGURE 2 - INTERFACE TESTING SUMMARY
ASARCO POND 6 WASTE REPOSITORY - FINAL COVER
EL PASO, TEXAS

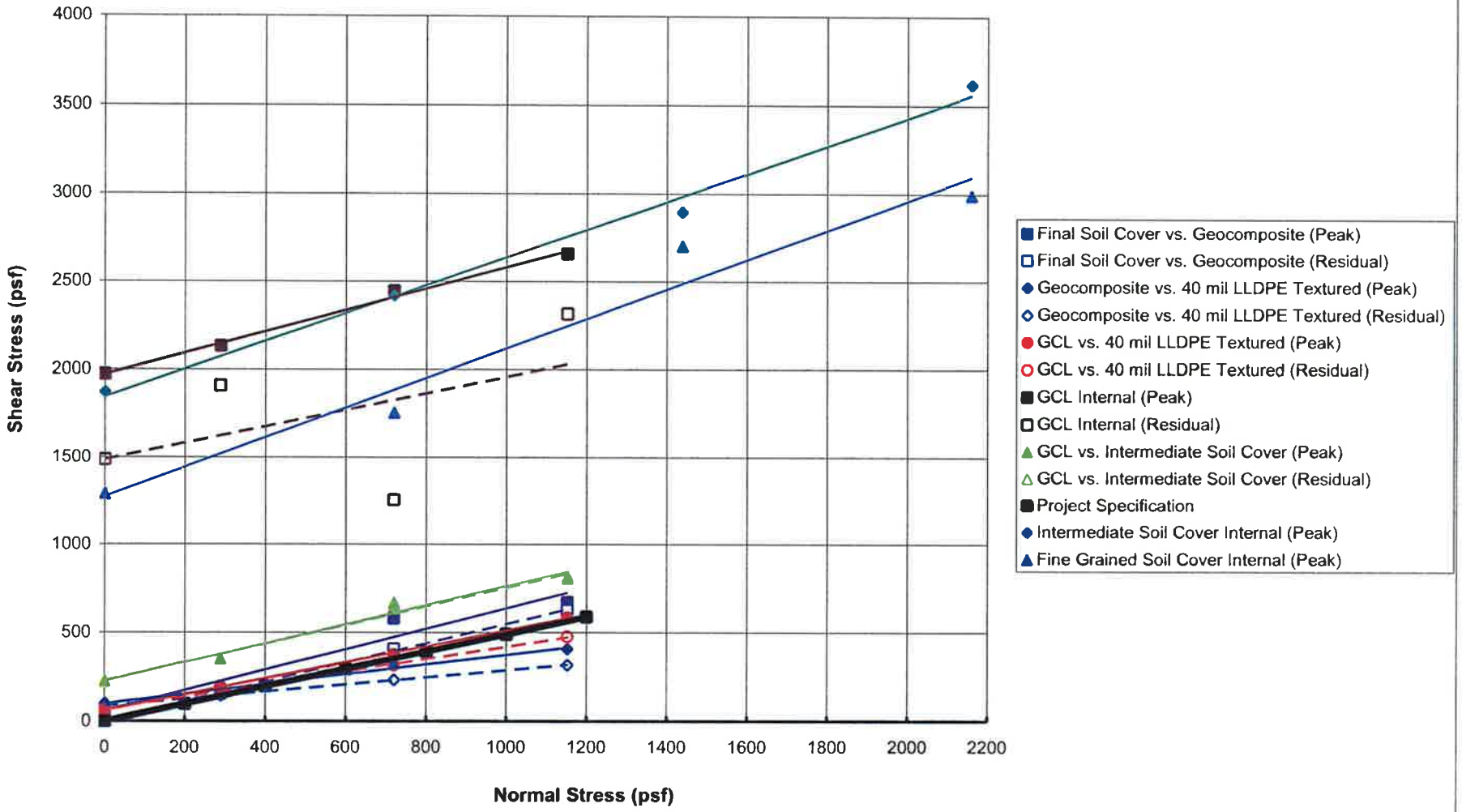
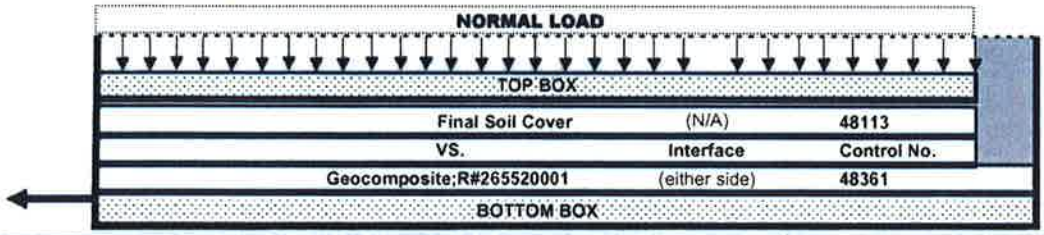


TABLE 1
CLIENT: Raba Kistner
PROJECT: Asarco

INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)
PGL Job No. G080707

Reviewed By: _____
Date: 7/24/2008

TEST CONFIGURATION 1



TEST CONDITIONS:

SAMPLE PREPARATION:

1. The TOP box contained the soil .
   Specimens were cut along machine direction to 14" x 17" for the BOTTOM box, with effective test area of 12" x 12".
2. The Maximum Dry Density (**MDD**) of the soil is **120.6** **pcf** at **14%** Optimum Moisture Content (**OMC**).
3. Soil specimen was remolded to **102.5** **pcf** ; i.e., **85.00%** of **MDD** at **13%** moisture content. forming 2 inch layer in the TOP box.
4. Specimens were secured via flat bar clamping mechanisms complete with bolts and nuts (7-pairs).

CONSOLIDATION:

1. Each set of specimen was consolidated under **flooded** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **flooded** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321 using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		Soil Moisture Content		PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		Before	After	Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	(%)	(%)	(psf)	(degrees)	(psf)	(degrees)
2.00	288	12	34	173	31	154	28
5.00	**720**	**12**	**31**	**582**	**39**	**409**	**30**
8.00	1,152	12	28	673	30	626	29
Note: N/A - Not Applicable			**COHESION (psf) :**	**59**		**3**	
			COEFFICIENT OF FRICTION :	**0.58**		**0.55**	
			FRICTION ANGLE (degrees) :	**30.1**		**28.6**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS:

1. See Figures #1 and #2
2. No tilting of the system or any abnormalities observed during and after the test.
3. Superficial abrasion on the geosynthetic contact side (typical to all loads).

Figure #1
Normal Stress/ Interface Stress

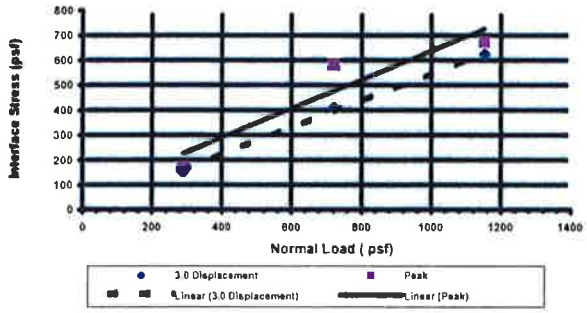
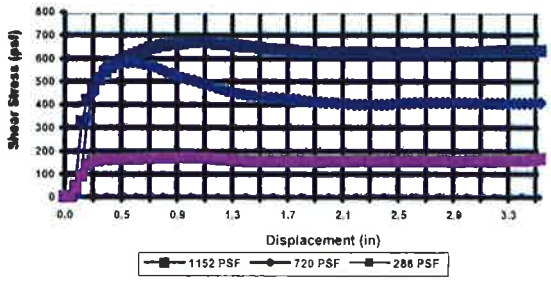


Figure #2
Shear Stress/ Displacement Curve



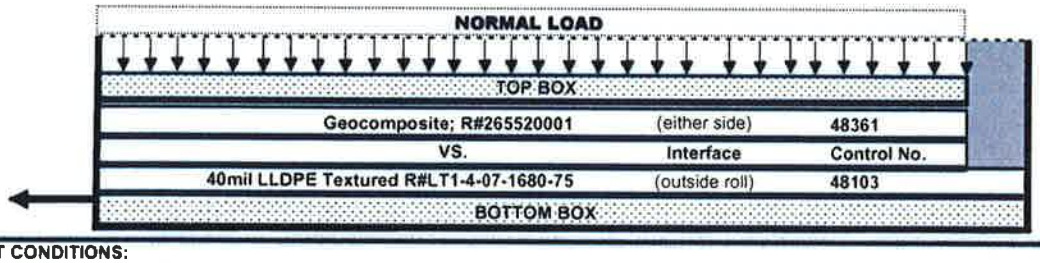
Precision Geosynthetic Laboratories

TABLE 2
CLIENT: Raba Kistner
PROJECT: Asarco

INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)
PGL Job No. G080707

Reviewed By: [signature]
Date: 7/18/2008

TEST CONFIGURATION **2**



TEST CONDITIONS:

SAMPLE PREPARATION:

1. Specimens were cut along machine direction to 14" x 19" for the upper box, and 14" x 17" for the lower box, with an effective test area of 12" x 12".
4. Specimens were secured via flat bar clamping mechanisms complete with bolts and nuts (7-pairs).

CONSOLIDATION:

1. Each set of specimen was consolidated under **flooded** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **flooded** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321 using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		Asperity Heights		PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		Before	After	Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	(mils)	(mils)	(psf)	(degrees)	(psf)	(degrees)
2.00	288	22	22	170	31	143	26
5.00	**720**	**22**	**21**	**313**	**23**	**232**	**18**
8.00	1,152	22	19	408	20	316	15
Note: N/A - Not Applicable		**COHESION (psf) :**		**99**		**86**	
		COEFFICIENT OF FRICTION :		**0.28**		**0.20**	
		FRICTION ANGLE (degrees) :		**15.4**		**11.3**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS:

1. See Figures #1 and #2
2. No tilting of the system or any abnormalities observed during and after the test.
3. Superficial abrasion on the geosynthetic interfacing sides (typical to all loads).

Figure #1
Normal Stress/ Interface Stress

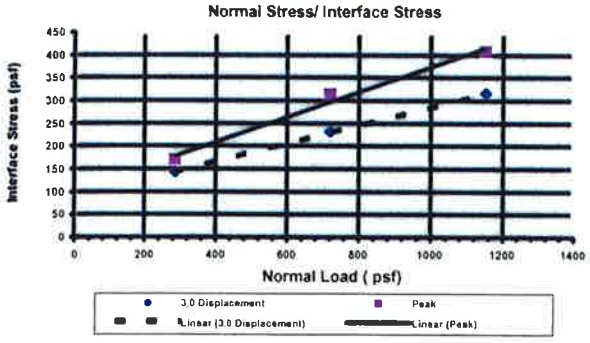
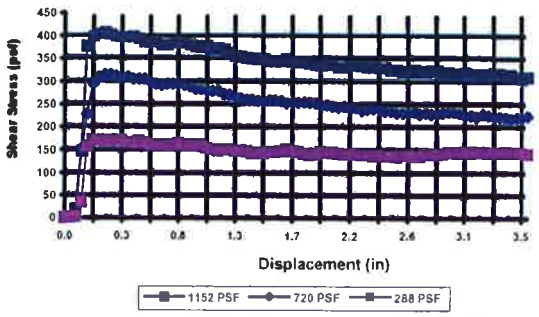


Figure #2
Shear Stress/ Displacement Curve



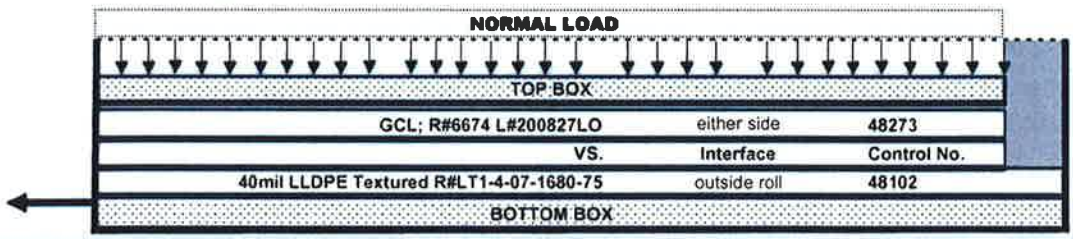
Precision Geosynthetic Laboratories

TABLE 3
CLIENT: Raba Kistner
PROJECT: Asarco

INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)
PGL Job No. G080707

Reviewed By: _____
Date: 7/15/2008

TEST CONFIGURATION 3



TEST CONDITIONS:

SAMPLE PREPARATION:

1. Specimens were cut along machine direction to 14" x 19" for the upper box, and 14" x 17" for the lower box, with an effective test area of 12" x 12".
2. Specimens were secured via flat bar clamping mechanisms complete with bolts and nuts (7-pairs).

CONSOLIDATION:

1. Each set of specimen was consolidated under **flooded** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load, and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **flooded** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321 using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		Moisture Content		Asperity Heights		PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		Before	After	Before	After	Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	(%)	(%)	(mils)	(mils)	(psf)	(degrees)	(psf)	(degrees)
2.00	288	20	143	22	22	196	34	172	31
5.00	**720**	**20**	**126**	**22**	**20**	**378**	**28**	**315**	**24**
8.00	1,152	20	115	23	21	587	27	478	23
Note: N/A - Not Applicable		**COHESION (psf) :**				**61**		**67**	
		COEFFICIENT OF FRICTION :				**0.45**		**0.35**	
		FRICTION ANGLE (degrees) :				**24.3**		**19.5**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS:

1. See Figures #1 and #2
2. No tilting of the system or any abnormalities observed during and after the test.
3. Superficial abrasion on the geosynthetic interfacing sides (typical to all loads).

Figure #1
Normal Stress/ Interface Stress

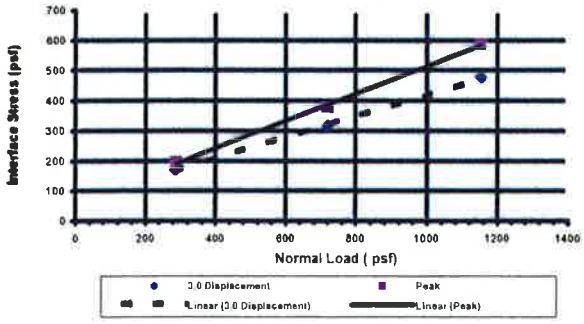
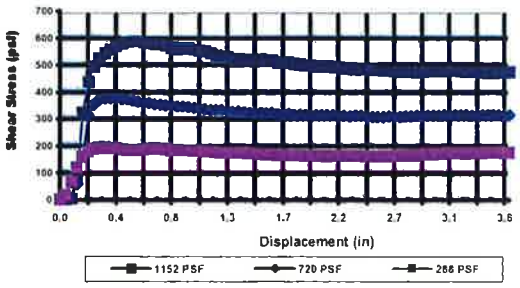


Figure #2
Shear Stress/ Displacement Curve



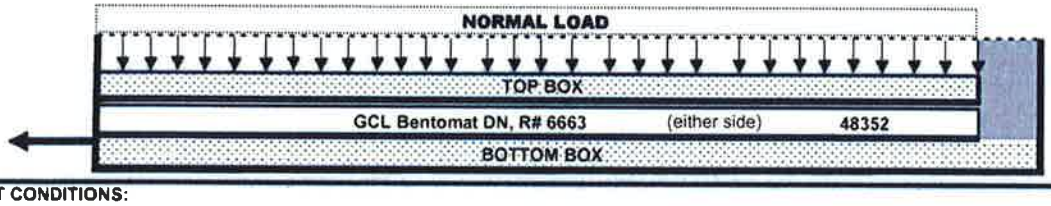
Precision Geosynthetic Laboratories

TABLE 4
CLIENT: Raba Kistner
PROJECT: Asarco LF

INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)
PGL Job No. G080707

Reviewed By: [signature]
Date: 7/18/2008

TEST CONFIGURATION 4



TEST CONDITIONS:

SAMPLE PREPARATION:

1. Specimens were cut along machine direction to 14" x 19" for the upper box, and 14" x 17" for the lower box, with an effective test area of 12" x 12".
2. Both textile sides of the GCL are fastened in a marine board via mending plates and securely positioned in the shear box.

CONSOLIDATION:

1. Each set of specimen was consolidated under **saturated** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **saturated** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321 using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		GCL Moisture Content		PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		Before	After	Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	(%)	(%)	(psf)	(degrees)	(psf)	(degrees)
2.00	288	17	144	2,133	82	1,911	81
5.00	**720**	**17**	**130**	**2,446**	**74**	**1,259**	**60**
8.00	1,152	17	123	2,659	67	2,318	64
Note: N/A - Not Applicable			**COHESION (psf) :**	**1974**		**1490**	
			COEFFICIENT OF FRICTION :	**0.61**		**0.47**	
			FRICTION ANGLE (degrees) :	**31.3**		**25.2**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS:

1. Refer to Figures 1 and 2
2. No abnormalities observed during and after the test.

Figure #1
Normal Stress/ Interface Stress

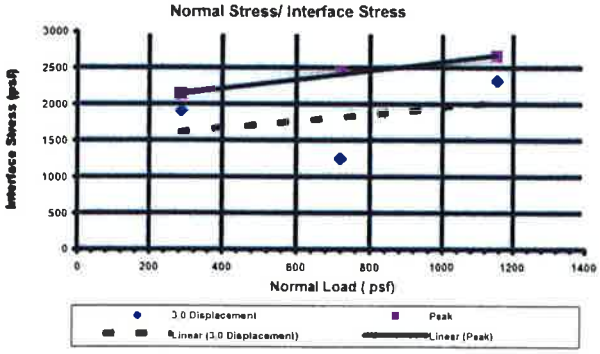


Figure #2
Shear Stress/ Displacement Curve

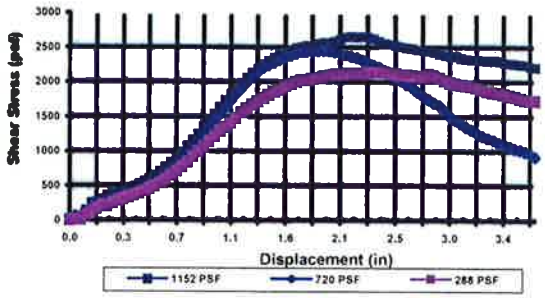
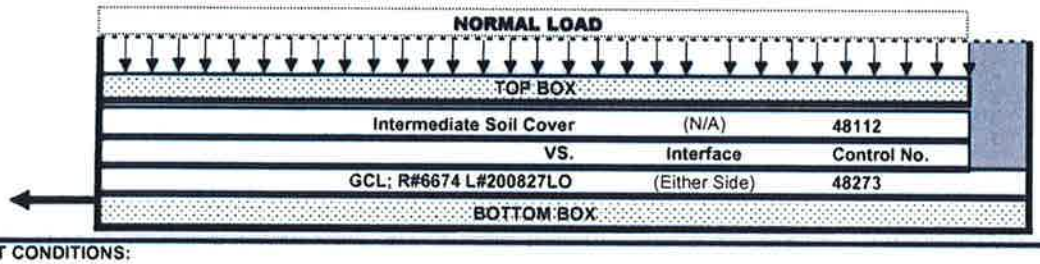


TABLE 5
CLIENT: Raba Kistner
PROJECT: Asarco

INTERFACE SHEAR TEST RESULT (ASTM D5321/6243)
PGL Job No. G080707

Reviewed By: _____
Date: 7/14/2008

TEST CONFIGURATION **5**



TEST CONDITIONS:

SAMPLE PREPARATION:

1. The TOP box contained the soil .
   Specimens were cut along machine direction to 14" x 17" for the BOTTOM box, with effective test area of 12" x 12".
2. The Maximum Dry Density (**MDD**) of the soil is **127** **pcf** at **10%** Optimum Moisture Content (**OMC**).
3. Soil specimen was remolded to **114.3** **pcf** ; i.e., **90.00%** of **MDD** at **9%** moisture content. forming 2 inch layer in the TOP box.
4. Specimens were secured via flat bar clamping mechanisms complete with bolts and nuts (7-pairs).

CONSOLIDATION:

1. Each set of specimen was consolidated under **flooded** condition for **24 hours** @ normal load before shearing.
2. Normal loads were applied using **bladder** for the highest load, **dead weight** for the medium load and **dead weight** for the lowest load.

SHEAR TEST:

1. Shear test was conducted @ **0.040** in/ min.
2. Sheared @ minimum **3.0** inch horizontal displacement.
3. The test specimens were sheared at **flooded** condition .
4. Test were performed in general accordance with ASTM D6243 / ASTM D5321 using Brainard-Kilman LG-112 Direct Shear machine with effective test area of 12 in X 12 in.

TEST RESULTS:

Normal Stresses Applied		Moisture Content (%)				PEAK STRENGTH		POST- PEAK STRENGTH AT 3.0 INCHES	
		GCL		Soil		Shear Stress	Secant Angle	Shear Stress	Secant Angle
(psi)	(psf)	Before	After	Before	After	(psf)	(degrees)	(psf)	(degrees)
2.00	288	2	112	9	16	352	51	352	51
5.00	**720**	**2**	**115**	**9**	**16**	**669**	**43**	**657**	**42**
8.00	1,152	2	109	9	14	818	35	807	35
Note: N/A - Not Applicable		**COHESION (psf) :**				**225**		**226**	
		COEFFICIENT OF FRICTION :				**0.54**		**0.53**	
		FRICTION ANGLE (degrees) :				**28.3**		**27.8**	

NOTE: The friction angles and cohesion results given here are based on mathematically determined best fit line.

OBSERVATIONS:

1. See Figures #1 and #2
2. No tilting of the system or any abnormalities observed during and after the test.
3. Superficial abrasion on the geosynthetic contact side (typical to all loads).

Figure #1
Normal Stress/ Interface Stress

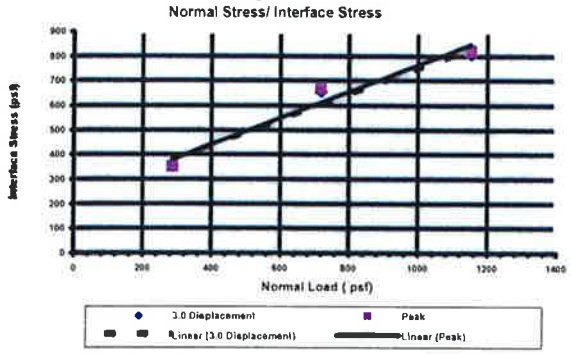
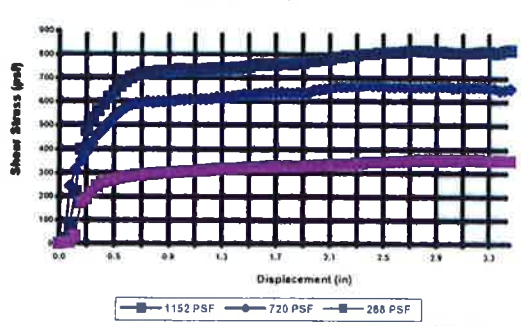


Figure #2
Shear Stress/ Displacement Curve



Precision Geosynthetic Laboratories

Precision Geosynthetic Laboratories

March 31, 2008

Eduardo Choquis
RABA-KISTNER CONSULTANTS
3602 Westchase Drive,
Houston, Texas 77042

RE**:** ***Asarco Remedial Waste Repository***

Dear Mr. Choquis:

Thank you for consulting Precision Geosynthetic Laboratories for your material testing needs.

Enclosed is the ***final*** laboratory report for the testing of one (1) Bentomat DN GCL sample received on March 19, 2008.

It shall be noted that the sample tested is believed to be a true representative of the material produced under the designation herein stated. In addition, the attached laboratory test results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate tests methods hereby employed are based on the current and accepted industry practices. Precision Geosynthetic Laboratories neither accepts responsibility for nor makes claims to the intended final use and purpose of the material.

By accepting the data and results presented on this report, the Client agrees to limit the liability of Precision Geosynthetic Laboratories from Client and all other parties for claims arising out of the use of this data to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless Precision Geosynthetic Laboratories from and against all liabilities in excess of the aforementioned limit.

The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself.

It is a policy of the company to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Failed seam samples are kept for two (2) years and good seam samples are disposed of after two (2) weeks. Similarly, retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at longer time, please advise us in writing.

Should you have any questions or if we may be of further service to you, please do not hesitate to contact us at telephone number: 800-522-4599.

Sincerely,

PRECISION GEOSYNTHETIC LABORATORIES

Cora B. Queja
Vice President
MM

Enclosure: (Job No. G080156)

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

Precision Geosynthetic Laboratories

CLIENT: RABA-KISTNER CONSULTANTS
PROJECT NAME: Asarco Remedial Waste Repository

VERIFICATION OF MATERIAL PROPERTIES
(PGL Job No. G080156)

MATERIAL DESCRIPTION: Bentomat DN GCL

SAMPLED BY: PGL @ Cetco, WY

DATE RECEIVED: March 19, 2008 **DATE REPORTED:** March 31, 2008

SAMPLE IDENTIFICATIONS:

SAMPLE ID	PRECISION CONTROL NUMBER
R#1650 L#200811LO	45610

TESTS REQUIRED:

TEST METHOD	DESCRIPTION
ASTM D5993	Mass/Unit Area @ 0%MC
ASTM D5084	Hydraulic Conductivity

TEST CONDITIONS: The sample was conditioned for a minimum one hour in the laboratory at 22 ± 2°C (71.6 ± 3.6°F) and at 60 ± 10% relative humidity prior to test.

TEST RESULTS:

The test results are summarized in Table 1. The units in which the data are reported are included on this table.

PRECISION GEOSYNTHETIC LABORATORIES

GAI-LAP
Initials: #: 013
Date: 3/31/2008

Cora B. Queja
Vice President

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

TABLE 1.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS

PROJECT: Asarco Remedial Waste Repository

Date Received: **3/19/2008**
Date Reported: **3/31/2008**
Client Sample ID: **R#1650 L#200811LO**
Material Description: **Bentomat DN GCL**

QC'd By: _____
PGL Job No.: **G080156**
PGL Control No.: **45610**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5084	Hydraulic Conductivity (cm./ sec.)															
	Initial Specimen Size: 4" dia Initial Moisture Content of the GCL: 19.7 %															
	Effective Consolidation Stress: 5 psi, Final MC: 143.5%															
		2.4E-09										**2.4E-09**	N/A			**<5x10-9**
ASTM D5993	Mass per Unit Area of the Clay (lbs/ ft.^{2}) @ 0% MC															
	Specimen Size: 4" x 8" Die Cut															
	Drying Time/ Temp: 110+/- 5^0 C for 16 hrs using thermostatically controlled oven.															
		1.12	**1.00**	**1.02**	**1.01**	**0.99**						**1.03**	**0.05**	**0.99**	**1.12**	**0.75 min**
	Mass per Unit area of the GCL (lbs/ ft^2) @					**0**	**% MC**									
		1.21	**1.08**	**1.10**	**1.09**	**1.07**						**1.11**	**0.05**	**1.07**	**1.21**	
	Moisture Content of the Clay as received (percent)															
		14.0	**16.0**	**15.6**	**16.3**	**16.1**						**15.6**	**0.9**	**14.0**	**16.3**	

MD-Machine Direction
TD-Transverse Direction
DC#1982 Record#263

Precision Geosynthetic Laboratories

Precision Geosynthetic Laboratories

March 31, 2008

Eduardo Choquis
RABA-KISTNER CONSULTANTS
3602 Westchase Drive,
Houston, Texas 77042

RE**:** ***Asarco Remedial Waste Repository***

Dear Mr. Choquis:

Thank you for consulting Precision Geosynthetic Laboratories for your material testing needs.

Enclosed is the ***final*** laboratory report for the testing of one (1) Bentomat DN GCL sample received on March 19, 2008.

It shall be noted that the sample tested is believed to be a true representative of the material produced under the designation herein stated. In addition, the attached laboratory test results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate tests methods hereby employed are based on the current and accepted industry practices. Precision Geosynthetic Laboratories neither accepts responsibility for nor makes claims to the intended final use and purpose of the material.

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The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself.

It is a policy of the company to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Failed seam samples are kept for two (2) years and good seam samples are disposed of after two (2) weeks. Similarly, retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at longer time, please advise us in writing.

Should you have any questions or if we may be of further service to you, please do not hesitate to contact us at telephone number: 800-522-4599.

Sincerely,

PRECISION GEOSYNTHETIC LABORATORIES

Cora B. Queja
Vice President
MM

Enclosure: (Job No. G080230)

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

Precision Geosynthetic Laboratories

CLIENT: RABA-KISTNER CONSULTANTS
PROJECT NAME: Asarco Remedial Waste Repository

VERIFICATION OF MATERIAL PROPERTIES
(PGL Job No. G080230)

MATERIAL DESCRIPTION: Bentomat DN GCL

SAMPLED BY: PGL @ Cetco, WY

DATE RECEIVED: March 19, 2008 **DATE REPORTED:** March 31, 2008

SAMPLE IDENTIFICATIONS:

SAMPLE ID	PRECISION CONTROL NUMBER
R#1676 L#200811LO	45610-A

TESTS REQUIRED:

TEST METHOD	DESCRIPTION
ASTM D5993	Mass/Unit Area @ 0%MC
ASTM D5084	Hydraulic Conductivity

TEST CONDITIONS: The sample was conditioned for a minimum one hour in the laboratory at 22 ± 2°C (71.6 ± 3.6°F) and at 60 ± 10% relative humidity prior to test.

TEST RESULTS:

The test results are summarized in Table 1. The units in which the data are reported are included on this table.

PRECISION GEOSYNTHETIC LABORATORIES

GAI-LAP
Initials: #: 013
Date: 3/31/2008

Cora B. Queja
Vice President

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

TABLE 1.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS

PROJECT: Asarco Remedial Waste Repository

Date Received: **3/19/2008**
Date Reported: **3/31/2008**
Client Sample ID: **R#1676 L#200811LO**
Material Description: **Bentomat DN GCL**

QC'd By: _____
PGL Job No.: **G080230**
PGL Control No.: **45610-A**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5084	Hydraulic Conductivity (cm./ sec.)															
	Initial Specimen Size: 4" dia Initial Moisture Content of the GCL: 19.7 %															
	Effective Consolidation Stress: 5 psi, Final MC: 143.5%															
		3.9E-09										**3.9E-09**	N/A			**<5x10-9**
ASTM D5993	Mass per Unit Area of the Clay (lbs/ ft.^{2}) @ 0% MC															
	Specimen Size: 4" x 8" Die Cut															
	Drying Time/ Temp: 110+/- 5^0 C for 16 hrs using thermostatically controlled oven.															
		1.06	**1.00**	**1.01**	**1.02**	**1.03**						**1.02**	**0.02**	**1.00**	**1.06**	**0.75 min**
	Mass per Unit area of the GCL (lbs/ ft^2) @					**0**	**% MC**									
		1.14	**1.08**	**1.09**	**1.10**	**1.11**						**1.10**	**0.02**	**1.08**	**1.14**	
	Moisture Content of the Clay as received (percent)															
		19.0	**22.2**	**20.7**	**18.4**	**18.9**						**19.8**	**1.6**	**18.4**	**22.2**	

MD-Machine Direction
TD-Transverse Direction
DC#1982 Record#263

Precision Geosynthetic Laboratories

July 14, 2008

Eduardo Choquis
RABA-KISTNER CONSULTANTS
3602 Westchase Drive,
Houston, Texas 77042

RE: ***Asarco Remedial Waste Repository***

Dear Mr. Choquis:

Thank you for consulting Precision Geosynthetic Laboratories for your material testing needs.

Enclosed is the ***final*** laboratory report for the testing of one (1) Bentomat DN GCL sample received on July 8, 2008.

It shall be noted that the samples tested are believed to be true representatives of the material produced under the designation herein stated. In addition, the attached laboratory test results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate tests methods hereby employed are based on the current and accepted industry practices. Precision Geosynthetic Laboratories neither accepts responsibility for nor makes claims to the intended final use and purpose of the material.

By accepting the data and results presented on this report, the Client agrees to limit the liability of Precision Geosynthetic Laboratories from Client and all other parties for claims arising out of the use of this data to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless Precision Geosynthetic Laboratories from and against all liabilities in excess of the aforementioned limit.

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Should you have any questions or if we may be of further service to you, please do not hesitate to contact us at telephone number: 800-522-4599.

Sincerely,

PRECISION GEOSYNTHETIC LABORATORIES

Carmelo V. Zantua
Technical/Laboratory Director

Enclosure: (Job No. G080736)

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

Precision Geosynthetic Laboratories

CLIENT: RABA-KISTNER CONSULTANTS
PROJECT NAME: Asarco Remedial Waste Repository

VERIFICATION OF MATERIAL PROPERTIES
(PGL Job No. G080736)

MATERIAL DESCRIPTION: Bentomat DN GCL

SAMPLED BY: PGL @ Cetco, WY

DATE RECEIVED: July 8, 2008 **DATE REPORTED:** July 14, 2008

SAMPLE IDENTIFICATIONS:

SAMPLE ID	PRECISION CONTROL NUMBER
R#6675 L#200827LO	48274

TESTS REQUIRED:

TEST METHOD	DESCRIPTION
ASTM D5993	Mass/Unit Area @ 0%MC
ASTM D5084	Hydraulic Conductivity

TEST CONDITIONS: The sample was conditioned for a minimum one hour in the laboratory at 22 ± 2°C (71.6 ± 3.6°F) and at 60 ± 10% relative humidity prior to test.

TEST RESULTS:

The test results are summarized in Table 1. The units in which the data are reported are included on this table.

PRECISION GEOSYNTHETIC LABORATORIES

GAI-LAP

Initial: CVZ #:0.13

DATE: 07/14/2008

Carmelo V. Zantua
Technical/Laboratory Director

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

TABLE 1.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS

PROJECT: Asarco Remedial Waste Repository

Date Received: **7/8/2008**
Date Reported: **7/14/2008**
Client Sample ID: **6675 L#200827LO**
Material Description: **Bentomat DN GCL**

QC'd By: _____
PGL Job No.: **G080736**
PGL Control No.: **48274**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5084	Hydraulic Conductivity (cm./ sec.)															
	Initial Specimen Size: 4" dia Initial Moisture Content of the GCL: 25.4 %															
	Effective Consolidation Stress: 5 psi, Final MC: 177.6 %															
		1.9E-09										**1.9E-09**	N/A			**<5x10-9**
ASTM D5993	Mass per Unit Area of the Clay (lbs/ ft.^{2}) @ 0% MC															
	Specimen Size: 4" x 8" Die Cut															
	Drying Time/ Temp: 110+/- 5^0 C for 16 hrs using thermostatically controlled oven.															
		1.15	**1.17**	**1.11**	**1.14**	**1.10**						**1.13**	**0.03**	**1.10**	**1.17**	**0.75 min**
	Mass per Unit area of the GCL (lbs/ ft^2) @					**0**	**% MC**									
		1.24	**1.25**	**1.19**	**1.22**	**1.18**						**1.21**	**0.03**	**1.18**	**1.25**	
	Moisture Content of the Clay as received (percent)															
		14.9	**15.4**	**14.2**	**14.5**	**14.3**						**14.6**	**0.5**	**14.2**	**15.4**	

MD-Machine Direction
TD-Transverse Direction
DC#1982 Record#263

Precision Geosynthetic Laboratories

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.7 Geocomposite Factory Certifications, Landfill Cells 1 and 2

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA
888-765-9359 972-337-7269 Fax 972-337-7269

CERTIFICATION DOCUMENTS

To: American Environmental Group
3600 Brecksville Road
Suite 100
Richfield, OH 44286
Attn: Tom Sparks
Email: tsparks@aegl.net
Number of pages including cover: 6

Date: 5/30/2006
Poly-Flex Proj # : 260019
Customer PO: 306048A
Project Name: ASARCO El Paso Plant
Order #: 765649

Departure Date: 5/26/2006
Destination: El Paso, TX
Carrier:

Trip No: 255016

Additional Notes:

Distribution of Documents:

Shipment Inspection Sheet: 1
Roll Certification: 4
Resin Certification:
Other:

Attached please find documents for the above referenced shipment. Please let us know if you have any questions.

Sincerely,

Russell Searcey

Russell Searcey
1-888-765-9359 ext 7269

CERTIFICATION SHEET

DATE: May 30, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019
TRIP NO: 255016

ORDER NO: 765649
CERTIFIED BY:

						*TRANSMISSIVITY(MD)	PLY ADHESION	
						D4716	D7005	
							TOP	BOTTOM
						$x10^{-3}$ m^2/s	lb/in	lb/in
						0.2		1.0
COMPOSITE ROLL NUMBER			GEO-NET ROLL NUMBER		GEOTEXTILE TOP	GEOTEXTILE BOTTOM		
C1-8-2-06	22-250		GNC-200-05	3633	0	1294768		
C1-8-2-06	26-250		GNC-200-06	6	0	1294844		
C1-8-2-06	368-250		GNC-200-06	741	0	2331453		
C1-8-2-06	370-250		GNC-200-06	696	0	1314955		
C1-8-2-06	372-250		GNC-200-06	734	0	1314944		
C1-8-2-06	373-250		GNC-200-06	730	0	2331472		
C1-8-2-06	376-250		GNC-200-06	526	0	2331468		
C1-8-2-06	377-250		GNC-200-06	549	0	2331468		
C1-8-2-06	378-250		GNC-200-06	549	0	2331468		
C1-8-2-06	379-250		GNC-200-06	644	0	1303615		
C1-8-2-06	380-250		GNC-200-06	644	0	1303615	0.9	5.6
C1-8-2-06	381-250		GNC-200-06	538	0	1314930		
C1-8-2-06	382-250		GNC-200-06	538	0	1314930		
C1-8-2-06	383-250		GNC-200-06	703	0	1303459		
C1-8-2-06	384-250		GNC-200-06	703	0	1303459		
C1-8-2-06	385-250		GNC-200-06	488	0	1303621		
C1-8-2-06	386-250		GNC-200-06	488	0	1303621		

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 30, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019
ORDER NO: 765649
TRIP NO: 255016
CERTIFIED BY:

TEST DESCRIPTION					*TRANSMISSIVITY(MD)*	*PLY ADHESION*	
ASTM METHOD					*D4716*	*D7005*	
(modifications)						*TOP*	*BOTTOM*
UNITS					*$x10^{-3}$ m^2/s*	*lb/in*	*lb/in*
SPECIFICATION					*0.2*		*1.0*
COMPOSITE ROLL NUMBER			*GEO-NET ROLL NUMBER*	*GEOTEXTILE TOP*	*GEOTEXTILE BOTTOM*		
C1-8-2-06	387-250		GNC-200-06 489	0	1314948		
C1-8-2-06	388-250		GNC-200-06 489	0	1314948		
C1-8-2-06	389-250		GNC-200-06 490	0	1314948		
C1-8-2-06	390-250		GNC-200-06 490	0	1314942		
C1-8-2-06	391-250		GNC-200-06 539	0	1314942		
C1-8-2-06	392-250		GNC-200-06 539	0	1313251		
C1-8-2-06	393-250		GNC-200-06 485	0	1313251		

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 30, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 765649

TRIP NO: 255016

CERTIFIED BY:

TEST DESCRIPTION		THICKNESS	CARBON BLACK	PEAK TENSILE STRENGTH (MD)	*TRANSMISSIVITY(MD)	DENSITY
ASTM METHOD		D5199	D1603	D5035	D4716	D1505
(modifications)		avg	min			
UNITS		mils	%	lb/in	$x10^{-3}$ sq. m / s	g/cc
SPECIFICATION		200	1.5 - 3.0	45	1	0.940
ROLL NUMBER						
GNC-200-06 6-520		200	2.1	66		0.948
GNC-200-06 485-520		200	2.5	55		0.953
GNC-200-06 488-520		200	2.5	55		0.953
GNC-200-06 489-520		200	2.5	55		0.953
GNC-200-06 490-520		200	2.6	59	2.04	0.952
GNC-200-06 526-520		200	2.5	60		0.952
GNC-200-06 538-520		200	2.4	59		0.954
GNC-200-06 539-520		200	2.4	59		0.954
GNC-200-06 549-520		200	2.4	66		0.950
GNC-200-06 644-520		200	2.8	59		0.953
GNC-200-06 696-520		200	2.6	52		0.952
GNC-200-06 703-520		200	2.7	50		0.953
GNC-200-06 730-520		200	2.2	54	2.32	0.951
GNC-200-06 734-520		200	2.2	54		0.951
GNC-200-06 741-520		200	2.2	62		0.951
GNC-200-05 3633-520		200	2.4	63		0.950

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 30, 2006

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 765649

TRIP NO: 255016

CERTIFIED BY:

TEST DESCRIPTION		Product	Unit Weight	Grab Tensile	Puncture	AOS	UV Stability
ASTM METHOD			D5261	D4632	D4833	D4751	D4355
(modifications)							
UNITS			oz/yd^2	lb	lb	sieve	%
SPECIFICATION			8	200	120	80	70
Textile Roll Number							
MF08	1294768	GTM-08-0600	9.24	299	190	100	80
MF08	1294844	GTM-08-0600	9.94	283	185	100	80
MF08	1303459	GTM-08-0600	9.08	270	187	140	80
MF08	1303615	GTM-08-0600	9.40	249	173	100	80
MF08	1303621	GTM-08-0600	9.26	258	157	100	80
MF08	1313251	GTM-08-0600	9.34	269	176	140	80
MF08	1314930	GTM-08-0600	8.80	280	157	120	80
MF08	1314942	GTM-08-0600	9.38	275	164	120	80
MF08	1314944	GTM-08-0600	9.38	275	164	120	80
MF08	1314948	GTM-08-0600	9.38	275	164	120	80
MF08	1314955	GTM-08-0600	8.88	282	160	120	80
MF08	2331453	GTM-08-0600	9.26	254	152	100	80
MF08	2331468	GTM-08-0600	9.34	271	169	100	80
MF08	2331472	GTM-08-0600	9.46	276	174	100	80

Poly-Flex

Material Shipment Roll List

Tractor # _____ Trailer # _____ Date: 26-May-06 TRIP 255016

Drop #	1	Drop #		Drop #		Drop #	
Poly-Flex #	260019(765649)	Poly-Flex #		Poly-Flex #		Poly-Flex #	
Customer:	Asarco El Paso	Customer:		Customer:		Customer:	
Destination:	El Paso,TX	Destination:		Destination:		Destination:	
Carrier:	P/A	Carrier:		Carrier:		Carrier:	

	Net	Roll Number	Weight	Roll Description
1	200 Mil	C1-8-2-06- 0022- 250	835	13.5' X 250' X 08oZ Sng
2	200 Mil	C1-8-2-06- 0026- 250	865	13.5' X 250' X 08oZ Sng
3	200 Mil	C1-8-2-06- 0368- 250	870	13.5' X 250' X 08oZ Sng
4	200 Mil	C1-8-2-06- 0370- 250	870	13.5' X 250' X 08oZ Sng
5	200 Mil	C1-8-2-06- 0372- 250	875	13.5' X 250' X 08oZ Sng
6	200 Mil	C1-8-2-06- 0373- 250	880	13.5' X 250' X 08oZ Sng
7	200 Mil	C1-8-2-06- 0376- 250	875	13.5' X 250' X 08oZ Sng
8	200 Mil	C1-8-2-06- 0377- 250	799	13.5' X 250' X 08oZ Sng
9	200 Mil	C1-8-2-06- 0378- 250	800	13.5' X 250' X 08oZ Sng
10	200 Mil	C1-8-2-06- 0379- 250	835	13.5' X 250' X 08oZ Sng
11	200 Mil	C1-8-2-06- 0380- 250	825	13.5' X 250' X 08oZ Sng
12	200 Mil	C1-8-2-06- 0381- 250	865	13.5' X 250' X 08oZ Sng
13	200 Mil	C1-8-2-06- 0382- 250	820	13.5' X 250' X 08oZ Sng
14	200 Mil	C1-8-2-06- 0383- 250	870	13.5' X 250' X 08oZ Sng
15	200 Mil	C1-8-2-06- 0384- 250	850	13.5' X 250' X 08oZ Sng
16	200 Mil	C1-8-2-06- 0385- 250	840	13.5' X 250' X 08oZ Sng
17	200 Mil	C1-8-2-06- 0386- 250	835	13.5' X 250' X 08oZ Sng
18	200 Mil	C1-8-2-06- 0387- 250	845	13.5' X 250' X 08oZ Sng
19	200 Mil	C1-8-2-06- 0388- 250	855	13.5' X 250' X 08oZ Sng
20	200 Mil	C1-8-2-06- 0389- 250	840	13.5' X 250' X 08oZ Sng
21	200 Mil	C1-8-2-06- 0390- 250	875	13.5' X 250' X 08oZ Sng
22	200 Mil	C1-8-2-06- 0391- 250	875	13.5' X 250' X 08oZ Sng
23	200 Mil	C1-8-2-06- 0392- 250	850	13.5' X 250' X 08oZ Sng
24	200 Mil	C1-8-2-06- 0393- 250	830	13.5' X 250' X 08oZ Sng
25	PF-Ties	5 Cases	12	PF - Net / Composite Ties
26				
27			**20,391**	
28				

I certify that all loading requirements and roll conditions were inspected and approved.

C.E.M.
Truck Loader

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA
888-765-9359 972-337-7269 Fax 972-337-7269

CERTIFICATION DOCUMENTS

To: American Environmental Group
3600 Brecksville Road
Suite 100
Richfield, OH 44286
Attn: Tom Sparks
Email: tsparks@aegl.net
Number of pages including cover: 6

Date: 5/26/2006
Poly-Flex Proj # : 260019
Customer PO: 306048A
Project Name: ASARCO El Paso Plant
Order #: 765651

Departure Date: 5/25/2006
Destination: El Paso, TX
Carrier:

Trip No: 255017

Additional Notes:

Distribution of Documents:

Shipment Inspection Sheet: 1
Roll Certification: 4
Resin Certification:
Other:

Attached please find documents for the above referenced shipment. Please let us know if you have any questions.

Sincerely,

Russell Searcey

Russell Searcey
1-888-765-9359 ext 7269

CERTIFICATION SHEET

DATE: May 26, 2005

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019
TRIP NO: 255017

ORDER NO: 765651
CERTIFIED BY:

						*TRANSMISSIVITY(MD)	PLY ADHESION	
						D4716	D7005	
							TOP	BOTTOM
						$x10^{-3}$ m^2/s	lb/in	lb/in
						0.2		1.0
COMPOSITE ROLL NUMBER			GEO-NET ROLL NUMBER		GEOTEXTILE TOP	GEOTEXTILE BOTTOM		
C1-8-2-06	110-250		GNC-200-06	441	0	1313322	1.26		5.0
C1-8-2-06	111-250		GNC-200-06	441	0	1313322			
C1-8-2-06	112-250		GNC-200-06	444	0	1313322			
C1-8-2-06	113-250		GNC-200-06	444	0	1313441			
C1-8-2-06	141-250		GNC-200-05	2889	0	1313191			
C1-8-2-06	145-250		GNC-200-05	2893	0	1313198			
C1-8-2-06	147-250		GNC-200-05	2896	0	1313188			
C1-8-2-06	149-250		GNC-200-05	2891	0	1313380			
C1-8-2-06	153-250		GNC-200-05	2899	0	1313176			
C1-8-2-06	155-250		GNC-200-05	2894	0	1313186			
C1-8-2-06	160-250		GNC-200-06	427	0	1313189	0.97		4.0
C1-8-2-06	163-250		GNC-200-06	446	0	1313174			
C1-8-2-06	166-250		GNC-200-06	437	0	1313194			
C1-8-2-06	169-250		GNC-200-05	2900	0	1313175			
C1-8-2-06	394-250		GNC-200-06	485	0	1313163			
C1-8-2-06	395-250		GNC-200-06	487	0	1313163			
C1-8-2-06	396-250		GNC-200-06	487	0	1314960			

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 26, 2005

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 765651

TRIP NO: 255017

CERTIFIED BY:

					*TRANSMISSIVITY(MD)	PLY ADHESION	
					D4716	D7005	
						TOP	BOTTOM
					$x10^{-3}$ m^2/s	lb/in	lb/in
					0.2		1.0
COMPOSITE ROLL NUMBER		GEO-NET ROLL NUMBER		GEOTEXTILE TOP	GEOTEXTILE BOTTOM		
C1-8-2-06	397-250	GNC-200-06	486	0	1314960		
C1-8-2-06	398-250	GNC-200-06	482	0	1303505		
C1-8-2-06	399-250	GNC-200-06	482	0	1303505		
C1-8-2-06	400-250	GNC-200-06	723	0	1314947	0.75	4.3
C1-8-2-06	401-250	GNC-200-06	723	0	1314947		
C1-8-2-06	402-250	GNC-200-06	629	0	1314947		
C1-8-2-06	403-250	GNC-200-06	629	0	1303730		

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 26, 2005

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019
ORDER NO: 765651
TRIP NO: 255017
CERTIFIED BY:

TEST DESCRIPTION	THICKNESS	CARBON BLACK	PEAK TENSILE STRENGTH (MD)	*TRANSMISSIVITY(MD)	DENSITY
ASTM METHOD	D5199	D1603	D5035	D4716	D1505
(modifications)	avg	min			
UNITS	mils	%	lb/in	$x10^{-3}$ sq. m / s	g/cc
SPECIFICATION	200	1.5 - 3.0	45	1	0.940
ROLL NUMBER					
GNC-200-06 427-520	200	2.3	61	2.22	0.953
GNC-200-06 437-520	200	2.4	54		0.954
GNC-200-06 441-520	200	2.7	59		0.954
GNC-200-06 444-520	200	2.7	59	2.36	0.954
GNC-200-06 446-520	200	2.7	59		0.954
GNC-200-06 482-520	200	2.5	55		0.953
GNC-200-06 485-520	200	2.5	55		0.953
GNC-200-06 486-520	200	2.5	55		0.953
GNC-200-06 487-520	200	2.5	55		0.953
GNC-200-06 629-520	200	2.7	58		0.952
GNC-200-06 723-520	200	2.3	59		0.952
GNC-200-05 2889-520	200	2.2	72		0.950
GNC-200-05 2891-520	200	2.5	52		0.947
GNC-200-05 2893-520	200	2.5	52		0.947
GNC-200-05 2894-520	200	2.5	52		0.947
GNC-200-05 2896-520	200	2.5	52		0.947
GNC-200-05 2899-520	200	2.5	52		0.947
GNC-200-05 2900-520	200	2.5	62	2.26	0.952

*Transmissivity test is performed at gradient of 1.0, normal pressure of 10,000 psf, between metal plates for a seat time of 15 minutes.

CERTIFICATION SHEET

DATE: May 26, 2005

POLY-FLEX, INC.
2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 260019

ORDER NO: 765651

TRIP NO: 255017

CERTIFIED BY:

TEST DESCRIPTION		Product	Unit Weight	Grab Tensile	Puncture	AOS	UV Stability
ASTM METHOD			D5261	D4632	D4833	D4751	D4355
(modifications)							
UNITS			oz/yd²	lb	lb	sieve	%
SPECIFICATION			8	200	120	80	70
Textile Roll Number							
MF08	1303505	GTM-08-0600	9.18	265	168	140	80
MF08	1303730	GTM-08-0600	9.30	262	176	100	80
MF08	1313163	GTM-08-0600	9.60	264	169	140	80
MF08	1313174	GTM-08-0600	8.88	245	161	140	80
MF08	1313175	GTM-08-0600	8.88	245	161	140	80
MF08	1313176	GTM-08-0600	8.88	245	161	140	80
MF08	1313186	GTM-08-0600	8.82	261	155	140	80
MF08	1313188	GTM-08-0600	8.82	261	155	140	80
MF08	1313189	GTM-08-0600	8.82	261	155	140	80
MF08	1313191	GTM-08-0600	9.16	262	154	140	80
MF08	1313194	GTM-08-0600	9.16	262	154	140	80
MF08	1313198	GTM-08-0600	9.16	262	154	140	80
MF08	1313322	GTM-08-0600	9.48	242	176	100	80
MF08	1313380	GTM-08-0600	9.30	244	163	100	80
MF08	1313441	GTM-08-0600	8.70	250	145	100	80
MF08	1314947	GTM-08-0600	9.38	275	164	120	80
MF08	1314960	GTM-08-0600	9.90	269	157	120	80

Poly-Flex

Material Shipment Roll List

Tractor # _____ Trailer # _____ Date: 25-May-06 TRIP 255017

Drop #	1	Drop #		Drop #		Drop #	
Poly-Flex #	260019(765651)	Poly-Flex #		Poly-Flex #		Poly-Flex #	
Customer:	Asarco El Paso	Customer:		Customer:		Customer:	
Destination:	El Paso, TX	Destination:		Destination:		Destination:	
Carrier:	**Bragg & Cline**	Carrier:		Carrier:		Carrier:	

	Net	Roll Number	Weight	Roll Description
1	200 Mil	C1-8-2-06- 0110- 250	905	13.5' X 250' X 08oz SNG
2	200 Mil	C1-8-2-06- 0111- 250	900	13.5' X 250' X 08oz SNG
3	200 Mil	C1-8-2-06- 0112- 250	880	13.5' X 250' X 08oz SNG
4	200 Mil	C1-8-2-06- 0113- 250	890	13.5' X 250' X 08oz SNG
5	200 Mil	C1-8-2-06- 0141- 250	915	13.5' X 250' X 08oz SNG
6	200 Mil	C1-8-2-06- 0145- 250	910	13.5' X 250' X 08oz SNG
7	200 Mil	C1-8-2-06- 0147- 250	910	13.5' X 250' X 08oz SNG
8	200 Mil	C1-8-2-06- 0149- 250	910	13.5' X 250' X 08oz SNG
9	200 Mil	C1-8-2-06- 0153- 250	905	13.5' X 250' X 08oz SNG
10	200 Mil	C1-8-2-06- 0155- 250	910	13.5' X 250' X 08oz SNG
11	200 Mil	C1-8-2-06- 0160- 250	890	13.5' X 250' X 08oz SNG
12	200 Mil	C1-8-2-06- 0163- 250	900	13.5' X 250' X 08oz SNG
13	200 Mil	C1-8-2-06- 0166- 250	880	13.5' X 250' X 08oz SNG
14	200 Mil	C1-8-2-06- 0169- 250	895	13.5' X 250' X 08oz SNG
15	200 Mil	C1-8-2-06- 0394- 250	895	13.5' X 250' X 08oz SNG
16	200 Mil	C1-8-2-06- 0395- 250	910	13.5' X 250' X 08oz SNG
17	200 Mil	C1-8-2-06- 0396- 250	915	13.5' X 250' X 08oz SNG
18	200 Mil	C1-8-2-06- 0397- 250	895	13.5' X 250' X 08oz SNG
19	200 Mil	C1-8-2-06- 0398- 250	890	13.5' X 250' X 08oz SNG
20	200 Mil	C1-8-2-06- 0399- 250	900	13.5' X 250' X 08oz SNG
21	200 Mil	C1-8-2-06- 0400- 250	905	13.5' X 250' X 08oz SNG
22	200 Mil	C1-8-2-06- 0401- 250	910	13.5' X 250' X 08oz SNG
23	200 Mil	C1-8-2-06- 0402- 250	910	13.5' X 250' X 08oz SNG
24	200 Mil	C1-8-2-06- 0403- 250	890	13.5' X 250' X 08oz SNG
25				
26				
27				
28			**21,620**	
29				

I certify that all loading requirements and roll conditions were inspected and approved.

C.E.M.
Truck Loader

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.8 Geocomposite Testing and Factory Certifications, Landfill Cell 3

ENTACT Services, LLC
3129 Bass Pro Drive
Grapevine, TX 76051
P: (972) 580-1323
F: (972) 550-7464

ENTACT
www.entact.com

Letter of Transmittal
ASARCO Pond 6 Repository
El Paso, Texas

Submittal Number: **ENTACT- E7302 - 12** **Date:** **6-25-08**

To:	Arturo Burgos – ASARCO / Eduardo Choquis – Raba Kistner
From:	Kirk Gates
Project Number/Title:	E7302 / Asarco El Paso Pond 6 Repository
Submittal Title	SKAPS Industries – Transnet 220-2-8 Double Sided 8oz. Geocomposite Drainage Net
Reference Drawing/ Specification Section:	Technical Specification Section – 02418

Contractor's Submittal Section:

We are sending you: ☒ Attached ☐ Under separate cover via

☒ Technical Data ☐ Drawings ☐ Analytical Results ☐ Plans ☐ Samples ☐ Other:

# of Copies	As Requested	For Review	For Approval	For Your File	Deviations from Specification
1	X		X		YES*

Engineer's Approval Section:

Approvals:

☐ Reviewed & Approved ☒ Reviewed & Approved w/Comments (TRANSNET 220-2-8) ☐ Reviewed & Rejected

Comments: DRAINAGE GEOCOMPOSITE MUST UNDERGO CONFORMANCE TESTING FOR INTERFACE TESTING WITH 40-MIL LLDPE GEOMEMBRANE AND 1.5' FINE GRAINED SOIL. REQUIRED MINIMUM INTERFACE FRICTION ANGLE: 26.5° → DO NOT USE PRIOR TO TESTING.

* Specification called for 8oz. Single Sided Geocomposite – Due to the cap slopes, a Double Sided Geocomposite will be used.

Approved by: Eduardo D. Choquis **Date:** 6-25-08

CC: Arturo Burgos, ASARCO
File

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.
7943 PECUE LANE SUITE A BATON ROUGE, LA 70809 TEL (225) 291–2700 FAX (225) 291-2788

TO: ENTACT Services, Inc.
3129 Bass Pro Drive
Grapevine, TX 76051
TEL # : (972) 580-1323
ATTENTION: Kirk Gates

DATE: 6/25/08
JOB NAME: Asarco El Paso Pond 6 Liner Project
TRANSMITTAL NUMBER: 12
ESI PROJECT NUMBER: 08-02-1019

WE ARE SENDING [X] ATTACHED [ ] UNDER SEPARATE COVER VIA _____ THE FOLLOWING ITEMS:

[ ] SHOP DRAWINGS [ ] PRINTS [ ] PLANS [ ] SAMPLES [ ] SPECIFICATIONS

[ ] COPY OF LETTER [ ] CHANGE ORDER [ ] _____

COPIES	DATE	DRAWING NO.	REV.	DESCRIPTION	ACTION (*)
1	6/25/08			Proposed Double Sided 8 ounce Geocomposite Data Sheet	AS/FA

ACTION (*)

[X] AS - AS REQUESTED [ ] FA - FOR APPROVAL [ ] _____

[ ] F – FILE [ ] RC - REVIEW & COMMENT [ ] _____

COMMENTS: Substitute Double Sided 8 oz Geocomposite for review and approval.

SENT VIA:

[X] E-MAIL [ ] MAIL [ ] OVERNIGHT [ ] HAND DELIVERY [ ] OTHER

COPY TO: _____ BY: Gregg Abney

If enclosures are not as noted, please notify us at once.....

SKAPS Industries

405 Hood Road
Lilburn, GA 30047
Phone (770)564-1857

DRAINAGE PRODUCT DESCRIPTION SHEET

TRANSNET 220-2-8

Transnet 220-2-8 is a superior quality drainage media made by extruding two sets of HDPE strands together to form a diamond shaped net. The net is then heat laminated to a 8 ounce non-woven fabric. This three dimensional structure provides excellent planar liquid flow. The Transnet 220-2-8 conforms to the physical property values listed below:

NET PROPERTY	TEST METHOD	UNITS	MINIMUM AVERAGE ROLL VALUE
Weight	ASTM D-3776	lbs/ft^2	0.162
Thickness	ASTM D-1777	inches	.22 +/- .022
Density of Polymer	ASTM D-1505	g/cm^2	0.94
Carbon Black	ASTM D-1603	%	2
Transmissivity	ASTM D-4716	m^2/sec	1×10^{-3} *
Tensile Strength	ASTM D-5035	lbs/in.	45
Ply Adhesion	GRI GC-7	lb/in	1

*Transmissivity of the geonet measured using water at 20 Degrees C with a gradient of 1, between two steel plates, under a confining pressure of 10,000 psf, after 15 minutes. Values may vary based on dimension of the transmissivity specimen and specific laboratory.

STYLE GE 180

GE 180 is a superior quality, nonwoven geotextile produced by needlepunching together 100% polypropylene staple fibers in a random network to form a high strength dimensionally stable fabric. The polypropylene fibers are specially formulated to resist ultraviolet light deterioration, and are inert to commonly encountered soil chemicals. The fabric will not mildew, is non-biodegradable, and is resistant to damage from insects and rodents. Polypropylene is stable within a ph range of 2 to 13. GE 180 conforms to the physical property values below:

FABRIC PROPERTY	TEST METHOD	UNITS	MINIMUM AVERAGE ROLL VALUE
Weight	ASTM D-5261	oz.	8.0
Thickness	ASTM D-5199	mil	100
Grab Tensile	ASTM D-4632	lbs	225
Grab Elongation	ASTM D-4632	%	50
Trap Tear	ASTM D-4533	lbs	90
Puncture	ASTM D-4833	lbs	130
Mullen Burst	ASTM D-3786	psi	450
Water Flow Rate	ASTM D-4491	gpm/ft^2	100
Permittivity	ASTM D-4491	1/sec	1.26
Permeability*	ASTM D-4491	cm/sec	0.30
AOS	ASTM D-4751	US Sieve	80

*At time of manufacturing handling may change these properties.

To the best of our knowledge the information contained herein is accurate. However, ESP, Inc. cannot anticipate all conditions under which ESP's product information and our products, or the products of other manufactures in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety or suitability of our products either alone or in combination with other products. Final determination of the suitability of any information or material for the use contemplated, of its manner of use, and whether the suggested use infringes any patents is the sole responsibility of the user.

MANUFACTURING QA IN-PLANT SAMPLING/INSPECTION REPORT

Project Name: Asarco Remedial Waste Repository **TYPE OF MQA:** LEVEL (2) **QA by:**

Material: Double- Sided Geocomposite **SAMPLING FREQUENCY:** 1/100,000 sq.ft. /lot (whichever is greater)

Manufacturer: SKAPS

Location: GA Rec 244, DC # 1972

No.	Roll #	Product Code	Area ft^2	Date Manufactured	Sampled by	Date Sampled	Date Received	Reference Job No/Control No
1	265520001	TN220-2-08	3500	N/A	TP	7/7/2008	7/10/2008	G080755 C#48357
2	265520002	TN220-2-08	3500	N/A				
3	265520003	TN220-2-08	3500	N/A				
4	265520004	TN220-2-08	3500	N/A				
5	265520005	TN220-2-08	3500	N/A				
6	265520006	TN220-2-08	3500	N/A				
7	265520007	TN220-2-08	3500	N/A				
8	265520008	TN220-2-08	3500	N/A				
9	265520009	TN220-2-08	3500	N/A				
10	265520010	TN220-2-08	3500	N/A				
11	265520011	TN220-2-08	3500	N/A				
12	265520012	TN220-2-08	3500	N/A				
13	265520013	TN220-2-08	3500	N/A				
14	265520014	TN220-2-08	3500	N/A				
15	265520015	TN220-2-08	3500	N/A				
16	265520016	TN220-2-08	3500	N/A				
17	265520017	TN220-2-08	3500	N/A				

MANUFACTURING QA IN-PLANT SAMPLING/INSPECTION REPORT

Project Name: Asarco Remedial Waste Repository **TYPE OF MQA:** LEVEL (2) **QA by:**

Material: Double- Sided Geocomposite **SAMPLING FREQUENCY:** 1/100,000 sq.ft. /lot (whichever is greater)

Manufacturer: SKAPS

Location: GA Rec 244, DC # 1972

No.	Roll #	Product Code	Area ft^2	Date Manufactured	Sampled by	Date Sampled	Date Received	Reference Job No/Control No
18	265520018	TN220-2-08	3500	N/A				
19	265520019	TN220-2-08	3500	N/A				
20	265520020	TN220-2-08	3500	N/A				
21	265520021	TN220-2-08	3500	N/A				
22	265520022	TN220-2-08	3500	N/A				
23	265520023	TN220-2-08	3500	N/A				
24	265520024	TN220-2-08	3500	N/A				
25	265520025	TN220-2-08	3500	N/A				
		TOTAL ft^2 =	87,500					

Precision Geosynthetic Laboratories

July 14, 2008

Eduardo Choquis
RABA-KISTNER CONSULTANTS
3602 Westchase Drive,
Houston, Texas 77042

RE: ***Asarco Remedial Waste Repository***

Dear Mr. Choquis:

Thank you for consulting Precision Geosynthetic Laboratories for your material testing needs.

Enclosed is the ***final*** laboratory report for the testing of one (1) Double- Sided Geocomposite sample received on July 10, 2008.

It shall be noted that the sample tested is believed to be a true representative of the material produced under the designation herein stated. In addition, the attached laboratory test results are considered indicative only of the quality of samples/specimens that were actually tested. The appropriate tests methods hereby employed are based on the current and accepted industry practices. Precision Geosynthetic Laboratories neither accepts responsibility for nor makes claims to the intended final use and purpose of the material.

By accepting the data and results presented on this report, the Client agrees to limit the liability of Precision Geosynthetic Laboratories from Client and all other parties for claims arising out of the use of this data to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless Precision Geosynthetic Laboratories from and against all liabilities in excess of the aforementioned limit.

The test data and all associated project information shall be held confidential and not to be reproduced and/or disclosed to other parties except in full and with prior written approval from pertinent entity duly authorized by the respective client or from the client itself.

It is a policy of the company to keep physical records of each job for two (2) years commencing from the date of receipt of the samples and keep its corresponding electronic file for seven (7) years. ***Failed seam samples are kept for two (2) years and good seam samples are disposed of after two (2) weeks. Similarly, retained conformance samples are disposed of after one (1) month.*** On the other hand, should you need us to keep them at longer time, please advise us in writing.

Should you have any questions or if we may be of further service to you, please do not hesitate to contact us at telephone number: 800-522-4599.

Sincerely,
PRECISION GEOSYNTHETIC LABORATORIES

Carmelo V. Zantua
Technical/Laboratory Director

Enclosure: (Job No. G080755)

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

Precision Geosynthetic Laboratories

CLIENT: RABA-KISTNER CONSULTANTS
PROJECT NAME: Asarco Remedial Waste Repository

VERIFICATION OF MATERIAL PROPERTIES
(PGL Job No. G080755)

MATERIAL DESCRIPTION: Double-Sided Geocomposite

SAMPLED BY: PGL @ Skaps, GA

DATE RECEIVED: July 10, 2008 **DATE REPORTED:** July 14, 2008

SAMPLE IDENTIFICATIONS:

SAMPLE ID	PRECISION CONTROL NUMBER
R# 265520001	
Geocomposite	48357
Geotextile Component (Top)	48358
Geotextile Component (Bottom)	48359
Geonet Component	48360

TESTS REQUIRED:

TEST METHOD	DESCRIPTION
Geocomposite	
ASTM D7005	Ply Adhesion
Geotextile	
ASTM D5261	Mass per Unit
Geonet	
ASTM D5261	Mass/Unit Area
ASTM D5199	Thickness
ASTM D4218	Carbon Black Content

TEST CONDITIONS: The sample was conditioned for a minimum one hour in the laboratory at 22 ± 2°C (71.6 ± 3.6°F) and at 60 ± 10% relative humidity prior to test.

TEST RESULTS:

The test results are summarized in Table 1. The units in which the data are reported are included on this table.

PRECISION GEOSYNTHETIC LABORATORIES

GAI-LAP

Initial: CVZ #:0.13

DATE: 07/14/2008

Carmelo V. Zantua
Technical/Laboratory Director

1160 North Gilbert Street, Anaheim, CA. 92801, Tel# 714-520-9631, Fax# 714-520-9637

TABLE 1.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER CONSULTANTS
PROJECT: Asarco Remedial Waste Repository

Date Received : **7/10/2008**
Date Reported: **7/14/2008**
Client Sample ID : **R#265520001**
Material Description: **Double Sided Geocomposite**

QC'd by: _____
PGL Job No. : **G080755**
PGL Control No. : **48357/48360**

METHOD DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs. MARV
GEONET COMPONENT:			C#48360												
ASTM D5199 Thickness (mils)															
Apparatus: Dead weight dial micrometer with 56.4mm (2.22in) dia presser foot and a pressure of 2kPA (0.29psi) provided by a 509gm weight. Loading time: 5sec Specimen Size: 4" x 4"															
	278	**241**	**250**	**247**	**250**	**242**	**241**	**256**	**242**	**241**	**249**	**12**	**241**	**278**	**200**
ASTM D5261 Mass per Unit Area (lbs/ ft^2) *Test Specimen Size: 4" x 8"*															
	0.19	**0.20**	**0.20**	**0.20**	**0.20**						**0.20**	**0.00**	**0.19**	**0.20**	**0.17**
ASTM D4218 Carbon Content Muffle															
	2.69	**2.54**									**2.61**	**0.11**	**2.54**	**2.69**	**2.0-3.0**
GEOCOMPOSITE:			C#48357												
ASTM D7005 Ply Bond Adhesion (lbs/ in.- width)															
Machine is set for 305mm(12 in./min.) constant rate of extension with initial gauge length of 50mm.															
Side A of Composite															
MD	**2.8**	**3.0**	**2.0**	**3.3**	**4.0**						**3.0**	**0.7**	**2.0**	**4.0**	**1.0**
Side B of Composite															
MD	**6.8**	**5.8**	**6.3**	**4.0**	**6.5**						**5.9**	**1.1**	**4.0**	**6.8**	

MD - MACHINE DIRECTION
TD - TRANSVERSE DIRECTION
DC#1984 Record#265

Precision Geosynthetic Laboratories

ISO 9001 - 2000

TABLE 1A.

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER

PROJECT: Asarco Remedial Waste Repository

Date Received: **7/10/2008**
Date Reported: **7/14/2008**
Client Sample ID: **R#265520001**
Material Description: **Non-woven Geotextile Component of Double Sided Geocomposite(Top)**

QC'd By: _____
PGL Job No.: **G080755**
PGL Control No.: **48358**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs. MARV
ASTM D5261	Mass per Unit Area (oz/ yd.^{2})															
	Test Specimen Size: 4" x 8"															
		8.4	**8.4**	**8.6**	**8.8**	**8.3**						**8.5**	**0.2**	**8.3**	**8.8**	**8.0**

MD - MACHINE DIRECTION
TD - TRANSVERSE DIRECTION

Precision Geosynthetic Laboratories

TABLE 1B

MATERIAL PROPERTIES

CLIENT: RABA-KISTNER

PROJECT: Asarco Remedial Waste Repository

Date Received: **7/10/2008**
Date Reported: **7/14/2008**
Client Sample ID: **R#265520001**
Material Description: **Non-woven Geotextile Component of Double Sided Geocomposite(Bottom)**

QC'd By: _____
PGL Job No.: **G080755**
PGL Control No.: **48359**

		SPECIMENS														Proj. Specs.
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	MARV
METHOD	**DESCRIPTION**															
ASTM D5261	Mass per Unit Area (oz/ yd.^{2})															
	Test Specimen Size: 4" x 8"															
		8.3	8.2	8.8	8.4	8.3						8.4	0.3	8.2	8.8	8.0

MD - MACHINE DIRECTION
TD - TRANSVERSE DIRECTION

Precision Geosynthetic Laboratories

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.9 Liner Delivery Inspections, Landfill Cell 3

ENTACT, LLC
Material Delivery / Inventory Checklist

Page: 1 of 1

Date: 3/31/2008

Name: Gary Markum

Project#: E 7302

Project Name: Asarco Facility

Location: El Paso, TX

Material Type: GHT-060-0500SP 60 Mil HDPE

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
1	HTO-6-07-4052-5	8270273	23' x 500'	Material in good condition, labels attached, core in good condition
2	HTO-6-07-4053-5	8270273	23' x 500'	Material in good condition, labels attached, core in good condition
3	HTO-6-07-4054-5	8270273	23' x 500'	Material in good condition, labels attached, core in good condition
4	HTO-6-07-4056-5	8270273	23' x 500'	Material in good condition, labels attached, core in good condition
5	HT1-6-07-4367-5	8270995	23' x 500'	Material in good condition, labels attached, core in good condition
6	HT1-6-07-4369-5	8270995	23' x 500'	Material in good condition, labels attached, core in good condition
7	HT1-6-07-4408-5	8270995	23' x 500'	Material in good condition, labels attached, core in good condition

ENTACT, LLC
Material Delivery / Inventory Checklist

Page: 1 of 1

Date: 3/31/2008

Name: Gary Markum

Project#: E 7302

Project Name: Asarco Facility

Location: El Paso, TX

Material Type: GLT-040-0750P 40 Mil HDPE

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
1	LTI-4-07-1682-75	8170960	23' X 750'	Material in good condition, labels attached, core in good condition
2	LTI-4-07-1683-75	8170960	23' X 750'	Material in good condition, labels attached, core in good condition
3	LTI-4-07-1684-75	8170960	23' X 750'	Material in good condition, labels attached, core in good condition
4	LTI-4-07-1685-75	8170960	23' X 750'	Material in good condition, labels attached, core in good condition

ENTACT, LLC
Material Delivery / Inventory Checklist

Page: 1 of 1

Date: 4/2/2008

Name: Gary Markum

Project#: E 7302

Project Name: Asarco Facility

Location: El Paso, TX

Material Type: GLT-040-0750P 40 Mil HDPE

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
1	LTI-4-07-1680-75	8170960	23' X 750'	Material in good condition, labels attached, core in good condition
2	LTI-4-07-1681-75	8170960	23' X 750'	Material in good condition, labels attached, core in good condition

ENTACT, LLC
Material Delivery / Inventory Checklist

Page: 1 of 2

Date: 4/12/2008

Name: Gary Markum

Project#: E 7302

Project Name: Asarco Facility

Location: El Paso, TX

Material Type: LO-BENTOMAT DN

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
1	00001653	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
2	00001656	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
3	00001662	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
4	00001668	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
5	00001669	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
6	00001672	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
7	00001673	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
8	00001674	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
9	00001681	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
10	00001682	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
11	00001684	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
12	00001685	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition

ENTACT, LLC
Material Delivery /
Inventory Checklist

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
13	00001688	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
14	00001689	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
15	00001692	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition

ENTACT, LLC
Material Delivery / Inventory Checklist

Page: 1 of 3

Date: 4/14/2008

Name: Gary Markum

Project#: E 7302

Project Name: Asarco Facility

Location: El Paso, TX

Material Type: LO-BENTOMAT DN

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
1	00001648	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
2	00001649	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
3	00001650	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
4	00001651	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
5	00001652	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
6	00001654	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
7	00001655	200811LO	150 X 14.0 (2100 sq. ft.)	Material in good condition, labels attached, core in good condition
8	00001657	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
9	00001658	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
10	00001659	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
11	00001660	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
12	00001661	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition

ENTACT, LLC
Material Delivery /
Inventory Checklist

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
13	00001663	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
14	00001664	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
15	00001665	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
16	00001666	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
17	00001667	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
18	00001670	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
19	00001671	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
20	00001675	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
21	00001676	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
22	00001677	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
23	00001678	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
24	00001679	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition

ENTACT, LLC
Material Delivery /
Inventory Checklist

Number	Complete Roll Number	Batch Number	Roll Size	Damage/Remarks
25	00001680	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
26	00001683	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
27	00001686	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
28	00001687	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
29	00001690	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition
30	00001691	200811LO	150 X 14.5 (2175 sq. ft.)	Material in good condition, labels attached, core in good condition

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.10 Bottom Liner Installation Field Quality Control, Landfill Cell 1

American Environmental Group, Ltd.

Project Completion Report

Sold To: ENTACT Services, LLC

Project Name: Asarco

Project Number: 30-60-48

Date Complete: 5-27-06

FINAL QUANTITIES

ITEM	DESCRIPTION	QUANTITY	NOTES
1	GCL Bentofix	2,175 SF	Complete
2	GCL Claymax	184,800 SF.	Complete /floor.
3	60 Mil Textured	182,936 SF.	Complete

AEGL MATERIALS LEFT ON SITE

DESCRIPTION	QUANTITY	NOTES

LIST ALL ROLL NUMBERS ON THE MATERIAL REPORT AND ATTACH TO THIS REPORT

DID YOU HAVE FIELD CHANGE ORDERS NO HOW MANY: —

THIS JOB IS 100% DONE ☑ IF NOT, EXPECTED RETURN DATE:

Notes: -Numbers May vary from survey

The project has been left in a clean, orderly fashion acceptable to the customer. MW (INITIALS) 5-27-06 (DATE)

THE WORK IS COMPLETE, SATISFACTORY, QUANTITIES AGREED TO AND ACCEPTED BY:

Eleazar Garza Jr.
AEGL SUPERINTENDENT SIGNATURE

5-27-06
DATE

Mark Wilson
AUTHORIZED SIGNATURE

HSO
TITLE

ENTACT
COMPANY

5-27-06
DATE

American Environmental Group Ltd.

PRE-WELD / DESTRUCTIVE SAMPLE INFORMATION

Project Name: Asarco

Job#: 306048 Pond - A

Project Manager:

Primary **Secondary** **Other:**

Superintendent:

Material:

Reported By:

[✓] **Preweld Test** [ ] **Destructive Test**

D.S. No.		Weld Time	Weld Date	Operator Name/ ID	Machine Number	Coupon 1 A / B (Peel Test(Extr.) min ppi)	Coupon 2 A / B	Coupon 3 A / B	Coupon 4 A / B (Peel Test(Fusion) ppi)	Coupon 5 A / B	Coupon 1 Shear (Shear Test mim ppi)	Coupon 2 Shear	Results	Notes
	800/6.5	12:40	5.18.06	AC	2801	106/107	100/104	109/101	/	145	138	143	(P) F	S/S
	—"—	12:45		EA	2788	113/109	111/100	110/106	/	140	142	136	(P) F	—"—
	—"—	3:00		EA	2788	115/113	118/123	116/122	/	142	142	140	(P) F	S/T
	—"—	3:05		AC	2801	120/122	116/118	110/118	/	132	140	136	(P) F	—"—
	800/9	2:00	5-19.06	EA	2788	141/117	141/118	127/105	/	137	148	142	(P) F	S/S
	—"—	2:05		—"—	—"—	122/120	116/126	118/120	/	146	140	146	(P) F	S/T
	800/7	2:10		AC	2801	121/120	124/121	125/127	/	131	140	142	(P) F	S/S
	—"—	2:15		—"—	—"—	120/127	125/120	127/116	/	138	140	136	(P) F	S/T
	800/7	8:00	5.20.06	EA	2788	114/120	124/123	127/123	/	136	138	140	(P) F	S/S
	—"—	8:05		—"—	—"—	116/118	112/110	120/118	/	140	142	136	(P) F	S/T
	—"—	8:10		AC	2801	119/112	122/115	118/115	/	138	142	146	(P) F	S/S
	800/9	2:06		EA	2788	132/129	128/126	133/135	/	128	148	132	(P) F	S/S
	—"—	2:15		AC	2801	114/127	112/121	122/128	/	138	140	130	(P) F	—"—
	800/7	7:10	5-21.06	EA	2788	120/112	116/108	117/115	/	142	142	146	(P) F	S/S.
	285/275	9:45		RC	G#3	132/	148/	138	/	148	146	140	(P) F	
	240/175	9:50		EG	G#127	140/	126/	132	/	146	152	138	(P) F	
						/	/	/	/	/			P F	

Samples Sent Via: _____ Last Sample #: _____ On (Date): _____

Notes: _____

American Environmental Group Ltd.

PRE-WELD / DESTRUCTIVE SAMPLE INFORMATION

Project Name: Asarco

Project Manager:

Superintendent:

Reported By:

Job#: 306048 Pond - A

Primary **Secondary** **Other:**

Material: 60mil TexTure

[ ] Preweld Test [✓] Destructive Test

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Coupon 1 A / B (Peel Test(Extr.) min ppi)	Coupon 2 A / B	Coupon 3 A / B (Peel Test(Fusion) ppi)	Coupon 4 A / B	Coupon 5 A / B	Coupon 1 Shear (Shear Test mim ppi)	Coupon 2 Shear	Results	Notes
DS-1	3/4	1:25	5-18-06	FA	2788	119/122	122/131	128/128	127/121	125/127			P F	
						153	163	150	158	160			(P) F	S/S
DS-2	8/9	3:15	5-18-06	AC	2801	119/105	110/108	122/108	115/103	110/112			P F	
						140	136	148	132	142			(P) F	S/S
DS-3	16/17	3:03	5-19-06	FA	2788	113/112	108/117	130/122	116/108	122/116			P F	
						149	146	156	132	146			(P) F	S/S
DS-4	19/20	5:25	5-19-06	AC	2801	117/112	120/116	126/114	120/118	122/116			P F	
						150	148	136	138	140			(P) F	S/S
DS-5	15/22	9:34	5-20-06	FA	2788	133/122	127/128	121/129	123/124	126/122			P F	
						152	158	164	150	156			(P) F	S/T
DS-6	27/28	3:22	5-20-06	AC	2801	123/120	120/126	107/110	105/116	120/112			P F	
						138	146	159	162	152			(P) F	S/S
DS-7	30/31	4:10	5-20-06	FA	2788	129/128	126/126	118/120	122/126	120/116			P F	
						162	160	148	150	160			(P) F	S/S
DS-8	32/33	8:00	5-21-06	FA	2788	117/113	116/118	111/108	118/116	105/120			P F	
						160	156	148	152	148			(P) F	S/S
DS-9	39/40	2:23	5-22-06	AC	2801	116/123	111/120	116/118	126/120	118/126			(P) F	S/S
						144	154	158	150	152				

Samples Sent Via: _____ Last Sample #: _____ On (Date): _____

Notes: _____

American Environmental Group Ltd.

PRE-WELD / DESTRUC VE SAMPLE INFORMATION

Project Name: Asarco **Job#:** 306048 Pond_A

Project Manager: **Primary** **Secondary** **Other:**

Superintendent: **Material:**

Reported By: **[ ] Preweld Test** **[✓] Destructive Test**

Peel Test(Extr.) min ppi Peel Test(Fusion) ppi Shear Test mim ppi

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Coupon 4 A / B	Coupon 5 A / B	Coupon 1 Shear	Coupon 2 Shear	Results	Notes
DS-10	42/44	3:52	5-22-06	FA	2788	119/124	120/119	108/116	121/118	117/122			P F	
						140	148	152	150	146			(P) F	S/S
DS-11	47/48	5:30	5-22-06	AC	2801	116/103	119/106	111/118	105/116	116/121			P F	
						135	142/	140/	138/	138/			(P) F	S/S
DS-12	51/53	1:45	5-23-06	FA	2788	115/118	120/116	118/106	105/113	118/120			P F	
						138/	140	146	142	138			(P) F	S/S
DS-13	56/58	6:25	5-23-06	FA	2788	116/118	120/118	114/116	117/119	108/110			P F	
						132/	132/	136/	140	140			(P) F	S/S
DS-14	56/29	8:05	5-24-06	FA	2788	117/124	122/127	112/122	128/122	120/118			P F	
						146	144	150	153	150			(P) F	T/T
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	

Samples Sent Via: Last Sample #: On (Date):

Notes:

American Environmental Group, Ltd.
Construction Repair Report

Page: 1

Project Name: ASARCO

Project Manager: TOM SPARKS

Supintendent: ELEAZAR GARZA

HDPE

HDT

PPR

Other:

Date:

Job#: 30 6048

Thickness: 60mm

Primary Secondary Other

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data: Test	Test Data: Results	Test Data: Date
R-1	AT	1/2	2' E. W. END OF SEAM	P	6X2	(VT) ST PT	(P) F	5.21.06
R2	DS-1	3/4	35' E. W. END OF SEAM	P	6X2	VT ST PT	P F	
R3	DS-2	8/9	50' E.W. END OF SEAM	P	6X2	VT ST PT	P F	
R-4	T	10/12/13	INTERSECTION	P	2X2	VT ST PT	P F	
R5	T	10/11/12	"	P	2X2	VT ST PT	P F	
R6	T	11/12/14	"	P	2X2	VT ST PT	P F	
R7	AT	11/15	S. END OF SEAM	P	6X2	VT ST PT	P F	
R8	T	15/11/10	INTERSECTION	P	2X2	VT ST PT	P F	
R9	T	15/10/9	"	P	4X4	VT ST PT	P F	
R-10	T	15/8/9	"	P	2X2	VT ST PT	P F	
R-11	T	15/8/7	"	P	2X2	VT ST PT	P F	
R-12	T	15/7/6	"	P	6X6	VT ST PT	P F	
R-13	T	2/3/17/18	"	P	2X2	VT ST PT	P F	
R-14	T	3/4/18/19	"	P	2X2	VT ST PT	P F	
R-15	T	4/5/19/20	"	P	6X2	VT ST PT	P F	
R-16	T	5/6/20	"	P	2X2	VT ST PT	P F	
R-17	T	6/20/21	"	P	2X2	VT ST PT	P F	
R-18	T	6/15/21	"	P	3X3	VT ST PT	P F	
R-19	T	15/21/22	"	P	2X2	VT ST PT	P F	
R-20	DS-5	22/15	5' S. N. END OF SEAM	P	6X2	VT ST PT	P F	
R-21	T	15/22/23	INTERSECTION	P	2X2	VT ST PT	P F	
R-22	T	15/23/24	"	P	2X2	VT ST PT	P F	
R23	T	15/24/25	"	P	2X2	VT ST PT	P F	
R-24	T	15/25/26	"	P	2X2	VT ST PT	P F	
R25	AT	15/26	4' N.S. END OF SEAM	P	2X2	VT ST PT	P F	
R-26	AT	20/21	E. END OF SEAM	P	2X2	VT ST PT	P F	
R-27	DS-4	19/20	33' W. E. END OF SEAM	P	6X2	VT ST PT	P F	
R-28	DS-3	16/17	100' W. E. END OF SEAM	P	6X2	VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
Earthwork Equipment Damage
- Fish Mouth
ES- Exposed Scrim
SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group, Ltd.
Construction Repair Report

Project Name: ASARCO
Project Manager: TOM SPARKS
Supintendent: EDUARDO GARZA

—	HDPE
	HDT
	PPR
	Other:

Page: 2
Date:
Job#: 306648
Thickness: 60 MIL

Primary Secondary Other

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data: Test	Test Data: Results	Test Data: Date
R-29	DS-6	27/28	55' W.E. END OF SEAM	P	6X2	(VT) ST PT	(P) F	5-22-06
R-30	DS-7	30/31	75' W.E. END OF SEAM	P	6X2	VT ST PT	P F	
R-31	DS-8	32/33	60' W.E. END OF SEAM	P	6X2	VT ST PT	P F	
R-32	T	34/35/36	INTERSECTION	P	2X2	VT ST PT	P F	
R-33	T	34/36\37	INTERSECTION	P	2X2	VT ST PT	P F	
R-34	T	33/34\37	"	P	2X2	VT ST PT	P F	
R-35	T	59/60\37	"	P	2X2	VT ST PT	P F	
R-36	T	59/37/33	"	P	2X2	VT ST PT	P F	
R-37	T	59/32/33/58	"	P	2X2	VT ST PT	P F	
R-38	T	58/32\31	"	P	2X2	VT ST PT	P F	
R-39	T	58/31\30	"	P	2X2	VT ST PT	P F	
R-40	T	56/58\30	"	P	2X2	VT ST PT	P F	
R-41	T	56/30\29	"	P	2X2	VT ST PT	P F	
R-42	DS-14	58/29	10' N. S. END OF SEAM	P	6X2	VT ST PT	P F	
R-43	T	56/28\29	INTERSECTION	P	2X2	VT ST PT	P F	
R-44	T	51/56\28	"	P	4X4	VT ST PT	P F	
R-45	T	51/28\27	"	P	2X2	VT ST PT	P F	
R-46	T	53/51\27	"	P	2X2	VT ST PT	P F	
R-47	T	53/27\16/57	- "	P	4X4	VT ST PT	P F	
R-48	T	57/16\17/1	- "	P	8X8	VT ST PT	P F	
R-49	T	57/1\38	"	P	2X2	VT ST PT	P F	
R-50	T	53/57\38	"	P	6X6	VT ST PT	P F	
R-51	T	38/53\39	"	P	2X2	VT ST PT	P F	
R-52	T	39/42\53	"	P	4X4	VT ST PT	P F	
R-53	T	54/42\53	"	P	2X2	VT ST PT	P F	
R-54	T	42/44\54	"	P	2X2	VT ST PT	P F	
R-55	T	44/54\53	"	P	2X2	VT ST PT	P F	
R-56	T	44/43\54	"	P	2X2	VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
Earthwork Equipment Damage
. - Fish Mouth
ES- Exposed Scrim
SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group, Ltd.
Construction Repair Report

Project Name: ASARCO
Project Manager: TOM SPARKS
Supintendent: EUGENE GARZA

Page: 3
Date:
Job#: 306048
Thickness: 60 MIL

- [x] HDPE
- [ ] HDT
- [ ] PPR
- [ ] Other:

Primary Secondary Other

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data: Test	Test Data: Results	Test Data: Date
R-57	T	54/45/46	INTERSECTION	P	2X2	(VT) ST PT	(P) F	5-24-06
R-58	T	54/46/47	"	P	2X2	VT ST PT	P F	
R-59	T	55/54/47/48	"	P	6X2	VT ST PT	P F	
R-60	T	55/48/49	"	P	2X2	VT ST PT	P F	
R-61	T	49/50/55	"	P	2X2	VT ST PT	P F	
R-62	T	38/39/40	"	P	2X2	VT ST PT	P F	
R-63	T	38/40/41	"	P	2X2	VT ST PT	P F	
R-64	T	38/41/43	"	P	2X2	VT ST PT	P F	
R-65	DS-9	39/40	55' E. W. END OF SEAM	P	6X2	VT ST PT	P F	
R-66	DS-10	42/44	85' E. W. END OF SEAM	P	6X2	VT ST PT	P F	
R-67	DS-11	47/48	35' E. W. END OF SEAM	P	6X2	VT ST PT	P F	
R-68	DS-12	51/53	100' S. N. END OF SEAM	P	6X2	VT ST PT	P F	
R-69	DS-13	56/58	112' S. N. END OF SEAM	P	6X2	VT ST PT	P F	
R-70						VT ST PT	P F	
R-71						VT ST PT	P F	
R-72						VT ST PT	P F	
R-73						VT ST PT	P F	
R-74						VT ST PT	P F	
R-75						VT ST PT	P F	
R-76						VT ST PT	P F	
R-77						VT ST PT	P F	
R-78						VT ST PT	P F	
R-79						VT ST PT	P F	
R-80						VT ST PT	P F	
R-81						VT ST PT	P F	
R-82						VT ST PT	P F	
R-83						VT ST PT	P F	
R-84						VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
Earthwork Equipment Damage
- Fish Mouth
ES- Exposed Scrim
SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group Ltd.

SEA(CONTROL

Project Name: Asarco
Project Manager:
Superintendent:
Reported By:

Material: 60mil Tex
Location: ElPaso, TX
Job#: 306048

Primary Secondary Other: Pond - A

Weld Date	Seam No.	Seam Length	Start Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp	Test Date	Test Type	Time IN	Time Out	Test Results	D. S. Number (NOTES)
5.18.06	1/2	156	12:50	F.A	2788	800	6.5	94°	5.18.06	AT	2:43	248	(P) F	
	2/3	145	12:50	A.C	2801						240	245	(P) F	
	3/4	144	1:25	F.A	2788						230	235	(P) F	
	4/5	135	2:20	A.C	2801						310	315	(P) F	
	5/6	127	2:26	F.A	2788						312	317	(P) F	
	6/7	97	2:53	A.C	2801						315	320	(P) F	
	7/8	91	2:58	F.A	2788						319	324	(P) F	
	8/9	80	3:15	A.C	2801						331	336	(P) F	
	9/10	64	3:20	F.A	2788						338	343	(P) F	
	10/13	16	4:35	—"—	—"—						444	449	(P) F	
	10/12	14	—"—	—"—	—"—						446	451	(P) F	
	10/11	24	—"—	—"—	—"—						448	453	(P) F	
	12/13	16	3:45	—"—	—"—						400	405	(P) F	
	12/14	16	3:51	A.C	2801						401	406	(P) F	
	11/12	14	4:6	—"—	—"—						430	435	(P) F	
	11/14	16	—"—	—"—	—"—						432	437	(P) F	
	15/11	43	5:35	—"—	—"—						540	545	(P) F	
	15/10	23	—"—	—"—	—"—						542	547	(P) F	
	15/9	23	—"—	—"—	—"—						546	551	(P) F	
	15/8	23	—"—	—"—	—"—						548	553	(P) F	
	15/7	23	—"—	—"—	—"—						553	558	(P) F	
	15/6	23	5:50	—"—	—"—						557	6:02	(P) F	
													P F	
	Total =	1313												

Air Test: 30 psi for 5 minutes- 3 psi loss allowed. Tested By: VC

American Environmental Group Ltd.

SEA(CONTROL

Project Name: Asarco
Project Manager:
Superintendent:
Reported By:

Material: 60 mil Tex
Location: ElPaso, TX
Job#: 306048

Primary Secondary Other: Pond - A

Weld Date	Seam No.	Seam Length	Start Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp	Test Date	Test Type	Time IN	Time Out	Test Results	D. S. Number (NOTES)
5-19-06	16/17	166	3:03	FA	2788	800	9	90°	5-19-06	AT	439	444	Ⓟ F	
	17/18	158	3:30	AC	2801		7				440	445	Ⓟ F	
	18/19	150	4:05	FA	2788		9				442	447	Ⓟ F	
	19/20	136	5:25	AC	2801		7		5-20-06		733	738	Ⓟ F	
	20/21	121	5:35	FA	2788		9				726	731	Ⓟ F	
	21/22	104	5:45	AC	2801		7				725	730	Ⓟ F	
													P F	
		835											P F	
													P F	
													P F	
5-20-06	22/23	85	8:10	FA	2788	800	7	96°	5-20-06		834	839	Ⓟ F	
	23/24	70	8:15	AC	2801						836	841	Ⓟ F	
	24/25	47	8:33	FA	2788						843	848	Ⓟ F	
	25/26	22	8:35	AC	2801						844	849	Ⓟ F	
	15/26	27	9:15	FA	2788						923	928	Ⓟ F	
	15/25	25	9:20								924	929	Ⓟ F	
	15/24	26	9:25								935	940	Ⓟ F	
	15/23	24	9:29								936	941	Ⓟ F	
	15/22	25	9:34								945	950	Ⓟ F	
	15/21	9	9:36								946	951	Ⓟ F	
	6/21-20	23	9:39								955	10:00	Ⓟ F	
	5/20-19	23	9:43								956	1001	Ⓟ F	
	4/19	22	9:46								1006	1007	Ⓟ F	
	Total =	428												

Air Test: 30 psi for 5 minutes- 3 psi loss allowed. Tested By: VC

American Environmental Group Ltd.

SEA CONTROL

Project Name: Asarco
Project Manager:
Superintendent:
Reported By:

Material: 6oml Tex
Location: ElPaso, TX
Job#: 306048

Primary Secondary Other: Pond - A

Weld Date	Seam No.	Seam Length	Start Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp
5-20-06	3/18	26	9:50	FA	2788	800	7	96°
	2/17	22	9:53					
	1/17	6	9:54					
	27/16	170	3:07				9	
	27/28	166	3:22	AC	2801			
	28/29	150	3:31	FA	2788			
	29/30	132	3:53	AC	2801			
	30/31	129	4:10	FA	2788			
	31/32	108	4:30	AC	2801			
		909						
5-21-06	32/33	100	8:00	FA	2788	800	7	98°
	33/34	60	9:15					
	33/37	24	9:18					
	34/35	22	9:53					
	34/36	24	9:57					
	35/36	23	8:58					
	36/37	41	9:34					
	Total =	294						

Test Date	Test Type	Time IN	Time Out	Test Results	D. S. Number (NOTES)
5-20-06	AT	1014	1019	(P) F	
		1015	1020	(P) F	
	VT			(P) F	Ex7 Seam.
5-21-06	AT	740	745	(P) F	
		745	750	(P) F	
		751	756	(P) F	
		754	759	(P) F	
		757	8:03	(P) F	
		759	804	(P) F	
				P F	
				P F	
				P F	
5-21-06	AT	901	905	(P) F	
		906	911	(P) F	
		1006	1011	(P) F	
		10:00	10:05	(P) F	
		953	958	(P) F	
		915	920	(P) F	
		955	10:00	(P) F	
				P F	
				P F	
				P F	
				P F	

Air Test: 30 psi for 5 minutes- 3 psi loss allowed. Tested By: VC

American Environmental Group Ltd.

SEA(CONTROL

Project Name: Asarco
Project Manager:
Superintendent:
Reported By:

Material:
Location: ElPaso, TX

Job#: 306048

Primary Secondary Other: Pond A

Weld Date	Seam No.	Seam Length	Start Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp
5.22.06	1|38	158	2:03	FA	2788	800	9	90
	38|43	53	3:21					
	38|41	63	3:28					
	38|40	45	3:33					
	38|39	32	3:37					
	41|40	92	2:32					
	39|40	126	2:23	AC	2801			
	39|42	145	3:25	—"—	—"—			
	42|44	134	3:52	FA	2788			
	44|45	116	4:17	AC	2801			
	45|46	104	4:32	FA	2788			
	46|47	91	5:18	—"—	—"—			
	47|48	76	5:30	AC	2801			
	48|49	59	5:45	FA	2788			
	49|50	44	5:54	AC	2801			
	Total =	1338						

Test Date	Test Type	Time IN	Time Out	Test Results	D. S. Number (NOTES)
5.23.06	AT	844	849	(P) F	
		900	905	(P) F	
		902	907	(P) F	
		910	915	(P) F	
		913	918	(P) F	
		907	912	(P) F	
		823	828	(P) F	
		820	825	(P) F	
		813	818	(P) F	
		810	815	(P) F	
		807	812	(P) F	
		805	810	(P) F	
		759	804	(P) F	
		758	803	(P) F	
		752	757	(P) F	
				P F	
				P F	
				P F	
				P F	
				P F	
				P F	
				P F	
				P F	

Air Test: 30 psi for 5 minutes- 3 psi loss allowed. Tested By: VC

American Environmental Group Ltd.

SEA(CONTROL

Project Name: Asarco
Project Manager:
Superintendent:
Reported By:

Material:
Location: ElPaso, TX

Job#: 306048

Primary Secondary Other: Pond - A

Weld Date	Seam No.	Seam Length	Start Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp
5-23.06	51|52	26	1:16	FA	2788	800	9	92°
	51|53	124	1:45					
	52|53	97	2:00					
	53|54	217	2:16					
	54|55	94	2:57					
	55|50	40	3:02					
	55|49	26	3:05					
	55|48	25	3:08					
	54|47	25	3:11					
	54|46	26	3:14					
	54|45	25	3:17					
	54|44	25	3:20					
	54|42	25	3:23					
	53|39	11	5:00					
	53|38	22	5:03					
	57|38	10	5:05					
	57|1-[illegible]	22	5:08					
	57|16	26	5:20					
	53|57	22	5:30					
	52|27	24	6:15					
	52|28	18	6:17					
	51|56	110	4:47					
	52|5[illegible]	26	4:50					
	Total =	1066						

Test Date	Test Type	Time IN	Time Out	Test Results	D. S. Number (NOTES)
5-23.06	AT	121	126	(P) F	
		228	233	(P) F	
		230	235	(P) F	
		250	255	(P) F	
		315	320	(P) F	
		345	350	(P) F	
		453	458	(P) F	
		455	500	(P) F	
		401	406	(P) F	
		405	410	(P) F	
		407	412	(P) F	
		409	414	(P) F	
		417	422	(P) F	
		542	547	(P) F	
		548	553	(P) F	
		559	604	(P) F	
		605	610	(P) F	
		607	612	(P) F	
		530	535	(P) F	
5.24.06	AT	953	958	(P) F	
		1001	1006	(P) F	
		950	955	(P) F	
		9:52	957	(P) F	

Air Test: 30 psi for 5 minutes- 3 psi loss allowed. Tested By: VC

American Environmental Group Ltd.

SEA CONTROL

Project Name: Asarco
Project Manager:
Superintendent:
Reported By:

Material:
Location: ElPaso, TX

Job#: 306048

Primary Secondary Other: Pond - A

Weld Date	Seam No.	Seam Length	Start Time	Operator Name / ID#	Mach No.	Mach Temp	Mach Speed	Amb Temp	Test Date	Test Type	Time IN	Time Out	Test Results	D. S. Number (NOTES)
5.23.06	52/56	75	4:55	FA	2788	800	9	92°	5.24.06	AT	952	957	(P) F	
	56/58	180	6:25								1024	1029	(P) F	
	58/59	122	6:49								1040	1045	(P) F	
	59/60	75	6:55								1055	1100	(P) F	
													P F	
		452											P F	
													P F	
													P F	
5.24.06	52/28	18	8:00	FA	2788	800	7	97°	5.24.06	AT	953	958	(P) F	
	56/28	7	8:01								1001	1006	(P) F	
	56/29	24	8:05								1007	1012	(P) F	
	56/30	7	8:06								1013	1018	(P) F	
	58/30	17	8:08								1018	1023	(P) F	
	58/31	22	8:11								1025	1030	(P) F	
	58/32	19	8:14								1030	1035	(P) F	
	59/33	24	8:17								1034	1039	(P) F	
	59/37	23	8:20								1045	1050	(P) F	
	60/37	54	8:28								1052	1057	(P) F	
													P F	
													P F	
													P F	
													P F	
													P F	
	Total =	219												

Air Test: 30 psi for 5 minutes- 3 psi loss allowed.

Tested By: VC

American Environmental Group, Ltd.

Daily Panel Placement

Page 1 of

Deployment Date

Project Name: DSDECO Job # 306048 Supt: EDUARDO GARZA

Material: Primary [X] Secondary [ ] Pond # Cell # / Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
1	1246	3668	3566	
2	1246	3484	3386	
3	1246	3312	3206	
4	1245	3162	3071	
5	1245	3082	2992	
6	1245	2783	2700	
7	0174	2058	1991	
8	0174	1828	1766	

Panel # 1 — 23; 22.5; 163, 162, 155, 156

Panel # 2 — 23; 22.5; 156, 155, 146, 147

Panel # 3 — 23; 22.5; 147, 146, 140, 141

Panel # 4 — 23; 22.5; 141, 140, 133, 134

Panel # 5 — 23; 22.5; 134, 133, ~~124~~ 124, ~~125~~

Panel # 6 — 23; 22.5; 125, 124, 116, 117

Panel # 7 — 23; 22.5; 94, 93, 84, 85

Panel # 8 — 23; 22.5; 85, 84, 75, 74

Total Initial SF This Page 23,377 SF

Total Final SF This Page 22,678 SF

Anchor Trench

Total Linear feet trench LF

X

Depth and width allowed in trench LF

= Total SF in Trench SF

Total Pay Area This Page 22,678 SF

Total Previous Pages 0 SF

Total Pay Area to Date 22,678 SF

American Environmental Group, Ltd.

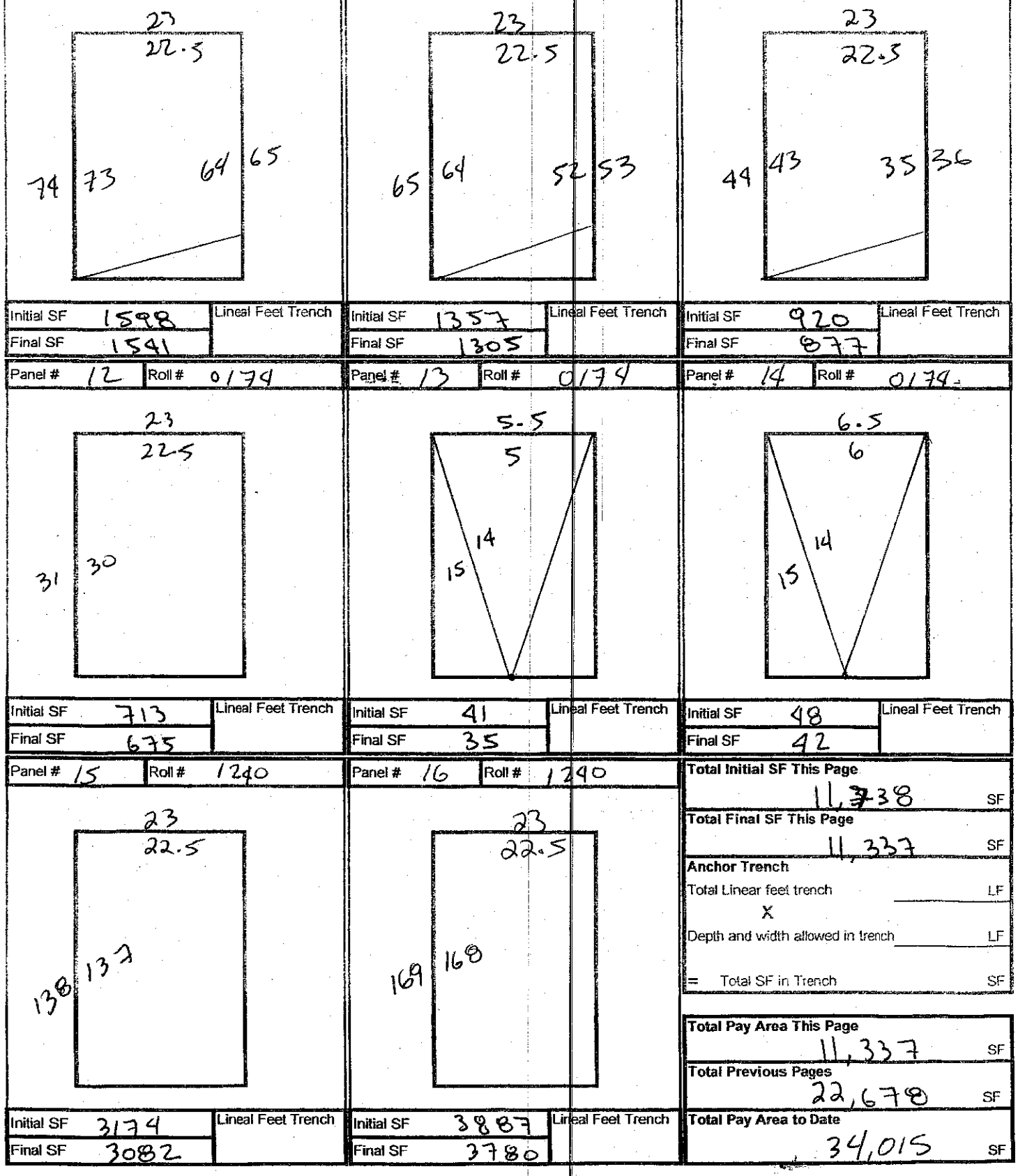
Daily Panel Placement

Deployment Date

Project Name: ASARCO Job # 306048 Supt: ELEAZAR GARZA

Material: Primary [✓] Secondary [ ] Pond # Cell # — Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
9	0174	1598	1541	
10	0174	1357	1305	
11	0174	920	877	
12	0174	713	675	
13	0174	41	35	
14	0174	48	42	
15	1240	3174	3082	
16	1240	3887	3780	



Total Initial SF This Page	11,738 SF
Total Final SF This Page	11,337 SF
Anchor Trench	
Total Linear feet trench	LF
X	
Depth and width allowed in trench	LF
= Total SF in Trench	SF
Total Pay Area This Page	11,337 SF
Total Previous Pages	22,678 SF
Total Pay Area to Date	34,015 SF

American Environmental Group, Ltd.

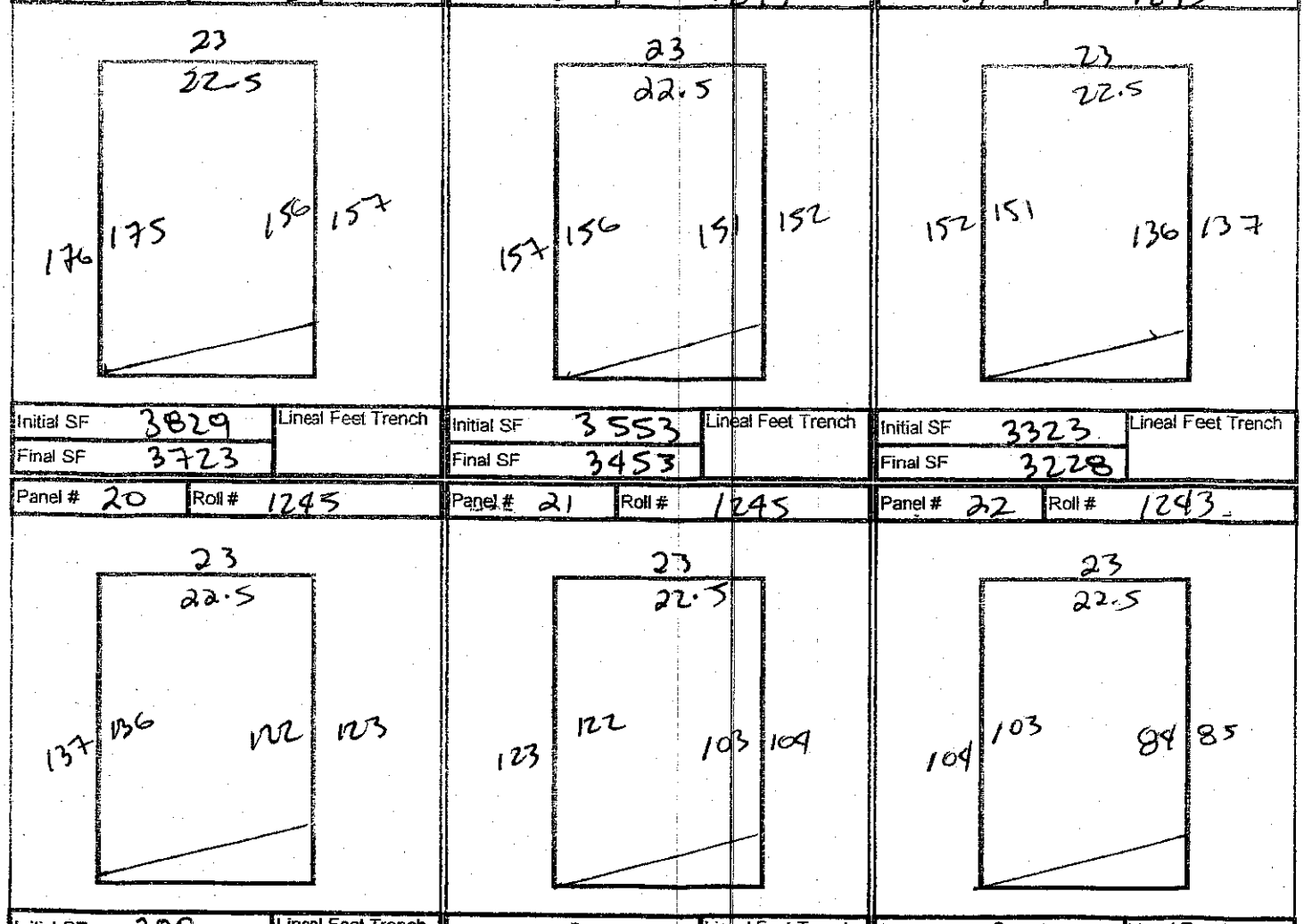
Daily Panel Placement

Deployment Date

Project Name: ASARCO Job # 306048 Supt: ELEAZAR GARZA

Material: Primary [✓] Secondary [ ] Pond # Cell # Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
17	1243	3829	3723	
18	1243	3553	3453	
19	1245	3323	3228	
20	1245	2990	2902	
21	1245	2610	2531	
22	1243	2173	2103	
23	1240	1736	1676	
24	1243	1299	1248	



Total Initial SF This Page 21,513 SF

Total Final SF This Page 20,864 SF

Anchor Trench

Total Linear feet trench ____ LF

X

Depth and width allowed in trench ____ LF

= Total SF in Trench ____ SF

Total Pay Area This Page 20,864 SF

Total Previous Pages 34,015 SF

Total Pay Area to Date 54,879 SF

American Environmental Group, Ltd.

Daily Panel Placement

Deployment Date

Project Name: ASARCO Job # 306048 Supt: EDGAR GARZA

Material: Primary [ ] Secondary [ ] Pond # Cell # Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
25	1240	851	810	
26	1245	310	292	
27	0179	3691	3588	
28	0179	3369	3273	
29	0179	3105	3026	
30	1244	2840	2756	
31	1244	2610	2531	
32	1244	2380	2306	

Panel # 25 — 23; 22.5; 47, 46, 26, 27

Panel # 26 — 23; 22.5; 27, 26

Panel # 27 — 23; 22.5; 169, 168, 151, 152

Panel # 28 — 23; 22.5; 152, 151, 140, 141

Panel # 29 — 23; 22.5; 141, 140, 128, 129

Panel # 30 — 23; 22.5; 129, 128, 147, 148

Panel # 31 — 23; 22.5; 108, 107, 108, 109

Panel # 32 — 23; 22.5; 109, 108, 97, 98

Total Initial SF This Page	19,156 SF
Total Final SF This Page	18,582 SF
Anchor Trench	
Total Linear feet trench	LF
X	
Depth and width allowed in trench	LF
= Total SF in Trench	SF
Total Pay Area This Page	18,582 SF
Total Previous Pages	54,879 SF
Total Pay Area to Date	73,461 SF

American Environmental Group, Ltd.

Daily Panel Placement

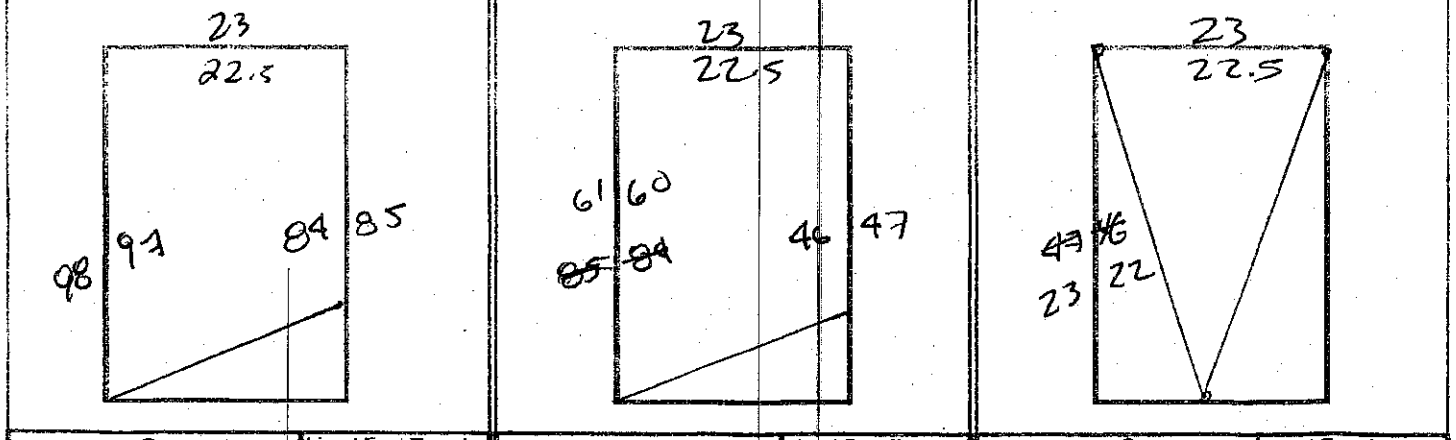
Page 3 of

Deployment Date 5-21-06

Project Name: DSDRCO Job # 306048 Supt: ELEDZDR GARZA

Material: Primary [X] Secondary [ ] Pond # Cell # Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
33	1244	2104	2036	
34	0180	1242	1192	
35	0180	264	247	
36	0180	770	731	
37	0180	1667	1608	



Total Initial SF This Page	6047 SF
Total Final SF This Page	5814 SF
Anchor Trench	
Total Linear feet trench	LF
X	
Depth and width allowed in trench	LF
= Total SF in Trench	SF
Total Pay Area This Page	5814 SF
Total Previous Pages	73,461 SF
Total Pay Area to Date	79,275 SF

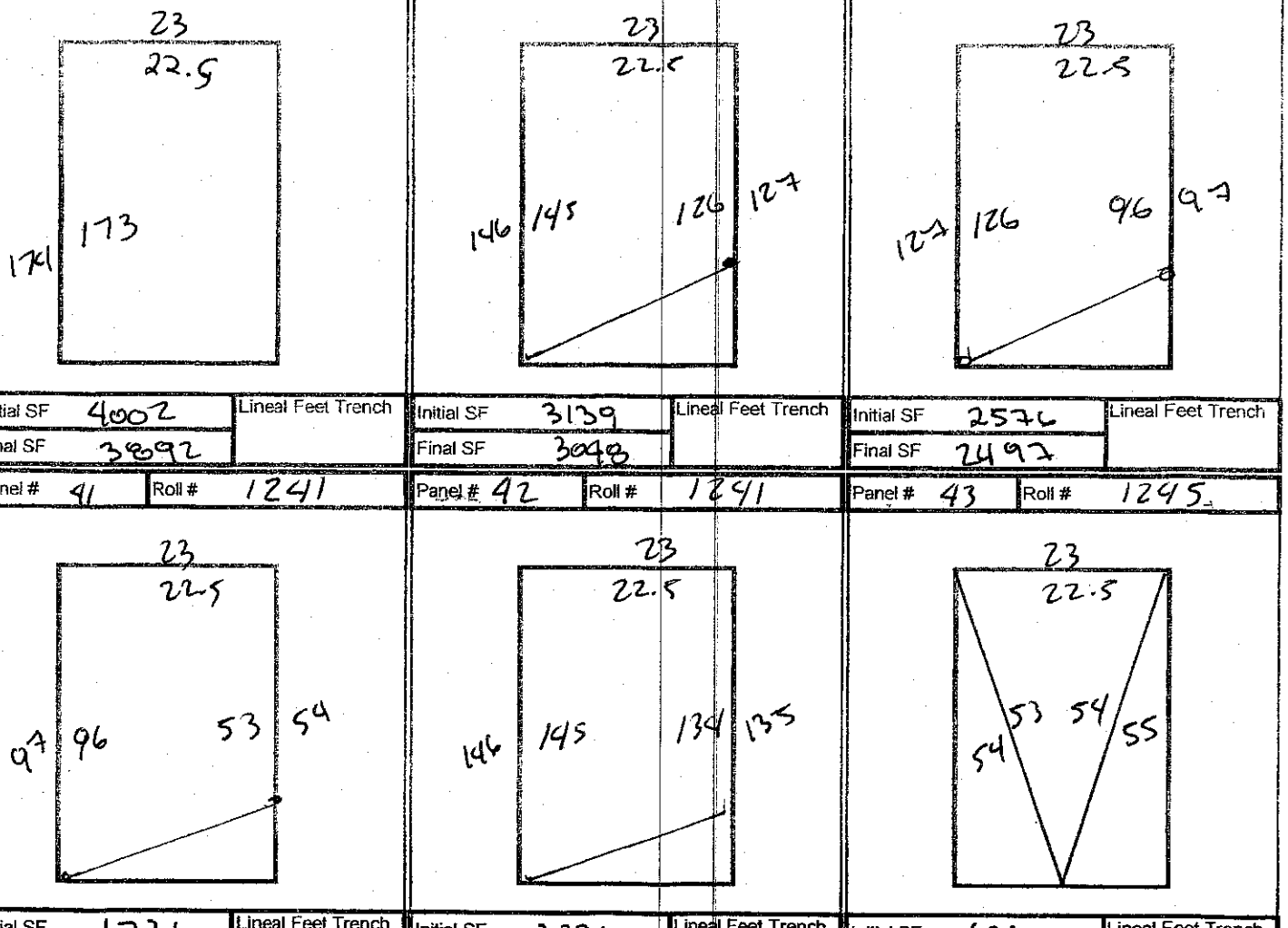
American Environmental Group, Ltd.
Daily Panel Placement

Deployment Date 5-22-06

Project Name: ASARCO Job # 306048 Supt: ELEAZAR GARZA

Material: Primary [X] Secondary [ ] Pond # Cell # Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
38	1249	4002	3892	
39	1249	3139	3048	
40	1249	2576	2497	
41	1241	1736	1676	
42	1241	3231	3138	
43	1245	626	601	
44	1241	2898	2812	
45	1241	2553	2475	



Total Initial SF This Page SF

Total Final SF This Page 20,139 SF

Anchor Trench

Total Linear feet trench LF

X

Depth and width allowed in trench LF

= Total SF in Trench SF

Total Pay Area This Page 20,139 SF

Total Previous Pages 79,275 SF

Total Pay Area to Date 99,411 SF

American Environmental Group, Ltd.

Daily Panel Placement

Deployment Date

Project Name: ASARCO Job # 306048 Supt: EUSEBIO GARZA

Material: Primary [X] Secondary [ ] Pond # Cell # Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
46	0180	2263	2193	
47	0180	1943	1878	
48	0180	1575	1518	
49	0174	1207	1158	
50	0180	759	720	

46: 23, 22.5, 105, 104, 91, 92

47: 23, 22.5, 92, 91, 76, 77

48: 23, 22.5, 77, 76, 59, 60

49: 23, 22.5, 60, 59, 44, 45

50: 23, 22.5, 45, 44, 20, 21

Total Initial SF This Page SF

Total Final SF This Page 7467 SF

Anchor Trench

Total Linear feet trench LF

X

Depth and width allowed in trench LF

= Total SF in Trench SF

Total Pay Area This Page SF

Total Previous Pages 99,411 SF

Total Pay Area to Date 106,878 SF

American Environmental Group, Ltd.

Daily Panel Placement

Deployment Date 5-23-06

Project Name: ASARCO Job # 306048 Supt: ELEAZAR CARZA

Material: Primary [X] Secondary [ ] Pond # Cell # Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
51	0001	3128	3037	
52	0001	2061	1935	
53	0001	5451	5310	
54	1239	3979	3870	
55	1244	2116	2047	
56	1244	4646	4522	
57	1240	360	332	
58	1246	3496	3397	

Panel # 51: 23 × 22.5; 136 135

Panel # 52: 23 × 22.5; 87 86

Panel # 53: 23 × 22.5; 237 236

Panel # 54: 23 × 22.5; 173 172

Panel # 55: 23 × 22.5; 92 91

Panel # 56: 23 × 22.5; 202 201

Panel # 57: 18 × 17.9; 20 19

Panel # 58: 23 × 22.5; 152 151

Total Initial SF This Page 25,177 SF

Total Final SF This Page 24,450 SF

Anchor Trench

Total Linear feet trench LF

X

Depth and width allowed in trench LF

= Total SF in Trench SF

Total Pay Area This Page 24,450 SF

Total Previous Pages 106,878 SF

Total Pay Area to Date 131,328 SF

American Environmental Group, Ltd.

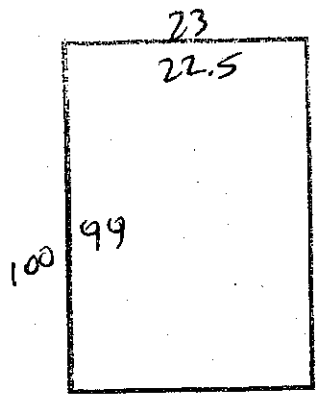
Daily Panel Placement

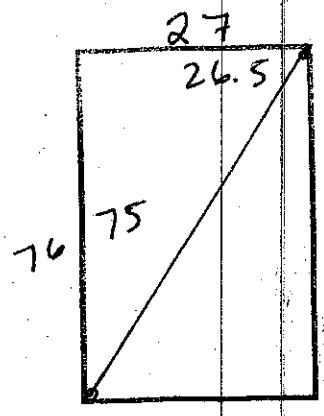
Deployment Date 5-23-06

Project Name: ASARCO Job # 306048 Supt: ELEAZAR GARZA

Material: Primary [X] Secondary [ ] Pond # Cell # Pad # Other: POND A

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
59	1246	2300	2227	
60	1246	1026	993	





Total Initial SF This Page 3326 SF

Total Final SF This Page 3220 SF

Anchor Trench

Total Linear feet trench ____ LF

X

Depth and width allowed in trench ____ LF

= Total SF in Trench ____ SF

Total Pay Area This Page 3220 SF

Total Previous Pages 131,328 SF

Total Pay Area to Date 134,548 SF

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	Entact Services LLC
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco
	Richfield, OH 44286	LOCATION:	ElPaso, TX
		PROJECT #	306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

PANELS 1 THRU 15

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
Jorge Carbajal Ruiz	Jorge Carbajal Ruiz	QA-QC	5-18-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Wilfert	Mark Wilfert	HSO	5-18-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	Entact Services LLC
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco
	Richfield, OH 44286	LOCATION:	ElPaso, TX
		PROJECT #	306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by PANELS 16 THRU 22

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
JORGE CARBAJAL RUIZ	Jorge Carbajal Ruiz	QA-QC	5-19-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Willert	Mark Willert	HSO	5-19-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	Entact Services LLC
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco
	Richfield, OH 44286	LOCATION:	ElPaso, TX
		PROJECT #	306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

PANELS 23 THRU 32 —

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
JORGE CORBAJAL RUIZ	JORGE CORBAJAL RUIZ	QA-QC	5-20-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Wilfert	Mark Wilfert	HSO	5-20-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	Entact Services LLC
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco
	Richfield, OH 44286	LOCATION:	ElPaso, TX
		PROJECT #	306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

PANELS 33 THRU 37

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
JORGE CARDENAL RUIZ	JORGE CARDENAL RUIZ	QA-QC	5-21-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Willert	Mark Willert	HSO	5-21-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	Entact Services LLC
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco
	Richfield, OH 44286	LOCATION:	ElPaso, TX
		PROJECT #	306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

PANELS 38 THRU 50 —

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
JORGE CARBAJAL RUIZ	Jorge Carbajal Ruiz	QA-QC	5-22-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Wilfert	Mark Wilfert	HSO	5-22-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	Entact Services LLC
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco
	Richfield, OH 44286	LOCATION:	ElPaso, TX
		PROJECT #	306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

PANELS 51 THRU 60

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
JORGE CARDIAL RUIZ	Jorge Cardial Ruiz	QA-QC	5-23-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Wilfert	Mark Wilfert	HSO	5-23-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.11 Bottom Liner Installation Field Quality Control, Landfill Cell 2

American Environmental Group Ltd.

Seam Control Form

Pond #B

Project Name: _____ **Job #** _____ **Superintendent:** Deth Phakonekham **Page** 1

Material Type: _____ **Primary** ☐ **Cell** ☐ **Air Pressure Test** _____ **PSI**

Job Description: _____ **Secondary** ☐ **Pond** ☐ **Air Pressure Hold Time** _____ **Minutes**

Reported By _____ **Other** _____ **Pad** ☐ **Allowable Air Pressure Loss** _____ **PSI**

Weld Date	Seam No.	Seam Length	Time Welded	Operator Name/ ID	Mach No.	Mach Speed	Mach Temp	Preheat Temp	Amb Temp	Test Date	Test Type	Air Test Time In	Air Test Time Out	Test Results
5-25-06	1 / 2	82	1:10	FA	2788	9	800			5-25-06	AT	230:30	235:30	P
	2 / 3	82	1:20									232:30	237:29	
	3 / 4	82	1:35									240 30	245 30	
	4 / 5	66	2 01									246 30	251 30	
	5 / 6	28	2 15									300 30	305 30	
	7 / 8	33	2 44									303 30	38 30	
	7 / 9	54	2 54									305 30	310 30	
	4 / 9	26	3 31									400 29	405 29	
	5 / 7	28	3 35									407 30	412 30	
	6 / 8	24	3 38									412 30	417 29	
	9 / 10	65	4 22									445 30	450 29	
	10 / 11	29	4 42									4:52 30	45:7 30	
	12 / 10	20	5 40									615 30	620 30	
	13 / 10	20	5 43									602 30	607 30	
	13 / 11	29	5 47									6:00 30	6:05 30	
	12 / 14	30	5:30									6:12 30	617 30	

American Environmental Group Ltd.

Pond - B

Seam Control Form

Job # _____ Superintendent: Deth Phakonekham Page 2

Project Name: _____

Material Type: _____

Job Description: _____

Reported By _____

Primary ☐ Secondary ☐ Other _____

Cell ☐ Pond ☐ Pad ☐

Air Pressure Test _____ PSI

Air Pressure Hold Time _____ Minutes

Allowable Air Pressure Loss _____ PSI

Weld Date	Seam No.	Seam Length	Time Welded	Operator Name/ ID	Mach #No.	Mach Speed	Mach Temp	Preheat Temp	Amb Temp	Test Date	Test Type	Air Test Time In	Air Test Time Out	Test Results
5.25.06	12 / 13	46	5:35	FA	2788	9	800		98°	5-25-06	AT	6:10 / 30	6:15 / 29	P
	12 / 15	86	5:53							5-26-06	AT	7:40 / 30	7:45 / 30	P
	15 / 16	92	6:30									7:43	30	P
	16 / 17	94	6:40									7:48 / 30	:29	P.
	1 / 18	78	6:52									7:45 / :30	7:50 / :30	P
	18 / 19	76	7:04									7:30 / :30	7:35 / :29	P
												7:32 / :30	7:37 / :29	
5-26-06	17 / 20	94	2:41	AC	2801	7	860		96°	5-26-06	AT	3:30 / 30	3:35 / 29	P
	20 / 21	92	2:58	FA	2788	10	—"—					3:35 / 30	3:40 / 30	P
	21 / 22	86	3:35	AC	2801	7	—"—					3:50 / 30	3:55 / 30	P
	22 / 24	42	4:00	AC	—"—	—"—	—"—					4:34 / 30	4:39 / 30	P
	22 / 23	40	4:06	—"—	—"—	—"—	—"—					4:30 / 30	4:35 / 30	P
	23 / 24	42	3:50	FA	2788	10	—"—					4:39 / 30	4:44 / 30	P
	23 / 25	79	4:00	—"—	—"—	—"—	—"—					4:43 / 30	4:48 / 29	P
	25 / 26	79	4:20	AC	2801	7	—"—					4:50 / 30	4:55 / 29	P

American Environmental Group Ltd.

Seam Control Form

Pond - B

Project Name: _____ Job # _____ Superintendent: Deth Phakonekham Page 3

Material Type: _____ Primary ☐ Secondary ☐ Cell ☐ Pond ☐ Pad ☐ Air Pressure Test _____ PSI

Job Description: _____ Other _____ Air Pressure Hold Time _____ Minutes

Reported By _____ Allowable Air Pressure Loss _____ PSI

Weld Date	Seam No.	Seam Length	Time Welded	Operator Name/ ID	Mach #No.	Mach Speed	Mach Temp	Preheat Temp	Amb Temp	Test Date	Test Type	Air Test Time In	Air Test Time Out	Test Results
5-26-06	26 / 28	45	6:25	FA	2788	10	800		96	5-27-06	AT	9:40 / 30	9:45 / 30	P
	26 / 27	23	6:29	-"-	-"-	-"-	-"-					9:40 / 30	9:45 / 30	P
	26 / 33	18	6:31	-"-	-"-	-"-	-"-					10:10 / 30	10:15 / 30	P
	28 / 29	35	6:10	-"-	-"-	-"-	-"-					9:19 / 30	9:24 / 30	P
	29 / 27	34	6:15	-"-	-"-	-"-	-"-					9:20 / 30	9:25 / 30	P
	27 / 28	23	6:18	-"-	-"-	-"-	-"-					9:30 / 30	9:35 / 30	P
	27 / 33	64	7:20	-"-	-"-	-"-	-"-					9:15 / 30	9:20 / 30	P
	33 / 35	48	7:00	-"-	-"-	-"-	-"-					8:40 / 30	8:45 / 30	P
	33 / 32	23	8:00	AC	2801	7	-"-					8:35 / 30	8:40 / 30	P
	34 / 36	51	7:40	-"-	-"-	-"-	-"-					9:00 / 30	9:05 / 29	P
	34 / 32	54	7:30	-"-	-"-	-"-	-"-					9:15 / 30	9:20 / 30	P
	32 / 31	58	7:00	-"-	-"-	-"-	-"-					8:30 / 30	8:35 / 30	P
	31 / 30	70	6:40	-"-	-"-	-"-	-"-					8:15 / 30	8:20 / 30	P
	30 / 29	76	6:45	-"-	-"-	-"-	-"-					8:10 / 30	8:15 / 30	P
	19 / 29	76	6:32	-"-	-"-	-"-	-"-					8:20 / 30	8:25 / 29	P
												:	:	

American Environmental Group Ltd.

Pond - B

Seam Control Form

Project Name: _____ Job # _____ Superintendent: Deth Phakonekham Page 4

Material Type: _____ Primary ☐ Secondary ☐ Cell ☐ Pond ☐ Pad ☐ Air Pressure Test _____ PSI

Job Description: _____ Other _____ Air Pressure Hold Time _____ Minutes

Reported By _____ Allowable Air Pressure Loss _____ PSI

Weld Date	Seam No.	Seam Length	Time Welded	Operator Name/ ID	Mach #No.	Mach Speed	Mach Temp	Preheat Temp	Amb Temp	Test Date	Test Type	Air Test Time In	Air Test Time Out	Test Results
5-26-06	19 / 37	6	6:37	FA	2788	10	800		96°	5-27-06	AT	8:05 / 30	8:10 / 30	P
	21 / 37	6	6:38		-"-	-"-	-"-					8:05 / 30	8:10 / 30	P
	22 / 37	23	6:45		-"-	-"-	-"-					10:20 / 30	10:25 / 30	P
	23 / 37	16	6:47		-"-	-"-	-"-					10:20 / 30	10:25 / 30	P
	25 / 37	23	7:36		-"-	-"-	-"-					10:22 / 30	10:22 / 30	P
	26 / 37	17	7:58	AC	2801	7	-"-					10:05 / 30	10:10 / 30	P
	4 / 12	8	5:00	FA	2788	10	-"-			5-26-06	AT	5:15 / 30	5:20 / 30	P
	3 / 15	23	5:03		-"-	-"-	-"-					5:22 / 30	5:22 / 30	P
	2 / 16	23	5:05		-"-	-"-	-"-					5:27 / 30	5:32 / 30	P
	1 / 17	23	5:08		-"-	-"-	-"-					5:40 / 30	545 / 30	P
	18 / 20	23	5:10		-"-	-"-	-"-					5:43 / 30	5:48 / 30	P
	19 / 21	28	5:12		-"-	-"-	-"-					5:49 / 30	5:54 / 30	P
5-27-06	29 / 37	23	8:20	FA	2788	7	800		94°		AT	10:10 / 30	10:15 / 30	P
	30 / 37	23	8:23		-"-	-"-	-"-					10:12 / 30	10:17 / 30	P
	31 / 37	23	8:25		-"-	-"-	-"-					9:50 / 30	9:51 / 30	P
												:	:	

American Environmental Group Ltd.

REPAIR REPORT

Page: 1

Project Name: Asarco

Project Manager:

Supintendent:

	HDPE	Date:
	HDT	Job#: 306048
	PPR	Thickness:
	Other: POND B	

Primary Secondary Other

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data: Test	Results	Date
R-1	TJ	5/6-8	24 S	P	2x2	VT ST PT	P F	5-27-06
R-2	—"—	5/7-8	30 S	—"—	2x2	VT ST PT	P F	
R-3	EXT	5-8	24-30 S	EXT	6	VT ST PT	P F	
R-4	TJ	5/7-9	58 S	P	2x2	VT ST PT	P F	
R-5	—"—	9/4-5	64 S	—"—	2x2	VT ST PT	P F	
R-6	EXT	5-9	58-64	EXT	6	VT ST PT	P F	
R-7	DS-1	9/10	25 E	P	4x2	VT ST PT	P F	
R-8	TJ	13/11-10	29 E	—"—	2x2	VT ST PT	P F	
R-9	—"—	10/12-13	49 E	—"—	2x2	VT ST PT	P F	
R-10	—"—	12/13-14	30 N	—"—	2x2	VT ST PT	P F	
R-11	—"—	12-13/4-9-10	65 E	—"—	3x4	VT ST PT	P F	
R-12	—"—	12-15/3-4	8 E	—"—	2x2	VT ST PT	P F	
R-13	—"—	2-3/15-16	31 E	—"—	2x2	VT ST PT	P F	
R-14	—"—	2-1/16-17	54 E	—"—	2x2	VT ST PT	P F	
R-15	—"—	1-18/17-20	77 E	—"—	2x2	VT ST PT	P F	
R-16	—"—	18-19/20-21	100 E	—"—	2x2	VT ST PT	P F	
R-17	—"—	19-21/37	122 E	—"—	2x3	VT ST PT	P F	
R-18	—"—	19/29-37	26 S	—"—	2x2	VT ST PT	P F	
R-19	—"—	29-30/37	70 S	—"—	2x2	VT ST PT	P F	
R-20	—"—	30-31/37	70 S	—"—	2x2	VT ST PT	P F	
R-21	—"—	31/33-37	70 S	—"—	2x2	VT ST PT	P F	
R-22	—"—	31/32-33	58 S	—"—	2x2	VT ST PT	P F	
R-23	—"—	26-33/32-34-35	118 W	—"—	3x3	VT ST PT	P F	
R-24	—"—	26/27-33	68 N	—"—	2x3	VT ST PT	P F	
R-25	—"—	26/27-28	45 N	—"—	2x2	VT ST PT	P F	
R-26	—"—	27/28-29	35 N	—"—	2x2	VT ST PT	P F	
R-27	DS-2	16/17	75' N	—"—	4x2	VT ST PT	P F	
R-28	DS-3	23/25	40 N	—"—	4x2	VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
EE - Earthwork Equipment Damage
FM - Fish Mouth
ES- Exposed Scrim
SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group Ltd.

REPAIR REPORT

Page: 2

Project Name: Asarco

Project Manager:

Supintendent:

	HDPE	Date:
	HDT	Job#: 306048
	PPR	Thickness:
	Other: POND B	

Primary Secondary Other

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data: Test	Results	Date
R.29	DS-4	29/30	50 - S	P	4x2	VT ST PT	P F	5-27-06
R.30	DS-5	22/37	123 E	—"—	4x2	VT ST PT	P F	
R.31	TT	21/22-37	86 N	—"—	2x2	VT ST PT	P F	
R.32	—"—	22/23-24	42 N	—"—	2x2	VT ST PT	P F	
R.33	—"—	22/23-37	145 E	—"—	2x2	VT ST PT	P F	
R.34	—"—	23-25/37	161 E	—"—	2x2	VT ST PT	P F	
R.35	—"—	25-26/37	184' E	—"—	2x2	VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
EE - Earthwork Equipment Damage
FM - Fish Mouth
ES- Exposed Scrim
SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group Ltd.

PRE-WELD / DESTRUC VE SAMPLE INFORMATION

Project Name: Asarco **Job#:** 306048 Pond - B

Project Manager: **Primary** **Secondary** **Other:**

Superintendent: **Material:**

Reported By: [✓] **Preweld Test** [ ] **Destructive Test**

Peel Test(Extr.) min ppi Peel Test(Fusion) ppi Shear Test mim ppi

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Coupon 4 A / B	Coupon 5 A / B	Coupon 1 Shear	Coupon 2 Shear	Results	Notes
		1:56	5-22-06	FA, 800/9	2788	115 / 112	127 / 115	117 / 115	/	148	146	150	(P) F	
		2:03	—"—	AC, 800/9	2801	118 / 128	129 / 121	116 / 120	/	16d	162	148	(P) F	
		1:00	5-23-06	FA, 800/9	2788	106 / 112	108 / 112	110 / 116	/	138	140	140	(P) F	
		1:10	—"—	AC, 800/9	2801	112 / 110	110 / 110	116 / 108	/	142	146	140	(P) F	
		8:00	5-24-06	AC	G#3	104 /	116 /	126	/	136	132	128	(P) F	
		8:05	—"—	FA, 800/7	2788	110 / 115	110 / 108	113 / 115	/	132	120	126	(P) F	
		8:10	—"—	EG, 240/175	G# 127	105 /	112	108	/	135	140	138	(P) F	
		8:20	—"—	MV, 280/175	G# 20	117 /	118 /	118 /	/	150	142	138	(P) F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
		1:00	5-25-06	FA, 800/9	2788	118 / 116	108 / 112	112 / 116	/	130	128	132	(P) F	
		2:34	5-26-06	AC, 800/7	2801	120 / 116	118 / 116	121 / 118	/	138	140	136	(P) F	
		2:40		FA, 800/10	2788	110 / 110	108 / 106	112 / 110	/	138	132	132	(P) F	
		5:20	↓	EG, 280/175	G#3	128 /	126	118	/	140	142	146	(P) F	
		8:00	5-27-06	FA, 800/7	2788	122 / 116	124 / 118	116 / 115	/	146	150	148	(P) F	
		8:45		PA, 280/130	G# 3	128 /	132 /	136	/	15½	148	150	(P) F	
		8:50		EG, 28/175	G#20	132 /	128 /	126	/	160	150	142	(P) F	

Samples Sent Via: Last Sample #: On (Date):

Notes:

American Envi(mental Group, Ltd.
Pre-Weld / Destrucuve Sample Information

Pond - B

Project Name: ASARCO **Job#:** 306048

Project Manager: **Primary** **Secondary** **Other:**

Superintendent: **Material:**

Reported By: [ ] Preweld Test [✓] Destructive Test

Peel Test(Extr.) min ppi Peel Test(Fusion) ppi Shear Test mim ppi

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Coupon 4 A / B	Coupon 5 A / B	Coupon 1 Shear	Coupon 2 Shear	Results	Notes
DS-1	9/10	4:22	5-25-06	FA	2788	136/119	123/137	145/122	131/123	140/126			P F	
						183	168	182	180	176			(P) F	
DS-2	16/17	6:40	5-25-06	FA	2788	125/125	142/124	128/123	119/136	132/126			P F	
						186	188	172	164	180			(P) F	
DS-3	23/25	4:00	5-26-06	FA	2788	109/120	101/114	119/129	117/135	122/126			P F	
						170	170	168	166	172			(P) F	
DS-4	29/30	6:40	5-26-06	AC	2801	131/127	126/125	128/126	125/125	122/128			P F	
						186	178	180	176	176			(P) F	
DS-5	22/37	6:45	52606	FA	2788	123/108	135/110	129/108	125/120	125/116			P F	
						168	172	186	168	170			(P) F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	

Samples Sent Via: Last Sample #: On (Date):

Notes:

American Environmental Group Ltd.

PRE-WELD / DESTRUCTIVE SAMPLE INFORMATION

Project Name: Asarco **Job#:** 306048 Pond - A

Project Manager: **Primary** **Secondary** **Other:**

Superintendent: **Material:**

Reported By: [✓] **Preweld Test** [ ] **Destructive Test**

D.S. No.		Weld Time	Weld Date	Operator Name/ ID	Machine Number	Peel Test(Extr.) min ppi Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Coupon 4 A / B	Peel Test(Fusion) ppi Coupon 5 A / B	Shear Test mim ppi Coupon 1 Shear	Coupon 2 Shear	Results	Notes
	800/6.5	12:40	5-18-06	AC	2801	106/107	100/104	109/101	/	145	138	143	(P) F	S/S
	—"—	12:45		FA	2788	113/109	111/100	110/106	/	140	142	136	(P) F	—"—
	—"—	3:00	↓	FA	2788	115/113	118/123	116/122	/	142	142	140	(P) F	S/T
	—"—	3:05		AC	2801	120/122	116/118	110/118	/	132	140	136	(P) F	—"—
	800/9	2:00	5-19-06	FA	2788	141/117	141/118	127/105	/	137	148	142	(P) F	S/S
	—"—	2:05		—"—	—"—	122/120	116/126	118/120	/	146	140	146	(P) F	S/T
	800/7	2:10	↓	AC	2801	121/120	124/121	125/127	/	131	140	142	(P) F	S/S
	—"—	2:15		—"—	—"—	120/127	125/120	127/116	/	138	140	136	(P) F	S/T
	800/7	8:00	5-20-06	FA	2788	114/120	124/123	127/123	/	136	138	140	(P) F	S/S
	—"—	8:05		—"—	—"—	116/118	112/110	120/118	/	140	142	136	(P) F	S/T
	—"—	8:10		AC	2801	119/112	122/115	118/115	/	138	142	146	(P) F	S/S
	800/9	2:06		FA	2788	132/129	128/126	133/135	/	128	148	132	(P) F	S/S
	—"—	2:15		AC	2801	114/127	112/121	122/128	/	138	140	130	(P) F	—"—
	800/7	7:10	5-21-06	FA	2788	120/112	116/108	117/115	/	142	142	146	(P) F	S/S.
	285/275	9:45		AC	G#3	132/	148/	138	/	148	146	140	(P) F	
	240/175	9:50	↓	EG	G#127	140/	126/	132	/	146	152	138	(P) F	
						/	/	/	/	/			P F	

Samples Sent Via: Last Sample #: On (Date):

Notes: S/S = Smooth to Smooth
S/T = Smooth to Textured
T/T = Textured to Textured

American Environmental Group Ltd.

PRE-WELD / DESTRUCTIVE SAMPLE INFORMATION

Project Name: Asarco **Job#:** 306048 Pond - A

Project Manager: **Primary** **Secondary** **Other:**

Superintendent: **Material:** 6mil TexTure

Reported By: [ ] Preweld Test [✓] Destructive Test

Peel Test(Extr.) min ppi Peel Test(Fusion) ppi Shear Test mim ppi

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Coupon 4 A / B	Coupon 5 A / B	Coupon 1 Shear	Coupon 2 Shear	Results	Notes
DS-1	3/4	1:25	5-18-06	FA	2788	119/122	122/131	128/128	127/121	125/127			P F	
						153	163	150	158	160			(P) F	S/S
DS-2	8/9	3:15	5-18-06	AC	2801	119/105	110/108	122/108	115/103	110/112			P F	
						140	136	148	132	142			(P) F	S/S
DS-3	16/17	3:03	5-19-06	FA	2788	113/112	108/117	130/122	116/108	122/116			P F	
						149	146	156	132	146			(P) F	S/S
DS-4	19/20	5:25	5-19-06	AC	2801	117/112	120/116	126/114	120/118	122/116			P F	
						150	148	136	138	140			(P) F	S/S
DS-5	15/22	9:34	5-20-06	FA	2788	133/122	127/128	121/129	123/124	126/122			P F	
						152	158	164	150	156			(P) F	S/T
DS-6	27/28	3:22	5-20-06	AC	2801	123/120	120/126	107/110	105/116	120/112			P F	
						138	146	159	162	152			(P) F	S/S
DS-7	30/31	4:10	5-20-06	FA	2788	129/128	126/126	118/120	122/126	120/116			P F	
						162	160	148	150	160			(P) F	S/S
DS-8	32/33	8:00	5-21-06	FA	2788	117/113	116/118	111/108	118/116	105/120			P F	
						160	156	148	152	148			(P) F	S/S
DS-9	39/40	2:23	5-22-06	AC	2801	116/123	111/120	116/118	126/120	118/126			(P) F	S/S
						144	154	158	150	152				

Samples Sent Via: Last Sample #: On (Date):

Notes:

American Environmental Group Ltd.

PRE-WELD / DESTRUCTIVE SAMPLE INFORMATION

Project Name: Asarco **Job#:** 306048 Pond-A

Project Manager: **Primary** **Secondary** **Other:**

Superintendent: **Material:**

Reported By: [ ] **Preweld Test** [✓] **Destructive Test**

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Peel Test(Extr.) min ppi Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Peel Test(Fusion) ppi Coupon 4 A / B	Coupon 5 A / B	Coupon 1 Shear	Coupon 2 Shear	Shear Test mim ppi Results	Notes
2S-10	42/44	3:52	5-22-06	FA	2788	119/124	120/119	108/116	121/115	117/122			P F	
						140	148	152	150	146			(P) F	S/S
2S-11	47/48	5:30	5-22-06	AC	2801	116/103	119/106	111/118	105/116	116/121			P F	
						135	142/	140/	138/	138/			(P) F	S/S
2S-12	51/53	1:45	5-23-06	FA	2788	115/118	120/116	118/106	105/113	118/120			P F	
						138/	140	146	142	138			(P) F	S/S
2S-13	56/58	6:25	5-23-06	FA	2788	116/118	120/118	114/116	117/119	108/110			P F	
						132/	132/	136/	140	140			(P) F	S/S
2S-14	56/29	8:05	5-24-06	FA	2788	117/124	122/127	112/122	128/122	120/118			P F	
						146	144	150	153	150			(P) F	T/T
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	
						/	/	/	/	/			P F	

Samples Sent Via: Last Sample #: On (Date):

Notes:

American Environmental Group, Ltd.

Daily Panel Placement

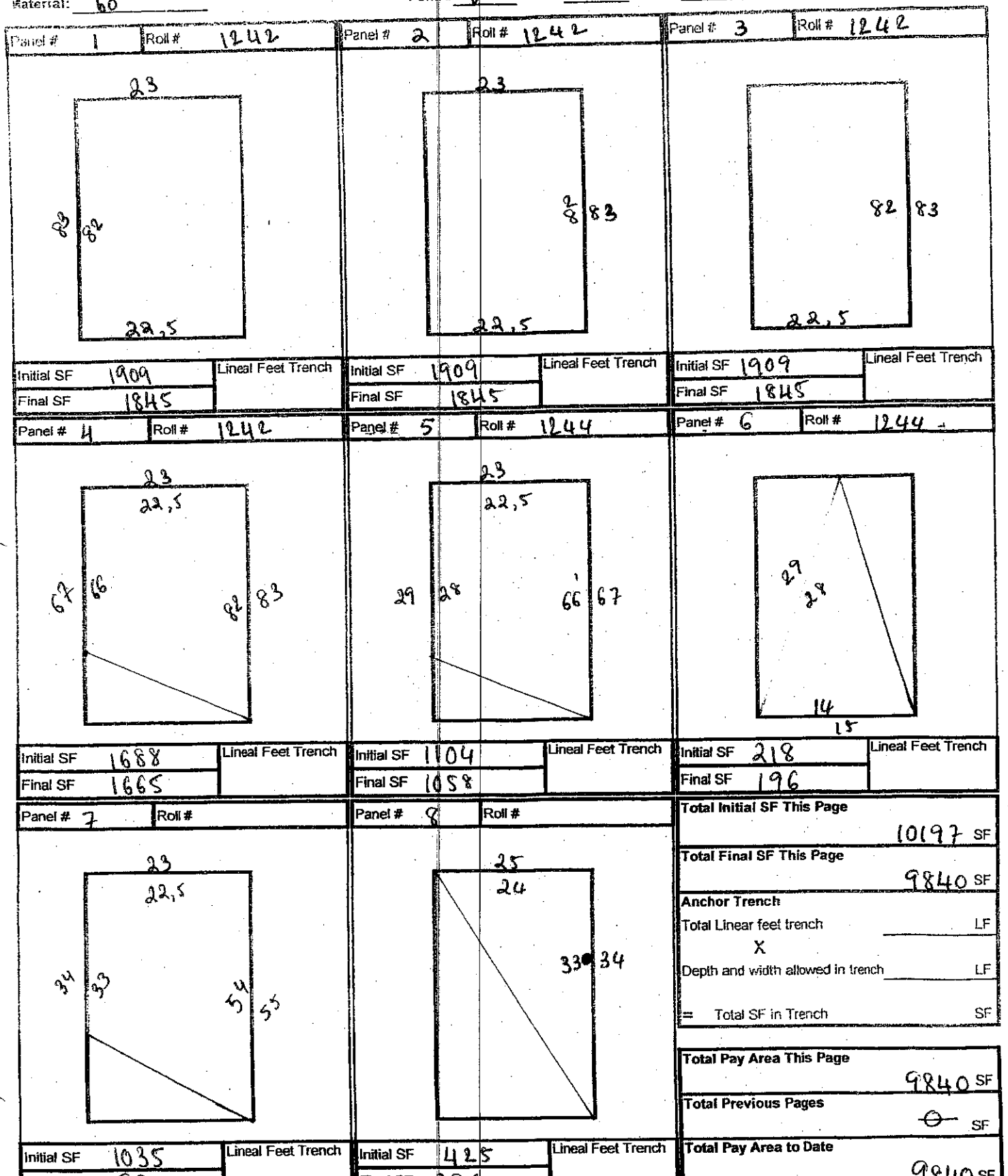
Page 1 of

Deployment Date 5-25-06

Project Name: ASARCO Job # 306048 Supt:

Material: 60 Primary [✓] Secondary [ ] Pond # ✓ Cell # Pad # Other: Pond - B

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
1	1242	1909	1845	
2	1242	1909	1845	
3	1242	1909	1845	
4	1242	1688	1665	
5	1244	1104	1058	
6	1244	218	196	
7		1035	990	
8		425	396	



Total Initial SF This Page	10197 SF
Total Final SF This Page	9840 SF
Anchor Trench	
Total Linear feet trench	LF
X	
Depth and width allowed in trench	LF
= Total SF in Trench	SF
Total Pay Area This Page	9840 SF
Total Previous Pages	0 SF
Total Pay Area to Date	9840 SF

American Environmental Group, Ltd.

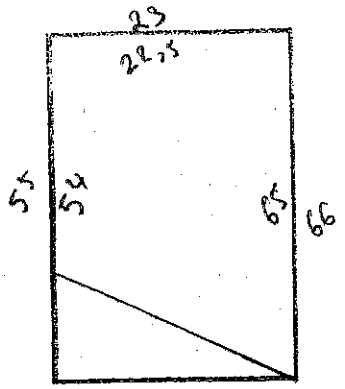
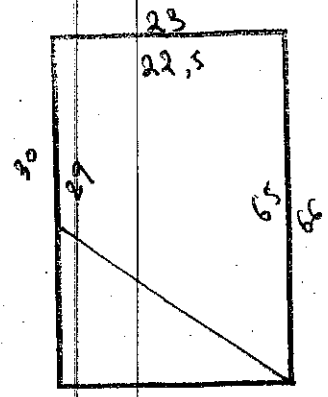
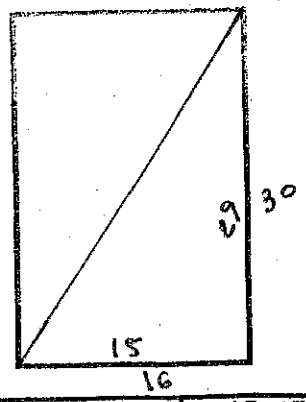
Daily Panel Placement

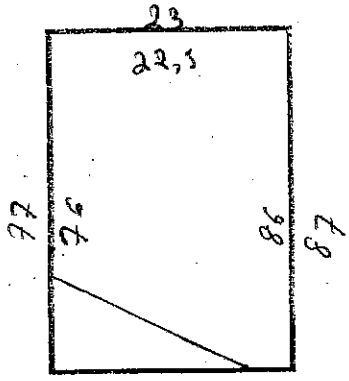
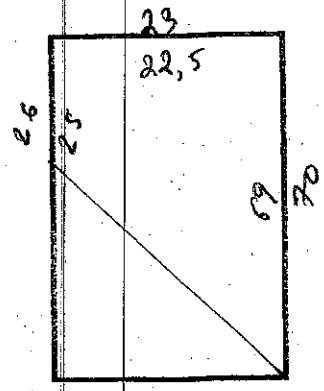
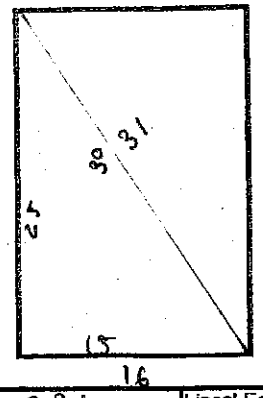
Page 2 of

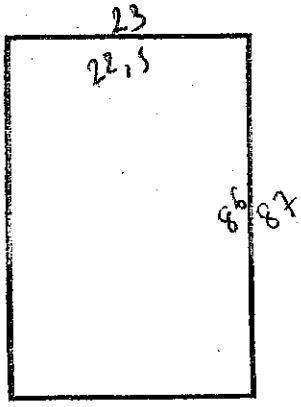
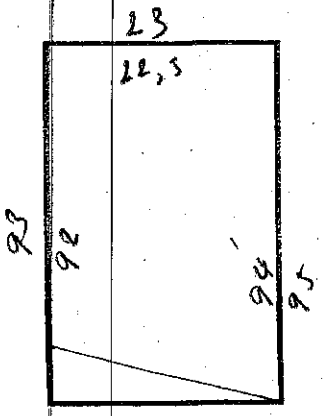
Deployment Date 5-25-06

Project Name: Job # Supt:

Material: Primary [ ] Secondary [ ] Pond # Cell # Pad # Other: Pond - B

Panel # 9	Roll # 1242	Panel # 10	Roll # 1242	Panel # 11	Roll # 1242
					
Initial SF 1403	Lineal Feet Trench	Initial SF 1104	Lineal Feet Trench	Initial SF 240	Lineal Feet Trench
Final SF 1350		Final SF 1058		Final SF 218	

Panel # 12	Roll # 1246	Panel # 13	Roll # 1246	Panel # 14	Roll # 1246
					
Initial SF 1886	Lineal Feet Trench	Initial SF 1104	Lineal Feet Trench	Initial SF 334	Lineal Feet Trench
Final SF 1823		Final SF 1058		Final SF 210	

Panel # 15	Roll # 0550	Panel # 16	Roll # 0550
			
Initial SF 2001	Lineal Feet Trench	Initial SF 2162	Lineal Feet Trench
Final SF 1935		Final SF 2093	

Total Initial SF This Page	10234 SF
Total Final SF This Page	9745 SF
Anchor Trench	
Total Linear feet trench	LF
X	
Depth and width allowed in trench	LF
= Total SF in Trench	SF
Total Pay Area This Page	9745 SF
Total Previous Pages	9840 SF
Total Pay Area to Date	19585 SF

American Environmental Group, Ltd.

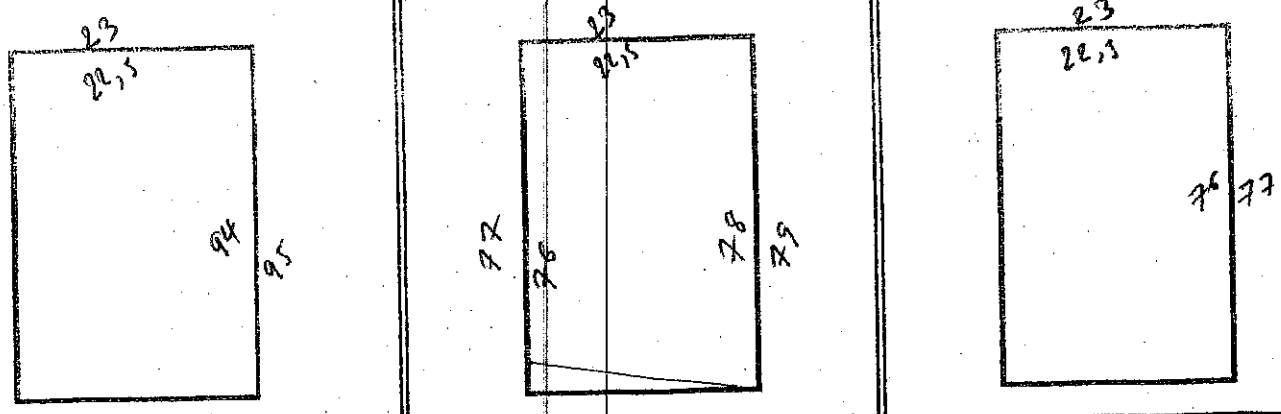
Daily Panel Placement

Deployment Date 5-25-06

Project Name: Job # Supt:

Material: Primary [ ] Secondary [ ] Pond # Cell # Pad # Other: Pond - B

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
17	0550	2185	2115	
18	0550	1794	1733	
19	0550	1771	1710	



Total Initial SF This Page 5750 SF

Total Final SF This Page 5558 SF

Anchor Trench

Total Linear feet trench LF

X

Depth and width allowed in trench LF

= Total SF in Trench SF

Total Pay Area This Page 5558 SF

Total Previous Pages 19585 SF

Total Pay Area to Date 25143 SF

American Environmental Group, Ltd.

Daily Panel Placement

Deployment Date 5-26-06

Project Name: _____ Job # _____ Supt: _____

Material: _____ Primary [ ] Secondary [ ] Pond # _____ Cell # _____ Pad # _____ Other: Pond - B

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
20	9600	2162	2093	
21	9600	2070	2003	
22	9600	1955	1890	
23	9600	1426	1373	
24	9600	151	126	
25	9600	1840	1778	
26	9600	1932	1868	
27	0550	1426	1373	

Total Initial SF This Page	12962 SF
Total Final SF This Page	12504 SF
Anchor Trench	
Total Linear feet trench	LF
X	
Depth and width allowed in trench	LF
= Total SF in Trench	SF
Total Pay Area This Page	12504 SF
Total Previous Pages	25143 SF
Total Pay Area to Date	37647 SF

American Environmental Group, Ltd. Page 3

Daily Panel Placement

Deployment Date 5-26-06

Project Name: Job # Supt:

Material: Primary [ ] Secondary [ ] Pond # Cell # Pad # Other: Pond - B

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
28	0174	943	900	
29	1248	1702	1643	
30	1248	1633	1575	
31	1248	1495	1440	
32	1248	1311	1260	
33	1248	1472	1418	
34	1248	715	675	
35	1248	466	432	

Total Initial SF This Page 9737 SF

Total Final SF This Page 9343 SF

Anchor Trench

Total Linear feet trench LF

X

Depth and width allowed in trench LF

= Total SF in Trench SF

Total Pay Area This Page 9343 SF

Total Previous Pages 37647 SF

Total Pay Area to Date 46990 SF

American Environmental Group, Ltd.

Page 6

Daily Panel Placement

Deployment Date 5-26-06

Project Name: _____ Job # _____ Supt: _____

Material: _____ Primary [ ] Secondary [ ] Pond # _____ Cell # _____ Pad # _____ Other: Pond - B

Panel #	Roll #	Initial SF	Final SF	Lineal Feet Trench
36	1248	689	650	
37	1248	828	748	

27 26 51

12 11 68 69

Total Initial SF This Page	2915 SF
Total Final SF This Page	1398 SF
Anchor Trench	
Total Linear feet trench	LF
X	
Depth and width allowed in trench	LF
= Total SF in Trench	SF
Total Pay Area This Page	1398 SF
Total Previous Pages	46990 SF
Total Pay Area to Date	48388 SF

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER

COMPANY: American Environmental Group, Ltd.

ADDRESS: 3600 Brecksville Rd, Suite 100

Richfield, OH 44286

PROJECT

OWNER: Entact Services LLC

PROJECT: Asarco

LOCATION: ElPaso, TX

PROJECT # 306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

PANELS 1 THRU 19

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
JORGE ORBAJAL RUIZ	JORGE ORBAJAL RUIZ	QA-QC.	5-25-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Wilfert	Mark Wilfert	HSO	5-25-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER

COMPANY: American Environmental Group, Ltd.

ADDRESS: 3600 Brecksville Rd, Suite 100

Richfield, OH 44286

PROJECT

OWNER: Entact Services LLC

PROJECT: Asarco

LOCATION: ElPaso, TX

PROJECT # 306048

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

PANEL 20 THRU 37

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
JORGE CARBAJAL RUIZ	JORGE CARBAJAL RUIZ	QA-QC	5-26-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Mark Wilfert	Mark Wilfert	H&D	5-26-06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H. 12 Bottom Liner Installation Field Quality Control, Landfill Cell 3

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

SUBGRADE ACCEPTANCE

PROJECT NAME: ASARCO EL PASO

PROJECT NUMBER: 08-02-1019

OWNER: ASARCO

LOCATION: POND 6

I, undersigned, a duly appointed representative of Environmental Specialties International, Inc., have visually observed the soil subgrade surface described below, and found it to be an acceptable surface on which to install geomembrane.

The certification is based on observations of the subgrade only. No subterranean inspections or tests have been performed by Environmental Specialties International, Inc. and ESI makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Environmental Specialties International, Inc. accepts no responsibility for conformance of the subgrade to this project's specifications.

Area Being Accepted :

Date: 4/14/08

Signature:

Name: JOSE N REYES

Title:

OWNERS REPRESENTATIVE:

Date: 4/14/08

Signature:

Name: GARY MARKUM

Title: QA/QC

Company: ENTACT

GCL AND 60 MIL HDPE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT
environmental tactics in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: GCL Lo-Bentomat DN, 60 mil HDPE

DATE INSTALLED: 4/14/2008

WEATHER:

TEMP RANGE: 51-83

WIND / SPEED / DIR: ESE 5- 8 mph

RAIN: 0"

SIGNED: Gary Mk

(Signature and Date)

GARY MARKUM

(Printed Name)

ASARCO EL PASO

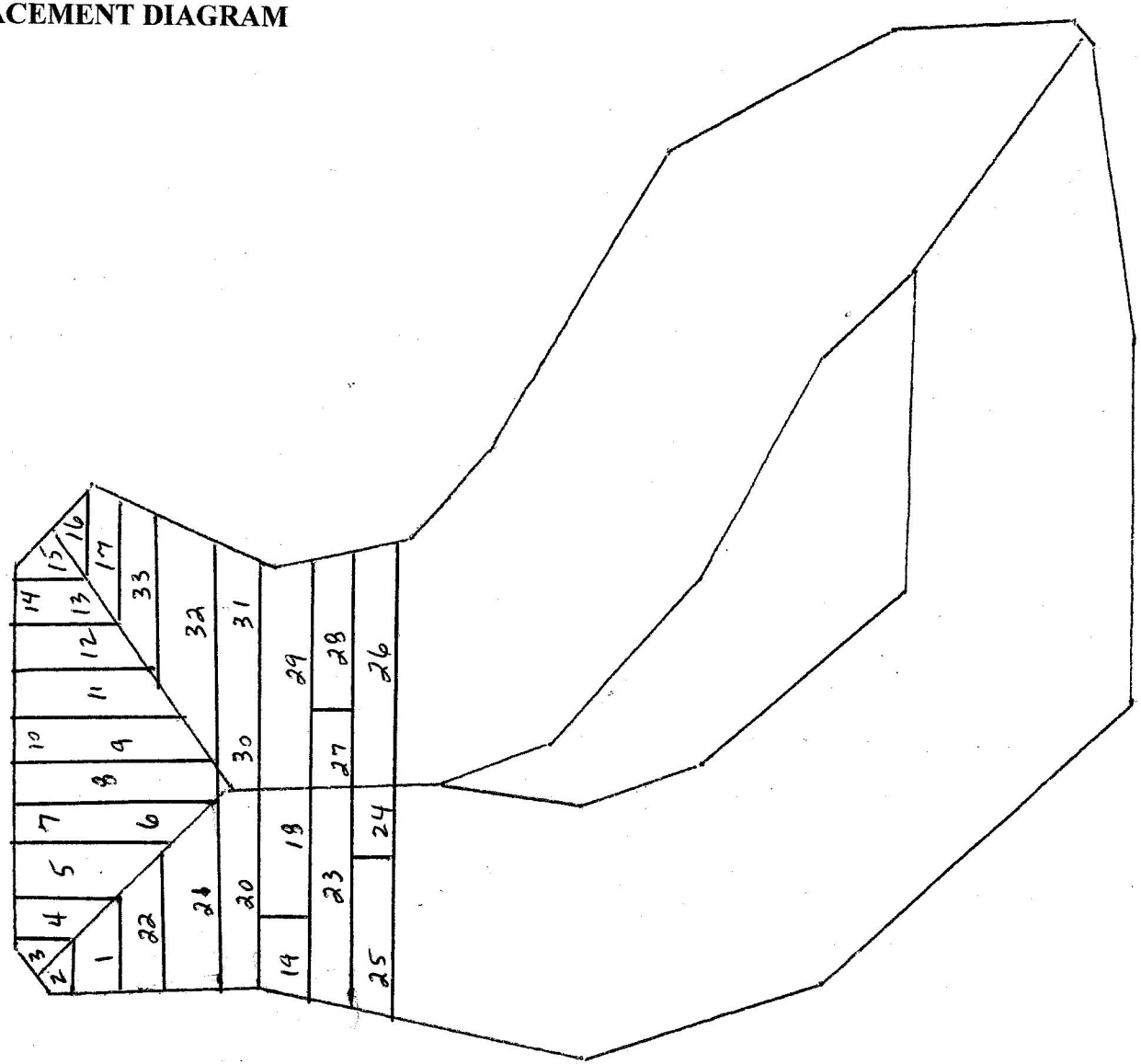
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 4/14/08

LINER MATERIAL: LO-BONTOMAT DN

NORTH



GCL INSPECTION SHEET

ENTACT
environmental tactics in waste management

INSPECTION DATE: 4/14/08

DESCRIPTION	TECHNICALLY ADEQUATE Y	N	COMMENTS
GCL Materials			
Correct type and orientation of GCL on floor and sidewalls	Y		
GCL Roll inspection	Y		
Log of Roll #'s	Y		
Storage Area	Y		
GCL Installation			
Dates GCL and cover was installed	Y		DATE OF INSPECTION 4.14.08
GCL Panel Layout	Y		
Sub grade rolled with smooth drum roller and maintained in suitable condition	Y		
Seam lapping in accordance with SLQCP; bentonite added as required by SLQCP	Y		
GCL panels placed by unrolling	Y		
Anchor trenches properly prepared and backfilled	Y		
GCL properly tied into adjacent lined areas	Y		
Conformance test performed	Y		
Damage / Folds		N	

ASARCO EL PASO

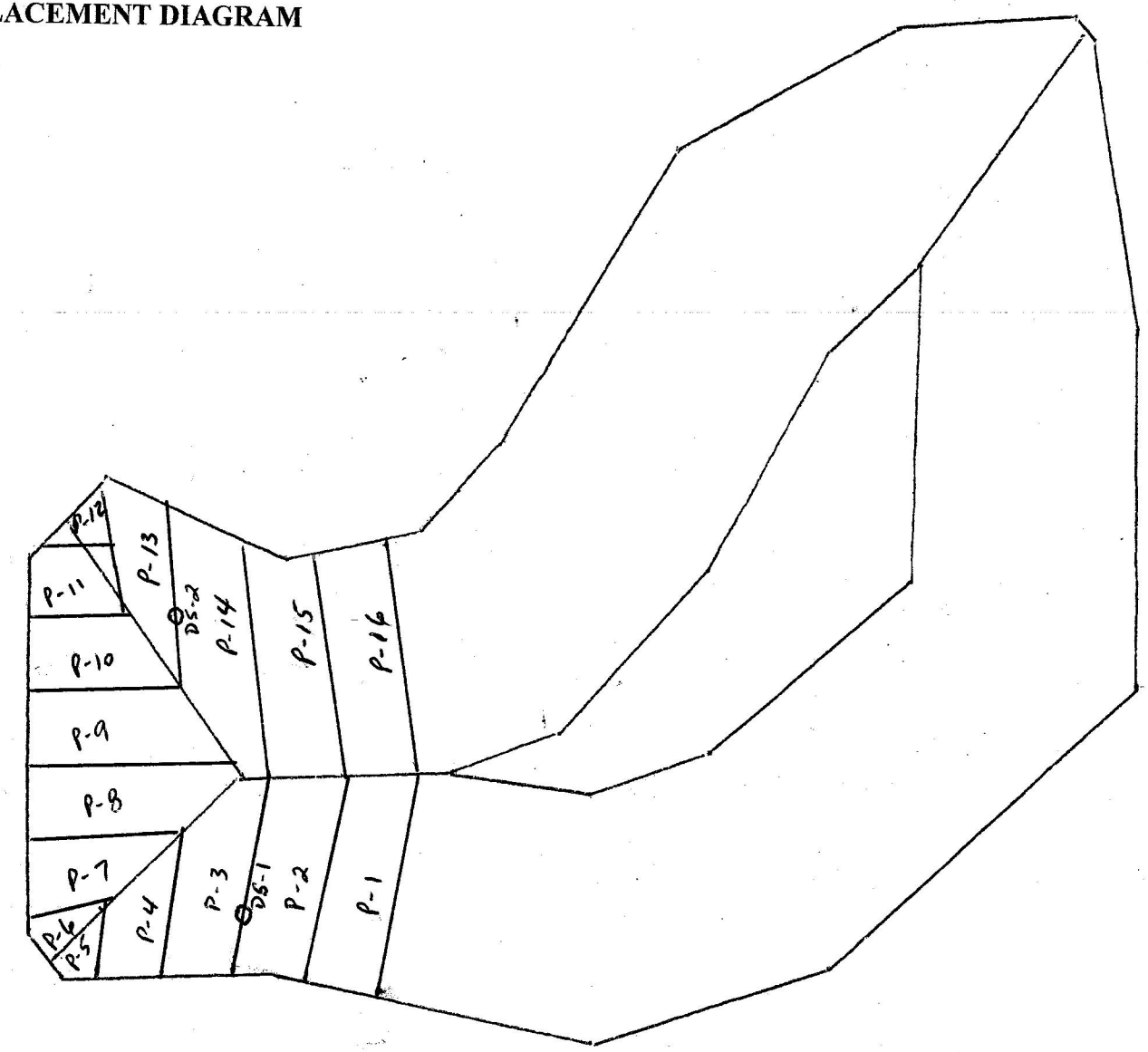
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 4/14/08

LINER MATERIAL: 60 mil HDPE

NORTH



ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

DESTRUCTIVE TEST LOG

PROJECT NAME: ASALCO EL PASO PROJECT NO. 08-02-1019 PAGE (1) of _____

Date	Sample ID	Seam #	Machine #	Seamer Initials	Peel Values lbs/inch Specified Value _____					Shear Values lbs/inch Specified Value 120					Pass/Fail	Lab Pass/Fail	Comments
4-14-08	DS-1	P-3 P-2	833	A.A	inner	132	130	129	128	183	175	170			P		
					outer	133	126	130	124								
4-14-08	DS-2	P-14 P-13	833	A.P	inner	133	134	152	156	176	170	186			P		
					outer	123	117	130	131								
4-15-08	DS-3	P-19 P-20	833	A.P	inner	124	122	124	129	171	167	166			P		
					outer	119	120	120	125								
4-15-08	DS-4	P-26 P-27	836	P.T	inner	124	119	117	121	171	168	167			P		
					outer	122	121	119	120								
4-16-08	DS-5	P-32 P-33	836	P.T	inner	145	146	133	134	180	176	175			P		
					outer	135	140	121	134								
4-16-08	DS-6	P-43 P-44	836	P.T	inner	121	135	129	140	170	169	171			P		
					outer	130	137	135	139								
4-16-08	DS-7	P-50 P-16	833	A.P	inner	128	127	120	121	166	169	169			P		
					outer	127	130	127	130								
4-16-08	DS-8	P-53 P-54	836	PT	inner	126	128	135	126	177	175	169			P		
					outer	130	129	135	130								
4-16-08	DSE-9		510	J.T	inner	120	130	141	139	157	166	159			P		
					outer												
4-16-08	DSE-10			AP	inner	127	142	131	143	160	158	161			P		
					outer												
					inner												
					outer												
					inner												
					outer												
					inner												
					outer												
					inner												
					outer												
					inner												
					outer												
					inner												
					outer												

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

TRIAL WELD INFORMATION

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE 1 of 1

Date &Time	Ambient Temp	QC Initial	Machine #	Seamer Initials	Extrusion Welds: Barrel Set	Extrusion Welds: Preheat Set	Fusion Welds: Wedge Set	Fusion Welds: Speed Setting		Peel Values lbs/inch (Specified Value ____)				Shear Values lbs/inch (Specified Value ____)					Comments
4-14-08 3:51	75°	JNR	836	AP			850	5.5	inner	131	111	89	80						
									outer	129	125	114	115	146	131				S/S
4-14-08 4:00	80°	"	833	A.A			860	5.5	inner	139	112	91	85						
									outer	129	124	119	115	142	133				S/S
4/15/08 7:00		"							inner										
									outer										
	80°	"	836	P.T			860	4.0	inner	115	135	126							
									outer	110	125	120		160	165				T/T
2:50	90°	"	836	A.T			860°	3.0	inner	120	105	106							
									outer	114	135	119		170	168				S/S
2:40	"	"	833	AP			850	5.0	inner	150	144	121							
									outer	130	126	119		160	166				S/S
									inner										
									outer										
4/16/08 7:20	75°	"	836	P.T			860	5.0	inner	125	121	125							
									outer	135	137	130		165	168	154			S/S
7:25	"	"	833	A.P			860	5.0	inner	131	154	160							
									outer	131	159	164		170	160	169			S/T
1:30	90°	"	833	A.P			860°	5.0	inner	135	140	125							
									outer	141	130	116		163	170	169			S/S
1:30	"	"	833	A.P			860	5.5	inner	141	126	128							
									outer	130	129	130		170	165	162			S/T
1:30	"	"	836	P.T			860°	4.0	inner	124	115	122							
									outer	110	117	119		155	160	145			T/T
2:00	"	"	510	JT	550	550	~~5~~	~~0~~	inner	122	127	119							
									outer	–	–	–		157	161	159			T/T
									inner										
									outer										
4/17/08 7:20	65°	JNR	510	JT	550°	550°	–	–	inner	120	115	130							
									outer					157	166	168			T/T
7:30	"	"	G#1	AP	550°	550°	–	–	inner	133	145	135							
									outer					199	190	175			T/T
									inner										
									outer										

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL PLACEMENT FORM

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE (1) of

Date	Panel #	Roll #	Panel Length	Panel Width	Comments/Panel Location	
4/14/08	P-1	4408	69' - 74'	22.5'	DEPLOYED SOUTH TO NORTH	1.609 SF.
"	P.2	4408	67' - 69'	22.5'	" " " "	1.530 SF.
"	P.3	4408	48' - 67'	22.5'	" " " "	1.294 SF.
"	P.4	4408	23' - 48'	22.5'	" " " "	799 SF.
"	P.5	4408	22' / 23'	19'	" " " "	209 SF.
"	P.6	4369	19' 27' / 16'	16'	DEPLOYED WEST TO EAST	216 SF.
"	P.7	4408	49' - 27	22.5'	" " " "	855 SF.
"	P.8	4408	67' - 49'	22.5'	" " " "	1.305 SF.
"	P.9	4408	50' - 67'	22.5	" " " "	1.316 SF.
"	P.10	4369	33' - 50'	22.5'	" " " "	434 SF
"	P-11	4369	24' - 30'	22.5'	" " " "	608 SF.
"	P.12	4369	30' / 17'	26'	DEPLOYED NORTH TO SOUTH	221 SF
"	P.13	4369	55' - 39'	22.5'	" " " "	1.058 SF.
"	P.14	4369	70' - 55'	22.5'	" " " "	1.406 SF.
"	P.15	4369	72' - 70'	22.5'	" " " "	1.598 SF.
"	P.16	4369	76' - 72	22.5'	" " " "	1.665 SF.
					16.623 SF.	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE 1 OF

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time Start	Weld Time Stop	Comments
4/14/08	1/2	# 833	W	69'	A.A	4:45		From NORTH TO SOUTH
"	2/3	# 833	W	67'	A.A	4:59		" " " "
"	3/4	# 833	W	48'	A.A	5:02		" " " "
"	4/5	# 833	W	23'	A.A	5:16		" " " "
"	7/6	# 836	W	27'	A.P	7:03		From WEST TO EAST.
"	7/8	# 833	W	49'	A.A	5:23		" EAST TO WEST
"	8/9	# 833	W	67'	A.A	5:47		" EAST TO WEST
"	9/10	# 833	W	50'	A.A	7:10		" " " "
"	10/11	# 833	W	33'	A.A	7:15		" " " "
"	11/12	# 836	W	30'	A.P	7:30		" " " "
"	13/12	# 836	W	17'	A.P	7:21		From NORTH TO SOUTH
"	13/11	# 836	W	23'	A.P	7:26		" " " "
"	14/13	# 836	W	55'	A.P	7:10		" " " "
"	15/14	# 833	W	70'	A.A	6:51		" " " "
"	16/15	# 833	W	72'	A.A	6:37		" " " "
4/15/08	3/8	# 836	W	25'	P.T	7:20		From EAST TO W.
"	4/7	# 836	W	29'	P.T	7:24		" " " "
"	4/6	# 836	W	7'	P.T	7:30		" " " "
"	5/6	# 836	W	23'	P.T	7:32		" " " "
"	9/14	# 836	W	29'	P.T	8:00		" SOUTH TO NORTH
"	10/13	# 836	W	29'	P.T	8:06		" " " "

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

SUBGRADE ACCEPTANCE

PROJECT NAME: ASARCO EL PASO

PROJECT NUMBER: 08-02-1019

OWNER: ASARCO

LOCATION: POND 6

I, undersigned, a duly appointed representative of Environmental Specialties International, Inc., have visually observed the soil subgrade surface described below, and found it to be an acceptable surface on which to install geomembrane.

The certification is based on observations of the subgrade only. No subterranean inspections or tests have been performed by Environmental Specialties International, Inc. and ESI makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Environmental Specialties International, Inc. accepts no responsibility for conformance of the subgrade to this project's specifications.

Area Being Accepted :

Date: 4/15/08

Signature:

Name: JOSE N REYES

Title:

OWNERS REPRESENTATIVE:

Date: 4/15/08

Signature:

Name: GARY MARKUM

Title: QA/QC

Company: ENTACT

GCL AND 60 MIL HDPE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT
environmental tactics in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: GCL Lo-Bentomat DN, 60 mil HDPE

DATE INSTALLED: 4/15/2008

WEATHER:

TEMP RANGE: 54 - 91

WIND / SPEED / DIR: SW 14 - 22 mph

RAIN: 0"

SIGNED: Gary Mark

(Signature and Date)

GARY MARKUM

(Printed Name)

ASARCO EL PASO

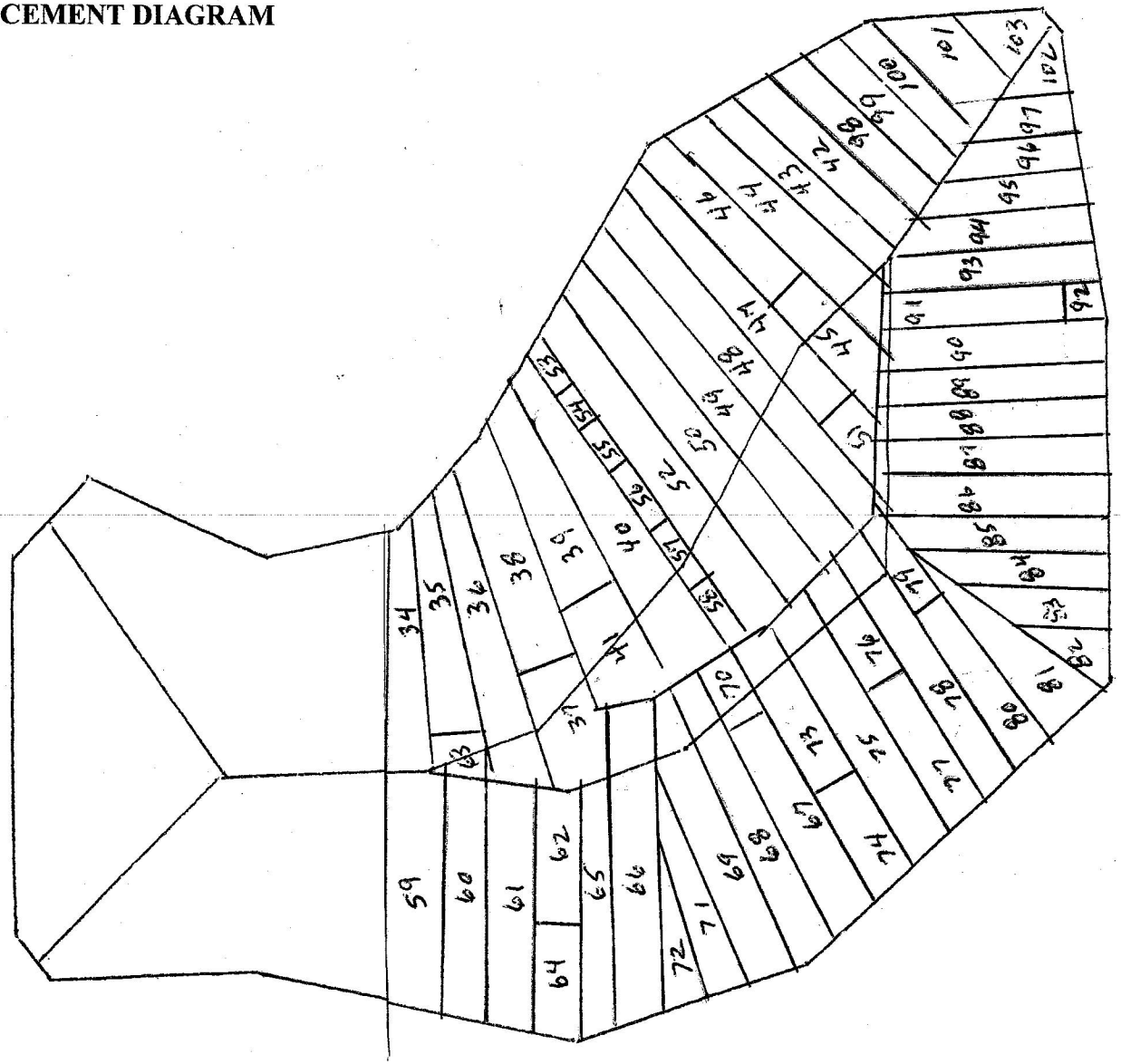
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 4/15/08

LINER MATERIAL: LO-BENTOMAT DN

NORTH



GCL INSPECTION SHEET

ENTACT
environmental tactics in waste management

INSPECTION DATE: 4/15/08

DESCRIPTION	TECHNICALLY ADEQUATE Y	N	COMMENTS
GCL Materials			
Correct type and orientation of GCL on floor and sidewalls	Y		
GCL Roll inspection	Y		
Log of Roll #'s	Y		
Storage Area	Y		
GCL Installation			
Dates GCL and cover was installed	Y		DATE OF INSPECTION 4.15.08
GCL Panel Layout	Y		
Sub grade rolled with smooth drum roller and maintained in suitable condition	Y		
Seam lapping in accordance with SLQCP; bentonite added as required by SLQCP	Y		
GCL panels placed by unrolling	Y		
Anchor trenches properly prepared and backfilled	Y		
GCL properly tied into adjacent lined areas	Y		
Conformance test performed	Y		
Damage / Folds		N	

ASARCO EL PASO

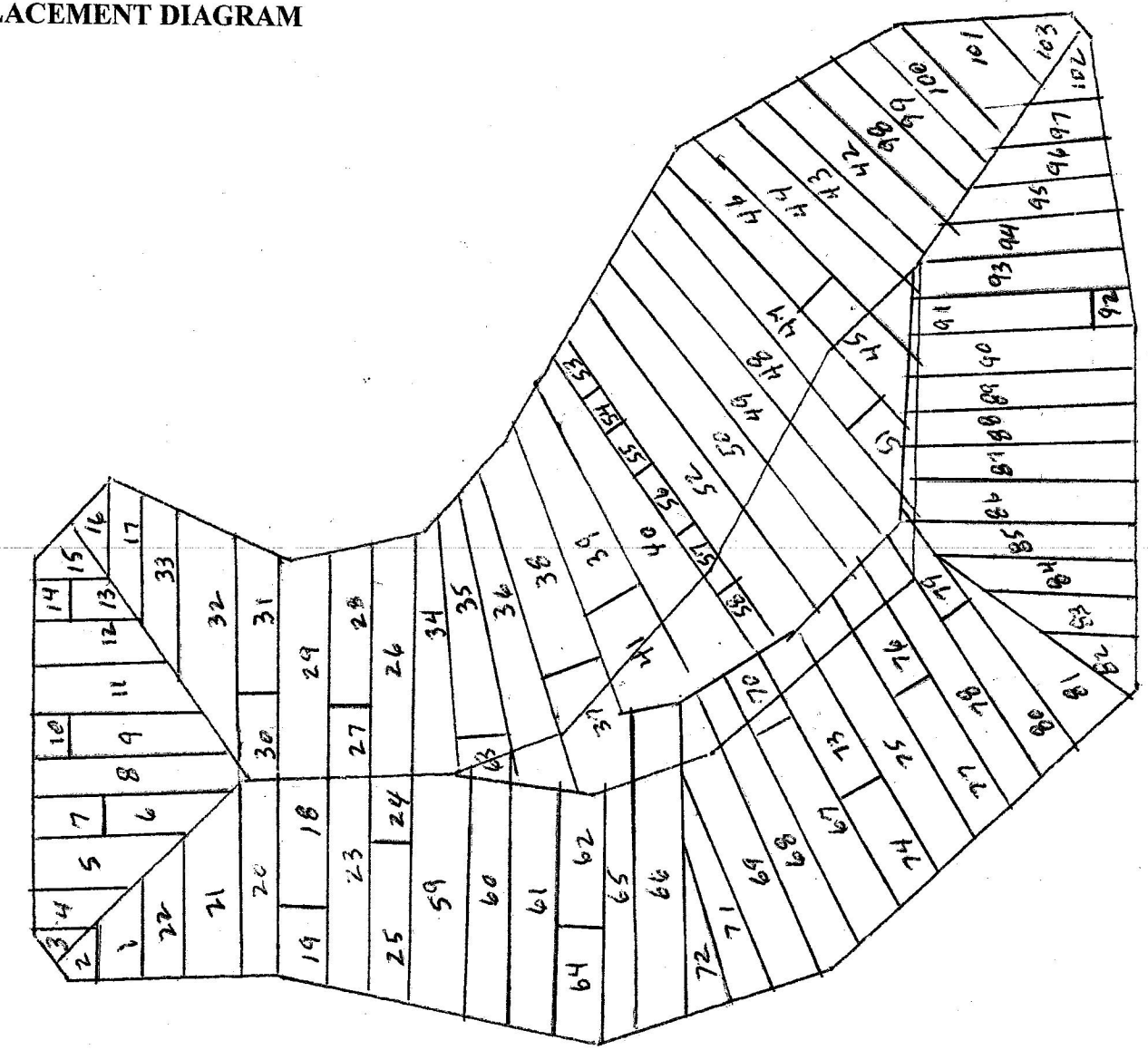
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 4/15/08

LINER MATERIAL: LO-BENTOMAT DN

NORTH



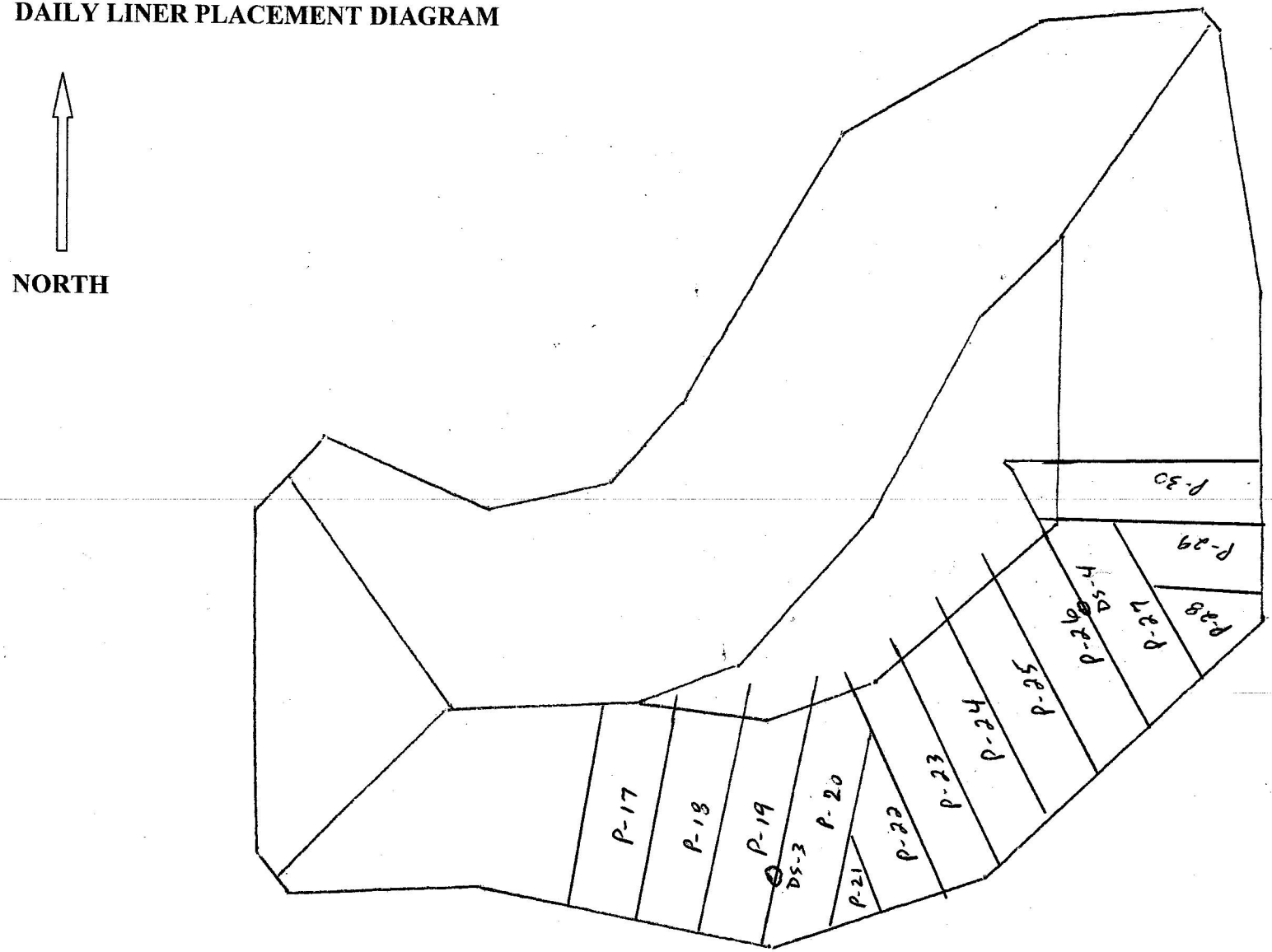
ASARCO EL PASO

POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 4/15/08

LINER MATERIAL: 60 mil HDPE



ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL PLACEMENT FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-02.1019 PAGE 2 of

Date	Panel #	Roll #	Panel Length	Panel Width	Comments/Panel Location	
4/15/08	P. 17	4056	73' - 77'	22.5'	DEPLOYED SOUTH TO NORTH	1,688 SF.
"	P. 18	4056	77' - 82'	22.5'	" " " "	1,789 SF.
"	P. 19	4056	87 - 90'	22.5'	" " " "	1,991 SF.
"	P. 20	4056	90' - 72'	22.5'	" " " "	1,823 SF.
"	P. 21	4053	36'	22.5'	" " " "	405 SF
"	P. 22	4053	36' - 66'	22.5'	" " " "	1,148 SF.
"	P. 23	4053	85' - 85'	22.5'	" " " "	1,913 SF.
"	P. 24	4053	85' - 84'	22.5'	" " " "	1,901 SF.
"	P. 25	4053	91' - 91'	22.5'	" " " "	2,048 SF
"	P. 26	4053	91' - 93'	22.5'	" " " "	2,070 SF.
"	P. 27	4054	93' - 56'	22.5'	" " " "	1,676 SF.
"	P. 28	4054	26' - 28'	20.5'	" " " "	260 SF.
"	P. 29	4054	28' - 45'	22.5'	DEPLOYED EAST TO WEST.	821 SF.
"	P. 30	4054	74' - 85'	22.5'	" " " "	1,789 SF
						21,322 SF.

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE 1 of

Date	Seam #	Tester ID	Air Testing Pressure Start	Air Testing Pressure End	Air Testing Time Start	Air Testing Time End	Complete Y/N	V Box Complete Y/N	Location/Comments
4/15/08	5/6	R.C	30	30	8:02	8:07	Y		E. TO 12'
"	5/6	"	30	30	8:10	8:15	Y		12' TO W.EOS
"	4/5	"	30	29	8:04	8:09	Y		N. TO S.EOS.
"	6/7	"	30	29	8:03	8:08	Y		E. TO W.EOS.
"	4/7	" 30	30	30	8:22	8:27	Y		E. TO W.EOS
"	7/8	"	30	30	8:19	8:24	Y		E. TO W.EOS
"	3/4	"	30	30	8:21	8:26	Y		N. TO S.EOS
"	8/3	"	30	30	8:20	8:25	Y		W. TO E.EOS
"	2/3	"	30	30	8:33	8:38	Y		N. TO S.EOS
"	8/9	"	30	30	8:35	8:40	Y		E. TO W.EOS
"	9/14	"	30	30	8:43	8:48	Y		S. TO N.EOS
"	9/10	"	30	29	8:42	8:47	Y		E. TO W.EOS
"	13/14	"	30	30	8:46	8:51	Y		S. TO N.EOS
"	10/13	"	30	30	8:50	8:55	Y		S. TO N.EOS
"	10/11	"	30	30	8:55	9:00	Y		E. TO W.EOS
"	11/13	"	30	30	8:57	9:02	Y		S. TO N.EOS.
"	11/12	"	30	30	9:05	9:10	Y		E TO W.EOS
"	12/13	"	30	29	9:02	9:07	Y		S. TO N.EOS
"	14/15	"	30	30	8:30	8:35	Y		S. TO N.EOS
"	15/16	"	30	29	9:10	9:15	Y		S. TO N.EOS

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE 2 OF

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time Start	Weld Time Stop	Comments
4/15/08	17/1	836	W	73'	P.T	3:00		From NORTH TO SOUTH
"	18/17	833	W	79'	A.P	3:13		" " " "
"	19/18	836	W	82'	P.T	3:30		" " " "
"	20/19	833	W	92'	A.P	3:35		" " " "
"	22/20	833	W	35'	A.P	5:15		" " " "
"	21/20	833	W	37'	A.P	5:20		" " " "
"	22/21	833	W	36	A.P	4:15		" " " "
"	23/20	836	W	17'	P.T	4:53		" " " "
"	23/22	836	W	67'	P.T	4:50		" " " "
	24/23	836	W	83'	P.T	5:15		" " " "
	25/24	836	W	83'	P.T	5:40		" " " "
	26/25	833	W	90'	A.P	5:45		" " " "
	30/26	836	W	20'	P.T	6:30		" " " "
	27/26	836	W	74'	P.T	5:55		" " " "
	29/27	833	W	30'	A.P	6:05		" " " "
	28/27	836	W	24'	P.T	6:15		" " " "
	29/28	836	W	27'	P.T	6:20		From WEST TO E.EOS
	30/27	833	W	29'	P.T	6:31		From WEST TO E.EOS.
	30/29	836	W	45'	A.P	6:30		" " " "

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE 1 OF

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time Start	Weld Time Stop	Comments
4/14/08	1/2	# 833	W	69'	A.A	4:45		From NORTH TO SOUTH
"	2/3	# 833	W	67'	A.A	4:59		" " " "
"	3/4	# 833	W	48'	A A	5:02		" " " "
"	4/5	# 833	W	23'	A.A	5:16		" " " "
"	7/6	# 836	W	27'	A.P	7:03		From WEST TO EAST.
"	7/8	# 833	W	49'	A.A	5:23		" EAST TO WEST
"	8/9	# 833	W	67'	A A	5:47		" EAST TO WEST
"	9/10	# 833	W	50'	A.A	7:10		" " " "
"	10/11	# 833	W	33'	A A	7:15		" " " "
"	11/12	# 836	W	30'	A.P	7:30		" " " "
"	13/12	# 836	W	17'	A.P	7:28		From NORTH TO SOUTH
"	13/11	# 836	W	23'	A.P	7:26		" " " "
"	14/13	# 836	W	55'	A.P	7:10		" " " "
"	15/14	# 833	W	70'	A.A	6:51		" " " "
"	16/15	# 833	W	72'	A.A	6:37		" " " "
4/15/08	3/8	# 836	W	25'	P.T	7:20		From EAST TO W.
"	4/7	# 836	W	29'	P.T	7:24		" " " "
"	4/6	# 836	W	7'	P.T	7:30		" " " "
"	5/6	# 836	W	23	P.T	7:32		" " " "
"	9/14	# 836	W	29'	P.T	8:00		" SOUTH TO NORTH
"	10/13	# 836	W	29'	P.T	8:06		" " " "

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

TRIAL WELD INFORMATION

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE 1 of 1

Date &Time	Ambient Temp	QC Initial	Machine #	Seamer Initials	Extrusion Welds: Barrel Set	Extrusion Welds: Preheat Set	Fusion Welds: Wedge Set	Fusion Welds: Speed Setting		Peel Values lbs/inch (Specified Value ____)				Shear Values lbs/inch (Specified Value ____)					Comments
-14-08	75	JNR	836	AP			850	5.5	inner	131	111	89	80						
51									outer	129	125	114	115	146	131				S/S
14/08	80°	"	833	A.A			860	5.5	inner	139	112	91	85						
00									outer	129	124	119	115	142	133				S/S
15/08		"							inner										
7:00									outer										
	80°	"	836	P.T			860	4.0	inner	115	135	126							
									outer	110	125	120		160	165				T/T
2:50	90°	"	836	A.T			860°	3.0	inner	120	105	106							
									outer	114	135	119		170	168				S/S
2:40	"	"	833	AP			850	5.0	inner	150	144	121							
									outer	130	126	119		160	166				S/S
									inner										
									outer										
16/08	75°	"	836	P.T			860	5.0	inner	125	121	125							
2:20									outer	135	137	130		165	168	154			S/S
2:25	"	"	833	A.P			860	5.0	inner	131	154	160							
									outer	131	159	164		170	160	169			S/T
30	90°	"	833	A.P			860°	5.0	inner	135	140	125							
									outer	141	130	116		163	170	169			S/S
30	"	"	833	A.P			860	5.5	inner	141	126	128							
									outer	130	129	130		170	165	162			S/T
30	"	"	836	P.T			860°	4.0	inner	124	115	122							
									outer	110	117	119		155	160	145			T/T
00	"	"	510	JT	550	550	~~5~~	~~0~~	inner	122	127	119							
									outer	~	~	~		157	161	159			T/T
									inner										
									outer										
108	65°	JNR	510	JT	550°	550°	~	~	inner	120	115	130							
20									outer					157	166	168			T/T
30	"	"	G#1	AP	550°	550°	~	~	inner	133	145	135							
									outer					199	190	175			T/T
									inner										
									outer										

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

DESTRUCTIVE TEST LOG

PROJECT NAME: ASALCO EL PASO PROJECT NO. 08-02-1019 PAGE (1) of _____

Date	Sample ID	Seam #	Machine #	Seamer Initials		Peel Values lbs/inch Specified Value _____					Shear Values lbs/inch Specified Value 120					Pass/Fail	Lab Pass/Fail	Comments
-14-08	DS-1	P-3 P-2	833	A.A	inner	132	130	129	128		183	175	170			P		
					outer	133	126	130	124									
.14-08	DS-2	P-14 P-13	833	A.P	inner	133	134	152	156		176	170	186			P		
					outer	123	117	130	131									
-15-08	DS-3	P-19 P-20	833	A.P	inner	124	122	124	129		171	167	166			P		
					outer	119	120	120	125									
.15-08	DS-4	P-26 P-27	836	P.T	inner	124	119	117	121		171	168	167			P		
					outer	122	121	119	120									
-16-08	DS-5	P-32 P-33	836	P.T	inner	145	146	133	134		180	176	175			P		
					outer	135	140	121	134									
-16-08	DS-6	P-43 P-44	836	P.T	inner	121	135	129	140		170	169	171			P		
					outer	130	137	135	139									
-16-08	DS-7	P-50 P-16	833	A.P	inner	128	127	120	121		166	169	169			P		
					outer	127	130	127	130									
-16-08	DS-8	P-53 P-54	836	PT	inner	126	128	135	126		177	175	169			P		
					outer	130	129	135	130									
-16-08	DSE-9		510	J.T	inner	120	130	141	139		157	166	159			P		
					outer													
-16-08	DSE-10			AT	inner	127	142	131	143		160	158	161			P		
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													

GCL AND 60 MIL HDPE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT
environmental tactics in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: 60 mil HDPE

DATE INSTALLED: 4/16/2008

WEATHER:

TEMP RANGE: 64 - 86

WIND / SPEED / DIR: WSW 19-31 mph

RAIN: 0"

SIGNED: Gary Markum

(Signature and Date)

GARY MARKUM

(Printed Name)

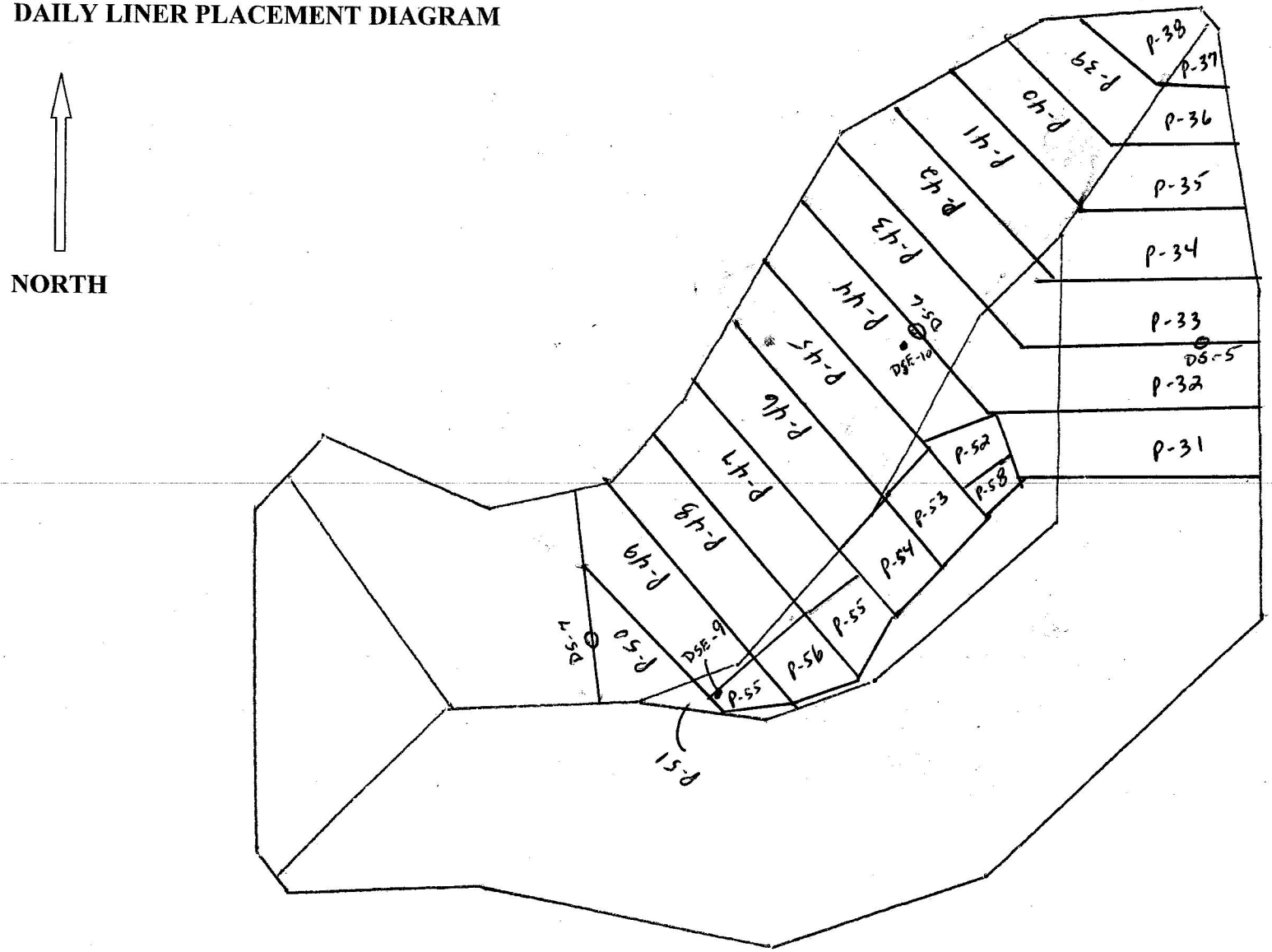
ASARCO EL PASO

DATE: 4/16/08

POND 6 REPOSITORY

LINER MATERIAL: 60 mil HDPE

DAILY LINER PLACEMENT DIAGRAM



ASARCO EL PASO

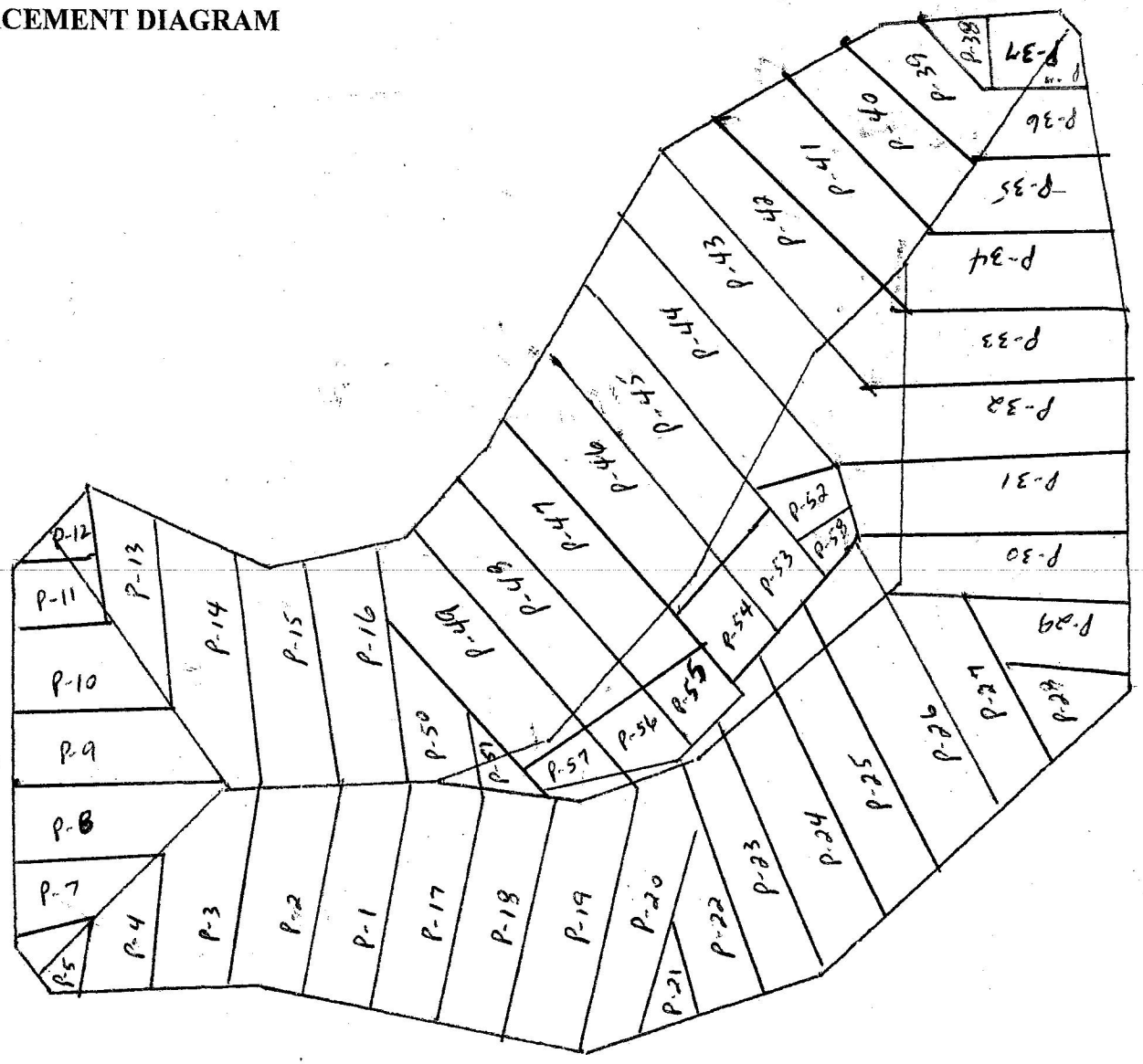
DATE: 4/16/03

POND 6 REPOSITORY

LINER MATERIAL: 60 mil HDPE

DAILY LINER PLACEMENT DIAGRAM

NORTH



ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL PLACEMENT FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-07.1019 PAGE (3) of

Date	Panel #	Roll #	Panel Length	Panel Width	Comments/Panel Location					
4/16/08	P-31	4054	85' - 89'	22.5'	DEPLOTED	EAST	TO	WEST.	1.958	SF.
"	P-32	4054	89' - 76'	22.5'	"	"	"	"	1.856	SF.
"	P-33	4054	76' - 73'	22.5'	"	"	"	"	1.676	SF.
"	P-34	4056	73' - 58'	22.5'	"	"	"	"	1.474	SF.
"	P-35	4056	58 39'	22.5'	"	"	"	"	1.091	SF
"	P-36	4367	37' - 22'	22.5'	"	"	"	"	664	SF.
"	P-37	4367	22' - 5'	20.5'	DEPLOTED	NORTH	TO	SOUTH	277	SF.
"	P-38	4367	12.5'	14'	"	"	"	"	175	SF.
"	P-39	4367	27' - 48'	22.5'	"	"	"	"	844	SF.
"	P-40	4367	48' - 62'	22.5'	"	"	"	"	1.238	SF.
"	P-41	4367	62' - 71'	22.5'	"	"	"	"	1.496	SF.
"	P-42	4367	71' - 87'	22.5'	"	"	"	"	1.778	SF.
"	P-43	4367	87' - 87'	22.5'	"	"	"	"	1.958	SF.
"	P-44	4052	92' - 79'	22.5'	"	"	"	"	1.924	SF.
"	P-45	4052	82' - 80'	22.5'	"	"	"	"	1.823	SF.
"	P-46	4052	82' - 80'	22.5'	"	"	"	"	1.823	SF.
"	P-47	4052	92' - 87'	22.5'	"	"	"	"	2.014	SF.
"	P-48	4052	87' - 80	22.5'	"	"	"	"	1.879	SF.
"	P-49	4056	80' - 62'	22.5'	"	"	"	"	1.598	SF.
"	P-50	4052	27' - 57'	22.5'	"	"	"	"	945	SF.

28,491 SF

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL PLACEMENT FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE 4 of 4

Date	Panel #	Roll #	Panel Length	Panel Width	Comments/Panel Location					
4/16/08	P. 51	4054	26'	21'	DEPLOYED	NORTH	TO	SOUTH	273	SF.
"	P. 52	4054	6' - 23'	22.5 - 14'	"	"	"	"	265	SF.
"	P. 53	4056	31' - 32'	22.5	"	"	"	"	709	SF.
"	P. 54	4056	30' - 30	22.5	"	"	"	"	675	SF.
"	P. 55	4053	23' - 23'	22.5	"	"	"	"	529	SF.
"	P. 56	4053	24 - 21'	22.5	"	"	"	"	506	SF.
"	P. 57	4053	21'	22.5	"	"	"	"	236	SF.
"	P. 58	4056	14' - 10'	- 18	"	"	"	"	120	SF.
								3,313	SF.	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE (2) of

Date	Seam #	Tester ID	Air Testing Pressure Start	Air Testing Pressure End	Air Testing Time Start	Air Testing Time End	Complete Y/N	V Box Complete Y/N	Location/Comments
4/15/08	15/12	R.C	30	30	9:14	9:19	Y		N. TO S.E.S.
4/16/08	17/1	"	30	29	7:15	7:20	Y		N. TO S.E.S
"	18/17	"	30	30	7:16	7:21	Y		N. TO S.E.S
"	19/18	"	30	30	7:18	7:23	Y		N. TO S.E.S
"	20/19	"	30	30	7:19	7:24	Y		N. TO S.E.S
"	23/20	"	30	30	7:36	7:41	Y		N. TO S.E.S
"	23/22	"	30	29	7:41	7:46	Y		N. TO S.E.S
"	22/20	"	30	30	7:40	7:45	Y		N. TO S.E.S
"	21/20	"	30	30	7:44	7:49	Y		N. TO S.E.S
"	22/21	"	30	30	7:37	7:42	Y		N. TO S.E.S
"	24/23	"	30	30	7:47	7:52	Y		N. TO S.E.S
"	25/24	"	30	30	7:45	7:50	Y		N. TO S.E.S
"	26/25	"	30	29	8:00	8:05	Y		N. TO S.E.S
"	30/26	"	30	30	8:02	8:07	Y		N. TO S.E.S
"	27/26	"	30	30	8:14	8:19	Y		N. TO S.E.S
"	30/27	"	30	30	8:03	8:08	Y		W. TO E.E.S
"	30/29	"	30	30	8:06	8:11	Y		W. TO E.E.S
"	27/29	"	30	30	8:21	8:26	Y		W TO S.E.S
"	28/27	"	30	30	8:25	8:30	Y		N. TO S.E.S
"	29/28	"	30	29	8:27	8:32	Y		W. TO E.E.S

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-02-019 PAGE 3 of

Date	Seam #	Tester ID	Air Testing Pressure Start	Air Testing Pressure End	Air Testing Time Start	Air Testing Time End	Complete Y/N	V Box Complete Y/N	Location/Comments
4/16/08	31/30	R.C	30	30	9:10	9:15	Y		W. TO E. EDS
"	32/31	"	30	30	11:05	11:10	Y		W. TO E. EDS
"	33/32	"	30	30	1:10	1:15	Y		W. TO E. EDS
"	34/33	"	30	30	1:23	1:28	Y		W. TO E. EDS
"	35/34	"	30	30	10:25	10:30	Y		W. TO E. EDS
"	36/35	"	30	29	10:10	10:15	Y		W. TO E. EDS
"	37/36	"	30	30	10:00	10:05	Y		W. TO E. EDS
"	38/37	"	30	30	9:50	9:55	Y		S. TO N. EDS
"	39/38	"	30	29	9:58	10:03	Y		S. TO N. EDS
"	36/39	"	30	30	10:01	10:06	Y		N. TO S. EDS
"	40/39	"	30	28	10:11	10:16	Y		S. TO N. EDS
"	35/40	"	30	29	10:20	10:25	Y		N. TO S. EDS
"	41/40	"	30	29	10:21	10:26	Y		S. TO N. EDS
"	35/41	"	30	30	10:23	10:28	Y		N. TO S. EDS
"	34/41	"	30	29	10:28	10:33	Y		N. TO S. EDS
"	42/41	"	30	30	10:40	10:45	Y		S. TO N. EDS
"	34/42	"	30	30	1:50	1:55	Y		N. TO S. EDS
"	23/42	"	30	30	1:51	1:56	Y		N. TO S. EDS
"	43/42	"	30	30	11:00	11:05	Y		S. TO N. EDS

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-02.109 PAGE 4 of

Date	Seam #	Tester ID	Air Testing Pressure Start	Air Testing Pressure End	Air Testing Time Start	Air Testing Time End	Complete Y/N	V Box Complete Y/N	Location/Comments
9/16/08	32/43	R.C	30	30	1:56	2:01	Y		N. TO 10'
"	32/43	"	30	29	2:04	2:09	Y		10' TO S.E.S
"	44/43	"	30	30	11:03	11:08	Y		S. TO N.E.S
"	52/44	"	30	28	2:20	2:25	Y		E. TO W.E.S
"	45/44	"	30	29	11:12	11:17	Y		S. TO N.E.S
"	53/45	"	30	30	2:30	2:35	Y		E. TO W.E.S
"	46/45	"	30	30	11:15	11:20	Y		S. TO N.E.S
"	54/46	"	30	30	4:45	4:50	Y		E. TO W.E.
"	47/46	"	30	30	11:30	11:35	Y		S. TO N.E.
"	48/47	"	30	30	11:34	11:39	Y		S. TO N.E.S
"	49/48	"	30	30	1:30	1:35	Y		S. TO N.E.
"	52/53	"	30	30	1:20	1:25	Y		N. TO S.E.
"	53/54	"	30	30	1:16	1:21	Y		N. TO S.E.S
"	52/31	"	30	30	2:40	2:45	Y		N. TO S.E.S
"	30/58	"	30	30	3:00	3:05	Y		N. TO S.E.S
"	26/58	"	30	30	2:51	2:59	Y		E. TO W.E.S
"	58/52	"	30	30	2:42	2:47	Y		E. TO W.E.
"	58/53	"	30	29	3:01	3:06	Y		N. TO S.E.S
"	26/53	"	30	30	3:08	3:08	Y		E. TO W.E.
"	25/54	"	30	30	3:24	3:29	Y		E TO W.E

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: ASALCO EL PASO PROJECT NO. 08-07-1019 PAGE 5 of 5

			Air Testing						
			Pressure		Time				
Date	Seam #	Tester ID	Start	End	Start	End	Complete Y/N	V Box Complete Y/N	Location/Comments
4/16/08	25/45	R.C	30	29	3:22	3:27	Y		E. TO W. EOS
"	24/55	"	30	30	4:25	4:30	Y		E. TO W. EOS
"	23/55	"	30	30	4:17	4:22	Y		E. TO W. EOS
"	23/56	"	30	29	4:10	4:15	Y		E. TO W. EOS
"	20/56	"	30	30	4:08	4:13	Y		E. TO W. EOS
"	19/57	"	30	30	4:05	4:10	Y		E. TO W. EOS
"	18/51	"	30	29	3:37	3:42	Y		E. TO W. EOS
"	17/50	"	30	30	3:34	3:39	Y		E. TO W. EOS
"	1/16	"	30	30	3:30	3:35	Y		E. TO W. EOS
"	2/15	"	30	30	3:27	3:32	Y		E. TO W. EOS
"	50/51	"	30	30	3:45	3:50	Y		S. TO 15
"	50/51	"	30	29	3:46	3:51	Y		15 TO N. EOS.
"	51/49	"	30	30	3:47	3:52	Y		S. TO N. EOS
"	49/50	"	30	30	1:40	1:45	Y		N. TO S. EOS
"	50/16	"	30	30	1:42	1:47	Y		N. TO S. EOS
"	16/49	"	30	30	3:50	3:55	Y		S. TO N. EOS

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE (3) OF

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time Start	Weld Time Stop	Comments
4/16/08	31/30	# 836	W	84'	P.T	7:40		From WEST TO EAST
"	32/31	# 833	W	87'	A.P	7:46		" " " "
"	33/32	# 836	W	75'	P.T	8:00		" " " "
"	34/33	# 833	W	72'	A.P	8:08		" " "
"	35/34	# 836	W	50'	P.T	8:20		" " "
"	36/35	# 833	W	36'	A.P	8:50		From EAST TO W.EDS
"	36/37	# 836	W	21'	P.T	9:05		" " "
"	37/38	# 833	W	21'	A.P	9:08		From SOUTH TO N.EDS
"	38/39	# 836	W	27'	P.T	9:15		" " " "
"	40/39	# 836	W	47'	P.T	8:57		" " "
"	41/40	# 836	W	62'	P.T	9:00		" " "
"	42/41	# 836	W	70'	P.T	9:20		" " "
"	43/42	# 836	W	91'	P.T	9:40		" " " "
"	44/43	# 836	W	86'	P.T	9:55		" " "
"	44/45	# 836	W	83'	P.T	10:10		" NORTH TO S.EDS
"	41/34	# 833	W	19'	A.P	9:32		" SOUTH TO N.
"	41/35	# 833	W	5'	A.P	9:34		" " " N
"	40/35	# 833	W	24'	A.P	9:36		" " "
"	39/36	# 833	W	26'	A.P	9:41		" " " "
"								
"								

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE 4 OF

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time Start	Weld Time Stop	Comments
4/16/08	45/46	836	W	82'	P.T	10:55		FROM NORTH TO SOUTH
	46/47	833	W	80'	AP	10:58		" " " "
	47/48	836	W	82'	P.T	11:15		" " " "
	48/49	836	W	80'	P.T	11:50		" " " "
	49/16	833	W	23'	AP	3:23		" " " "
	50/16	833	W	57'	AP	11:31		" " " "
	49/50	833	W	38'	AP	11:40		" " " "
	49/51	836	W	25'	P.T	3:00		" " " "
	50/51	836	W	27'	P.T	3:10		" " " "
	52/44	836	W	23'	P.T	2:00		FROM EAST TO W.E.S
	53/45	836	W	23'	P.T	2:15		" " " "
	54/46	836	W	23'	P.T	2:20		" " " "
	55/47	836	W	23'	P.T	2:30		" " " "
	56/48	836	W	23'	P.T	2:36		" " " "
	57/49	836	W	23'	PT	2:40		" " " "
	58/52	833	W	14'	AP	1:45		" " " "
	52/53	833	W	21'	P.T	12:03		FROM NORTH TO SOUTH
	58/53	833	W	10'	P.T	1:47		" " " "
	53/54	836	W	29'	P.T	12:10		" " " "
	54/47	836	W	11'	PT	2:30		" " " "
	54/55	836	W	17'	P.T	2:33		" " "

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

TRIAL WELD INFORMATION

PROJECT NAME: ASARCO EL PASO POND 6 PROJECT NO. 08-02-1019 PAGE 1 of 1

Date &Time	Ambient Temp	QC Initial	Machine #	Seamer Initials	Extrusion Welds: Barrel Set	Extrusion Welds: Preheat Set	Fusion Welds: Wedge Set	Fusion Welds: Speed Setting		Peel Values lbs/inch (Specified Value ____)					Shear Values lbs/inch (Specified Value ____)					Comments
-14-08 :51	75°	JNR	836	AP			850	5.5	inner	131	111	89	80		146	131				S/S
									outer	129	125	114	115							
14/08 :00	80°	"	833	A.A			860	5.5	inner	139	112	91	85		142	133				S/S
									outer	129	124	119	115							
15/08 7:00		"							inner											
									outer											
	80°	"	836	P.T			860	4.0	inner	115	135	126			160	165				T/T
									outer	110	125	120								
2:50	90°	"	836	A.T			860°	3.0	inner	120	105	106			170	168				S/S
									outer	114	135	119								
2:40	"	"	833	AP			850	5.0	inner	150	144	121			160	166				S/S
									outer	130	126	119								
									inner											
									outer											
16/08 2:20	75°	"	836	P.T			860	5.0	inner	125	121	125			165	168	159			S/S
									outer	135	137	130								
:25	"	"	833	A.P			860	5.0	inner	131	154	160			170	160	169			S/T
									outer	131	159	164								
30	90°	"	833	A.P			860°	5.0	inner	135	140	125			163	170	169			S/S
									outer	141	130	116								
30	"	"	833	A.P			860	5.5	inner	141	126	128			170	165	162			S/T
									outer	130	129	130								
30	"	"	836	P.T			860°	4.0	inner	124	115	122			155	160	145			T/T
									outer	110	117	119								
06	"	"	510	JT	550	550	~~5~~	~~0~~	inner	122	127	119			157	161	159			T/T
									outer	~	~	~								
									inner											
									outer											
/08 20	65°	JNR	510	JT	550°	550°	~	~	inner	120	115	130			157	166	168			T/T
									outer											
30	"	"	G#1	AP	550°	550°	~	~	inner	133	145	135			199	190	175			T/T
									outer											
									inner											
									outer											

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

DESTRUCTIVE TEST LOG

PROJECT NAME: ASALCO EL PASO PROJECT NO. 08-02-1019 PAGE (1) of _____

Date	Sample ID	Seam #	Machine #	Seamer Initials		Peel Values lbs/inch Specified Value _____					Shear Values lbs/inch Specified Value 120					Pass/Fail	Lab Pass/Fail	Comments
-14-08	DS-1	P-3 P-2	833	A.A	inner	132	130	129	128		183	175	170			P		
					outer	133	126	130	124									
.14-08	DS-2	P.14 P.13	833	A.P	inner	133	134	152	156		176	170	186			P		
					outer	123	117	130	131									
-15-08	DS-3	P-19 P.20	833	A.P	inner	124	122	124	129		171	167	166			P		
					outer	119	120	120	125									
1.15-08	DS-4	P-26 P-27	836	P.T	inner	124	119	117	121		171	168	167			P		
					outer	122	121	119	120									
-16-08	DS-5	P-32 P.33	836	P.T	inner	145	146	133	134		180	176	175			P		
					outer	135	140	121	134									
1-16-08	DS-6	P.43 P.44	836	P.T	inner	121	135	129	140		170	169	171			P		
					outer	130	137	135	139									
1-16-08	DS-7	P.50 P.16	833	A.P	inner	128	127	120	121		166	169	169			P		
					outer	127	130	127	130									
1-16-08	DS-8	P.53 P.54	836	PT	inner	126	128	135	126		177	175	169			P		
					outer	130	129	135	130									
1-16-08	DSE-9		510	J.T	inner	120	130	141	139		157	166	159			P		
					outer													
-16-08	DSE-10			AP	inner	127	142	131	143		160	158	161			P		
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													
					inner													
					outer													

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE 5 OF 5

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time Start	Weld Time Stop	Comments
4/16/08	55 / 56	836	W	24'	P.T	2:40		From NORTH To SOUTH.
"	56 / 57	836	W	20'	P.T	2:45		" " " "
"	34 / 42	836	W	7'	P.T	1:45		" " " "
"	33 / 42	836	W	23'	P.T	1:46		" " " "
"	32 / 43	836	W	24'	P.T	1:50		" " " "
"	31 / 52	833	W	20'	AP	2:05		" " " "
"	31 / 58	833	W	3'	AP	2:00		" " "
"	26 / 58	833	W	9'	AP	2:10		From EAST To W.Eos
"	26 / 53	833	W	14'	AP	2:15		" " " "
"	25 / 53	833	W	10'	AP	2:18		" " " "
"	25 / 54	833	W	13'	AP	2:20		" " " "
"	24 / 54	833	W	10'	AP	2:25		" " " "
"	24 / 55	833	W	13'	AP	2:30		" " " "
"	23 / 55	833	W	11'	AP	2:35		" " " "
"	23 / 56	833	W	13'	AP	3:00		" " " "
"	20 / 56	833	W	12'	AP	3:10		" " " "
"	19 / 57	833	W	22'	AP	3:15		" " " "
"	15 / 2	836	W	23'	P.T	3:10		From WEST To EAST.
"	16 / 1	836	W	23'	P.T	3:15		" " " "
"	50 / 17	836	W	23'	P.T	3:20		" " " "
"	51 / 18	836	W	23'	P.T	3:25		" " " "

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

REPAIR REPORT

Project Name: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE 1 of

Repair #	Field Seam	Panel #	Repair Date	Repair Crew	Machine #	Non-DestructiveTest Date	Test Crew	Non-Destructive Test P/F	Comments
R-1	T	18/51/49/52/19	4/16/08	JT	# 510	4/17/08	A.A	P	@ INTERSECTION 6'x10'
R-2	T	6/5	"	JT	# 510	"	"	P	13' OF S. 2'x2'
R-3	T	6/4/5	"	JT	# 510	"	"	P	@ INTERSECTION 2'x2'
R-4	T	7/4/6	"	JT	# 510	"	"	P	@ INTERSECTION 2'x2'
R-5	T	8/3/7	"	JT	# 510	"	"	P	@ INTERSECTION 2'x6'
R-6	T	8/3/14/15/12	"	JT	# 510	"	"	P	@ INTERSECTION 2'x5'
R-7	T	8/14/9	"	JT	# 510	"	"	P	@ INTERSECTION 2'x4'
R-8	T	9/14/10/13	"	JT	# 510	"	"	P	@ INTERSECTION 2'x5'
R-9	T	10/13/11	"	JT	# 510	"	"	P	@ INTERSECTION 2'x4'
R-10	T	11/13/12	"	JT	# 510	"	"	P	@ INTERSECTION 2'x3'
R-11	DS-2	14/13	"	JT	# 510	"	"	P	32' OF N. 2'x4'
R-12	DS-1	3/2	"	JT	# 510	"	"	P	27' OF S. 2'x4'
R-13	T	15/2/16/1	"	JT	# 510	"	"	P	@ INTERSECTION 2'x2'
R-14	T	16/1/50/17	"	JT	# 510	"	"	P	@ INTERSECTION 2'x3'
R-15	BO	16/50	"	JT	# 510	"	"	P	26' OF S. 2'x3'
R-16	T	49/16	4/17/08	JT	# 510	"	"	P	22' OF N. 2'x2'
R-17	T	49/50	4/16/08	JT	# 510	"	"	P	38' OF N. 2'x2'
R-18	BO	50/51	"	JT	# 510	"	"	P	20' OF S. 2'x2'
R-19	BO	50/51	"	JT	# 510	"	"	P	12' OF S. 2'x2'
R-20	T	18/51/17/50	"	JT	# 510	"	"	P	@ INTERSECTION 2'x2'

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

REPAIR REPORT

Project Name: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE (2) of

Repair #	Field Seam	Panel #	Repair Date	Repair Crew	Machine #	Non-DestructiveTest Date	Test Crew	Non-Destructive Test P/F	Comments
R-21	BO	51/18	4/16/08	JT	# 510	4/17/08	A.A	P	12' OF W. 2x2'
R-22	DSE-9	R-1 / P-57	4/17/08	JT	# 510	"	"		3' OF S. 2x4'
R-23	H	P-17	4/16/08	JT	# 510	"	"		5' OF N. 10' SEAM 17/1 OF W. 2x2'
R-24	T	49/54/48/56	4/17/08	JT	# 510	"	"		@ INTERSECTION 2x2'
R-25	T	19/57/20/56	"	JT	# 510	"	"		@ INTERSECTION 2x2
R-26	T	56/20/23	"	JT	# 510	"	"		@ INTERSECTION 2x6'
R-27	T	56/23/55	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-28	H	P-23	"	JT	# 510	"	"		5' OF N. 10' SEAM 23/20 OF W. 2x2'
R-29	T	55/24/23	"	JT	# 510	"	"		@ INTERSECTION 2x3'
R-30	H	P-23	"	JT	# 510	"	"		7' OF N. 2' SEAM 24/23 OF E. 2x2'
R-31	T	55/24/R-41	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-32	T	46/R-41/55	"	JT	# 510	"	"		@ INTERSECTION 2x2
R-33	T	48/56/47/55	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-34	T	55/47/54	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-35	T	46/54/47	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-36	T	54/R-41/25	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-37	T	R-41/24/25	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-38	T	54/25/53	"	JT	# 510	"	"		@ INTERSECTION 2x2'
R-39	T	53/26/25	"	JT	# 510	"	"		@ INTERSECTION 2x8'
R-40	DS-8	54/53	"	JT	# 510	"	"		12' OF S. 2x6'

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

REPAIR REPORT

Project Name: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE 3 of

Repair #	Field Seam	Panel #	Repair Date	Repair Crew	Machine #	Non-DestructiveTest Date	Test Crew	Non-Destructive Test P/F	Comments
R-41	EXT1	55/54/24/25	4/16/08	AP	#833	4/16/08	R.C	P	@ INTERSECTION 10x10'
R.42	T	23/20/22	4/17/08	JT	#510	4/17/08	A.A	P	18' OF S. 2x6'
R.43	T	21/22/20	"	JT	#510	"	"	P	35' OF S. 2x2'
R.44	DS-3	19/20	"	JT	#510	"	"	P	21' OF S. 2x4'
R.45	DS-4	26/27	"	JT	#510	"	"	P	37' OF S. 2x4
R.46	T	28/27/29	"	JT	#510	"	"	P	@ INTERSECTION 2x4
R.47	T	29/27/30	"	JT	#510	"	"	P	@ INTERSECTION 2x4
R.48	T	30/26/27	"	JT	#510	"	"	P	@ INTERSECTION 2x2
R.49	T	53/26/58	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R.50	T	58/26/30	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R.51	T	52/58/31/30	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R.52	T	52/58/53	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R.53	T	46/54/53	"	JT	#510	"	"	P	@ INTERSECTION 2x7
R.54	BO	45/53	"	JT	#510	"	"	P	10' OF W. 2x5'
R.55	T	45/53/44/52	"	JT	#510	"	"	P	@ INTERSECTION 4x10
R.56	T	44/52/43	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R.57	T	32/31/43/52	"	AP	#1	"	"	P	@ INTERSECTION 4x10
R.58	T	43/32	"	AP	#1	"	"	P	12' OF W. 2x4
R.59	T	42/33/43/32	"	AP	#1	"	"	P	@ INTERSECTION 2x4
R.60	T	42/33/34	"	AP	#1	"	"	P	@ INTERSECTION 2x7

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

REPAIR REPORT

Project Name: ASARCO EL PASO PROJECT NO. 08-02-1019 PAGE 4 of

Repair #	Field Seam	Panel #	Repair Date	Repair Crew	Machine #	Non-DestructiveTest Date	Test Crew	Non-Destructive Test P/F	Comments
R-61	DS-6	43/44	4/17/08	AP	#1	4/17/08	A.A	P	57' OF N. 2'x4'
R-62	DSE-10	R-61/44	"	AP	#1	"	AA	P	57' OF N. 2'x4'
R-63	T	42/34/41	"	AP	#1	"	A.A	P	@ INTERSECTION 2x2
R-64	Bo	42/41	"	AP	#1	"	"	P	4' OF S. 2x4
R-65	T	41/38/34	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R-66	T	40/35/41	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R-67	T	39/36/40/35	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R-68	T	38/37/39/36	"	AP	#1	"	"	P	@ INTERSECTION 2x2
R-69	B 10	32/33	"	AP	#1	"	"	P	@ ANCHOR TRENCH 2x2
R-70	DS-5	32/33	"	AP	#1	"	"	P	20' OF E 2x2

HDPE GCL PANEL LAYOUT INSPECTION FORM

MATERIAL TYPE: 60 mil HDPE

Date	Roll Number	Location	Panel Number
4/14/08	4408	See Attached Map	1, 2, 3, 4, 5, 7, 8, 9
4/14/08	4369	See Attached Map	6, 10, 11, 12, 13, 14, 15, 16
4/15/08	4056	See Attached Map	17, 18, 19, 20,
4/15/08	4053	See Attached Map	21, 22, 23, 24, 25, 26,
4/15/08	4054	See Attached Map	27, 28, 29, 30
4/16/08	4054	See Attached Map	31, 32, 33, 51, 52
4/16/08	4056	See Attached Map	34, 35, 49, 53 54, 58
4/16/08	4367	See Attached Map	36, 37, 38, 39, 40, 41, 42, 43
4/16/08	4052	See Attached Map	44, 45, 46, 47, 48, 50
4/16/08	4053	See Attached Map	55, 56, 57

ASARCO EL PASO

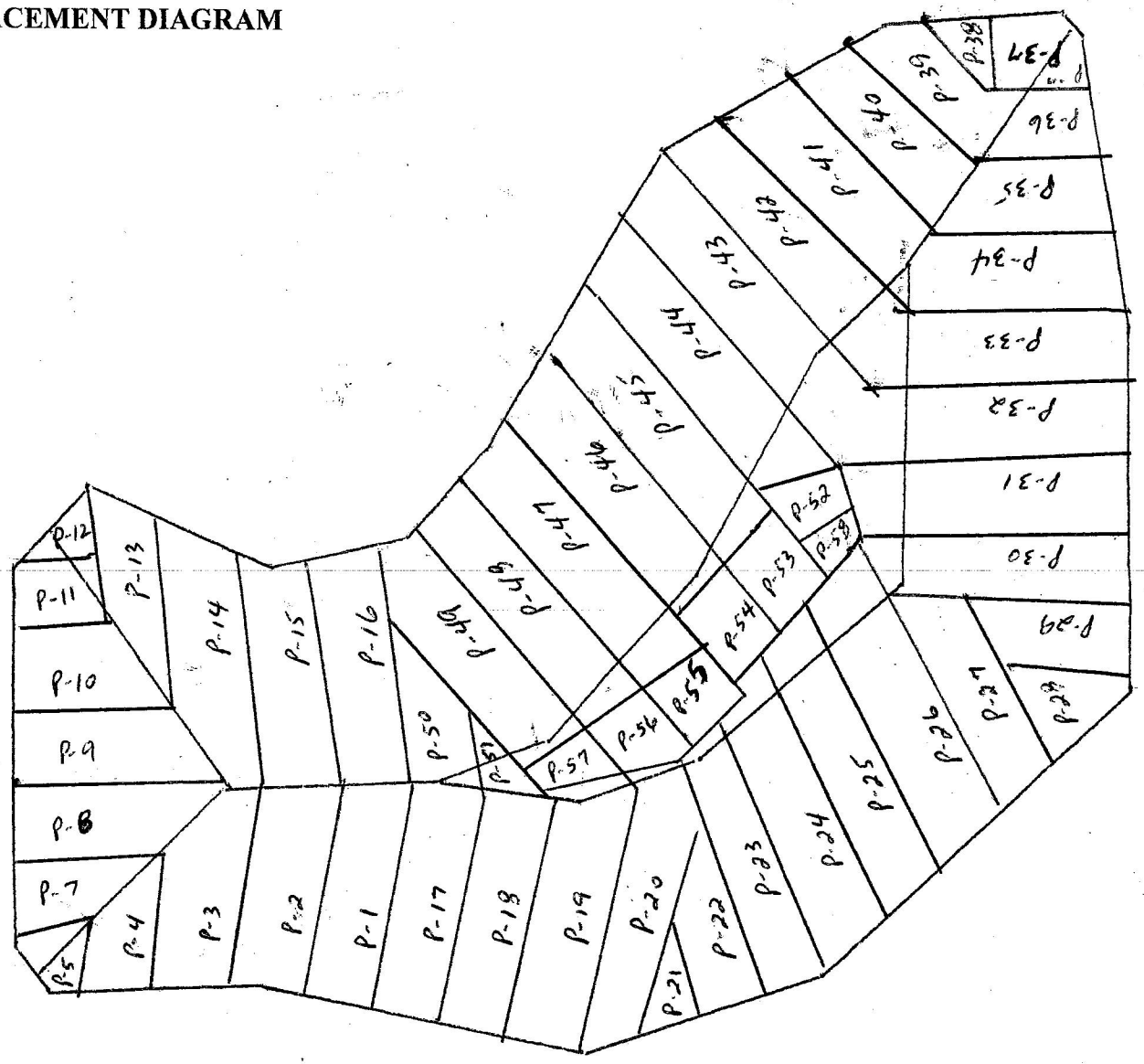
DATE: 4/16/03

POND 6 REPOSITORY

LINER MATERIAL: 60 mil HDPE

DAILY LINER PLACEMENT DIAGRAM

NORTH



HDPE GCL PANEL LAYOUT INSPECTION FORM

MATERIAL TYPE: Lo- Bentomat DN (GCL)

Date	Roll Number	Location	Panel Number
4/14/08	00001678	See Attached Map	1, 2, 3, 4, 5, 6
4/14/08	00001676	See Attached Map	7, 8, 9
4/14/08	00001648	See Attached Map	10, 11, 12, 13
4/14/08	00001690	See Attached Map	14, 15, 16, 17, 18
4/14/08	00001671	See Attached Map	19, 20, 21
4/14/08	00001659	See Attached Map	22, 23, 24
4/14/08	00001691	See Attached Map	25, 26, 27
4/14/08	00001664	See Attached Map	28, 29, 30
4/14/08	00001652	See Attached Map	31, 32, 33
4/15/08	00001670	See Attached Map	34, 35
4/15/08	00001663	See Attached Map	36, 37
4/15/08	00001675	See Attached Map	38, 39
4/15/08	00001667	See Attached Map	40, 41
4/15/08	00001651	See Attached Map	42, 43
4/15/08	00001661	See Attached Map	44, 45
4/15/08	00001680	See Attached Map	46, 47
4/15/08	00001650	See Attached Map	48
4/15/08	00001686	See Attached Map	49
4/15/08	00001665	See Attached Map	50, 51
4/15/08	00001649	See Attached Map	52, 53, 54, 55, 56, 57, 58
4/15/08	00001687	See Attached Map	59, 60
4/15/08	00001656	See Attached Map	61, 62, 63
4/15/08	00001679	See Attached Map	64, 65
4/15/08	00001688	See Attached Map	66, 67
4/15/08	00001660	See Attached Map	68, 69, 70
4/15/08	00001678	See Attached Map	71, 72, 73
4/15/08	00001657	See Attached Map	74, 75, 76
4/15/08	00001681	See Attached Map	77, 78, 79
4/15/08	00001673	See Attached Map	80, 81, 82, 83
4/15/08	00001692	See Attached Map	84, 85
4/15/08	00001666	See Attached Map	86, 87
4/15/08	00001683	See Attached Map	88, 89
4/15/08	00001655	See Attached Map	90, 91
4/15/08	00001674	See Attached Map	92, 93, 94
4/15/08	00001654	See Attached Map	95, 96, 97
4/15/08	00001672	See Attached Map	98, 99
4/15/08	00001658	See Attached Map	100, 101, 102, 103

ASARCO EL PASO

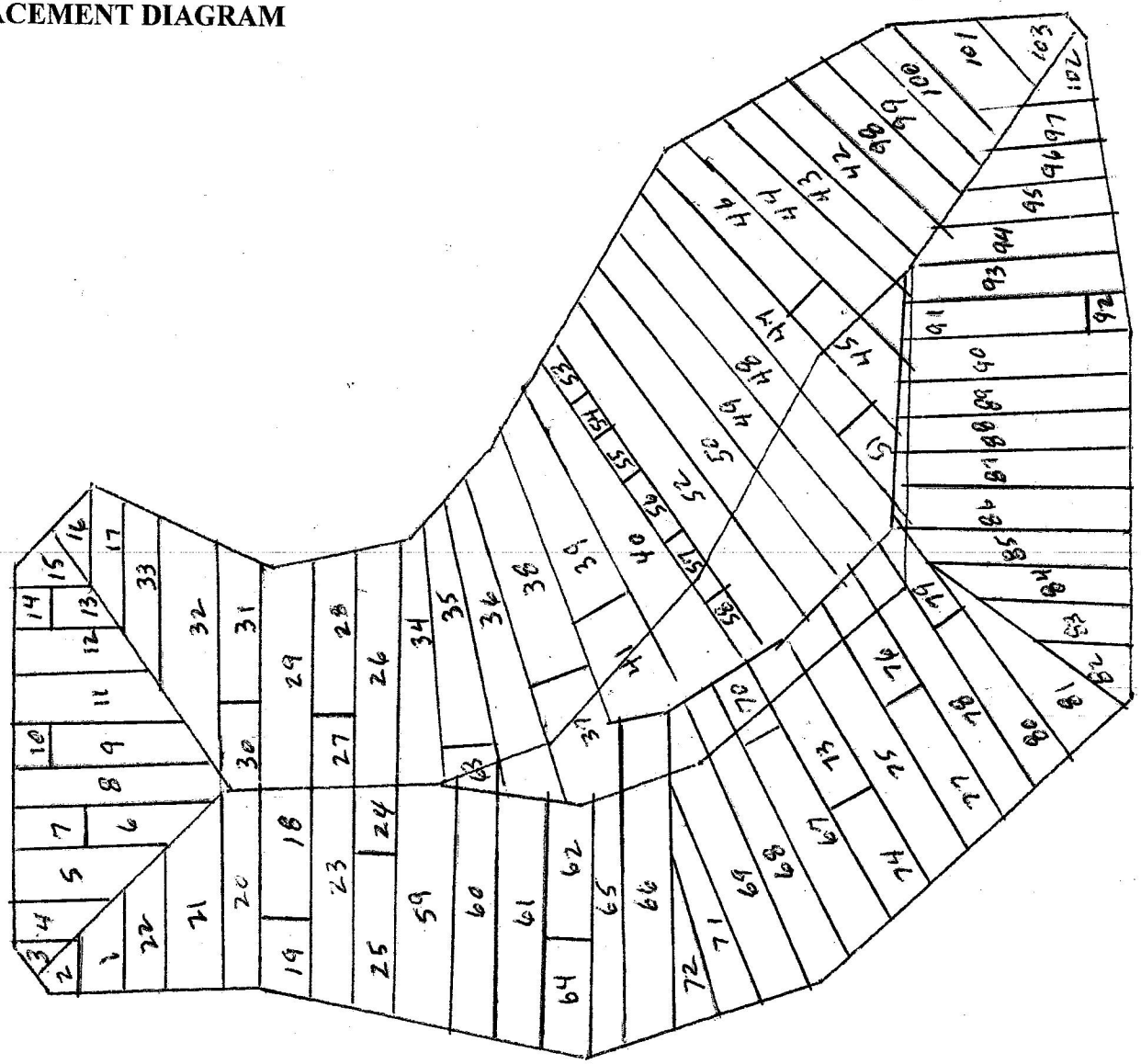
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 4/15/08

LINER MATERIAL: LO-BENTOMAT DN

NORTH



ASARCO EL PASO
POND 6 - 60MIL HDPE BOTTOM LINER PANEL SURVEY

Number	Northing	Westing	Panel Numbers
1	31°46.798	106° 31.234	1, 2
2	31°46.797	106° 31.238	2, 3
3	31°46.797	106° 31.242	3, 4
4	31°46.797	106° 31.246	4, 5
5	31°46.798	106° 31.251	5, 6
6	31°46.800	106° 31.250	6, 7
7	31°46.804	106° 31.250	7, 8
8	31°46.808	106° 31.252	8, 9
9	31°46.811	106° 31.252	9, 10
10	31°46.815	106° 31.251	10, 11
11	31°46.819	106° 31.250	11, 12
12	31°46.821	106° 31.247	12, 13
13	31°46.820	106° 31.243	13, 14
14	31°46.818	106° 31.239	14, 15
15	31°46.819	106° 31.234	15, 16
16	31°46.819	106° 31.230	16, 49
17	31°46.797	106° 31.231	1, 17
18	31°46.798	106° 31.226	17, 18
19	31°46.797	106° 31.221	18, 19
20	31°46.796	106° 31.218	19, 20
21	31°46.797	106° 31.213	20, 21
22	31°46.798	106° 31.210	21, 22
23	31°46.800	106° 31.206	22, 23
24	31°46.803	106° 31.203	23, 24
25	31°46.805	106° 31.198	24, 25
26	31°46.808	106° 31.195	25, 26
27	31°46.811	106° 31.193	26, 27
28	31°46.814	106° 31.191	27, 28
29	31°46.817	106° 31.188	28, 29
30	31°46.820	106° 31.189	29, 30
31	31°46.824	106° 31.189	30, 31
32	31°46.826	106° 31.189	31, 32
33	31°46.831	106° 31.190	32, 33
34	31°46.834	106° 31.191	33, 34
35	31°46.838	106° 31.192	34, 35
36	31°46.842	106° 31.193	35, 36
37	31°46.846	106° 31.193	36, 37
38	31°46.848	106° 31.197	37, 38
39	31°46.848	106° 31.199	38, 39
40	31°46.847	106° 31.204	39, 40

survey coordinates obtained from handheld GPS unit

ASARCO EL PASO
POND 6 - 60MIL HDPE BOTTOM LINER PANEL SURVEY

Number	Northing	Westing	Panel Numbers
41	31°46.845	106° 31.208	40, 41
42	31°46.843	106° 31.211	41, 42
43	31°46.840	106° 31.214	42, 43
44	31°46.837	106° 31.216	43, 44
45	31°46.834	106° 31.219	44, 45
46	31°46.830	106° 31.221	45, 46
47	31°46.827	106° 31.224	46, 47
48	31°46.823	106° 31.225	47, 48
49	31°46.820	106° 31.227	48, 49
50	31°46.799	106° 31.247	4, 5, 6
51	31°46.800	106° 31.246	4, 6, 7
52	31°46.804	106° 31.243	3, 4, 7, 8
53	31°46.807	106° 31.238	2, 3, 14, 15
54	31°46.808	106° 31.239	8, 9, 14
55	31°46.812	106° 31.243	9, 10, 13, 14
56	31°46.815	106° 31.247	10, 11, 13
57	31°46.818	106° 31.247	11, 12, 13
58	31°46.808	106° 31.234	1, 2, 15, 16
59	31°46.808	106° 31.230	1, 16, 17, 50
60	31°46.808	106° 31.225	17, 18, 50, 51
61	31°46.816	106° 31.230	16, 49, 50
62	31°46.812	106° 31.225	49, 50, 51
63	31°46.809	106° 31.221	49, 51, 57
64	31°46.808	106° 31.221	18, 51, 57
65	31°46.809	106° 31.221	18, 19, 57
66	31°46.809	106° 31.216	19, 20, 56, 57
67	31°46.811	106° 31.219	48, 49, 56, 57
68	31°46.802	106° 31.213	20, 21, 22
69	31°46.807	106° 31.213	20, 22, 23
70	31°46.810	106° 31.214	20, 23, 56
71	31°46.811	106° 31.213	23, 55, 56
72	31°46.813	106° 31.212	23, 24, 55
73	31°46.814	106° 31.215	47, 48, 55, 56
74	31°46.816	106° 31.213	47, 54, 55
75	31°46.817	106° 31.214	46, 47, 54
76	31°46.821	106° 31.212	45, 46, 53, 54
77	31°46.824	106° 31.210	44, 45, 52, 53
78	31°46.827	106° 31.205	31, 32, 43, 44, 52
79	31°46.823	106° 31.204	30, 31, 52, 58
80	31°46.822	106° 31.203	26, 30, 58

survey coordinates obtained from handheld GPS unit

ASARCO EL PASO
POND 6 - 60MIL HDPE BOTTOM LINER PANEL SURVEY

Number	Northing	Westing	Panel Numbers
81	31°46.830	106° 31.203	32, 33, 42, 43
82	31°46.834	106° 31.203	33, 34, 41, 42
83	31°46.838	106° 31.201	34, 35, 40, 41
84	31°46.842	106° 31.199	35, 36, 39, 40
85	31°46.846	106° 31.196	36, 37, 38, 39
86	31°46.821	106° 31.205	26, 53, 58
87	31°46.811	106° 31.206	25, 26, 53
88	31°46.817	106° 31.208	25, 53, 54
89	31°46.815	106° 31.208	24, 25, 54
90	31°46.814	106° 31.210	24, 55
91	31°46.814	106° 31.208	24, 54, 55
92	31°46.816	106° 31.192	27, 28, 29
93	31°46.820	106° 31.197	29, 30
94	31°46.820	106° 31.1202	27, 30

survey coordinates obtained from handheld GPS unit

SCALE - 1"=30'

30 0 30 60

DS - DESTRUCTIVE TEST ON FUSION WELDED SEAMS

DSE - DESTRUCTIVE TEST ON EXTRUSION WELDED SEAMS & REPAIRS

ENVIRONMENTAL SPECIALTIES INTERNATIONAL
7943 PECUE LANE SUITE A
BATON ROUGE, LOUISIANA 70809

NORTH

REV.	DESCRIPTION	DATE	BY
1	DS FUSION		
2	DS EXTRUSION		

TITLE:

ASARCO, INC
ELPASO FACILITY
POND 6 CONSTRUCTION & CLOSURE
EL PASO, TX

CHECKED BY: 04-20-08	DATE
DRAWN BY: JOSE N. REYES	DATE
SCALE 1"=30'	
JOB NUMBER 08-02-1019	
SHEET NUMBER 1 OF 1	

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H. 13 Top Liner Installation Field Quality Control, Landfill Cell 1

American Environmental Group, Ltd.

Project Completion Report

Sold To: _____ **Project Name:** Asarco Cap

_____ **Project Number:** _____

_____ **Date Complete:** 11-13-06 Mon

FINAL QUANTITIES

ITEM	DESCRIPTION	QUANTITY	NOTES
	GCL	139,500	
	40 MIL SMOOTH	130536	
	SS GEOCOMPOSITE	131625	

AEGL MATERIALS LEFT ON SITE

DESCRIPTION	QUANTITY	NOTES

LIST ALL ROLL NUMBERS ON THE MATERIAL REPORT AND ATTACH TO THIS REPORT

DID YOU HAVE FIELD CHANGE ORDERS _____ HOW MANY: [ ]

THIS JOB IS 100% DONE [y] IF NOT, EXPECTED RETURN DATE: _____

Notes: _____

The project has been left in a clean, orderly fashion acceptable to the customer . _____ (INITIALS) _____ (DATE)

THE WORK IS COMPLETE, SATISFACTORY, QUANTITIES AGREED TO AND ACCEPTED BY:

AEGL SUPERINTENDENT SIGNATURE

11-13-06
DATE

Kirk Gates
AUTHORIZED SIGNATURE

ADMIN MANAGER
TITLE

ENTRACT SERVICES, LLC
COMPANY

11/13/06
DATE

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco Cap
	Richfield, OH 44286	LOCATION:	El Paso TX
		PROJECT #	

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

C-1 Thru C-31

[redacted]

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
Deth Phakonekham		Supervisor	11/11/06

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE
Kirk Gates		Admin Manager	11/11/06

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE

ENTACT

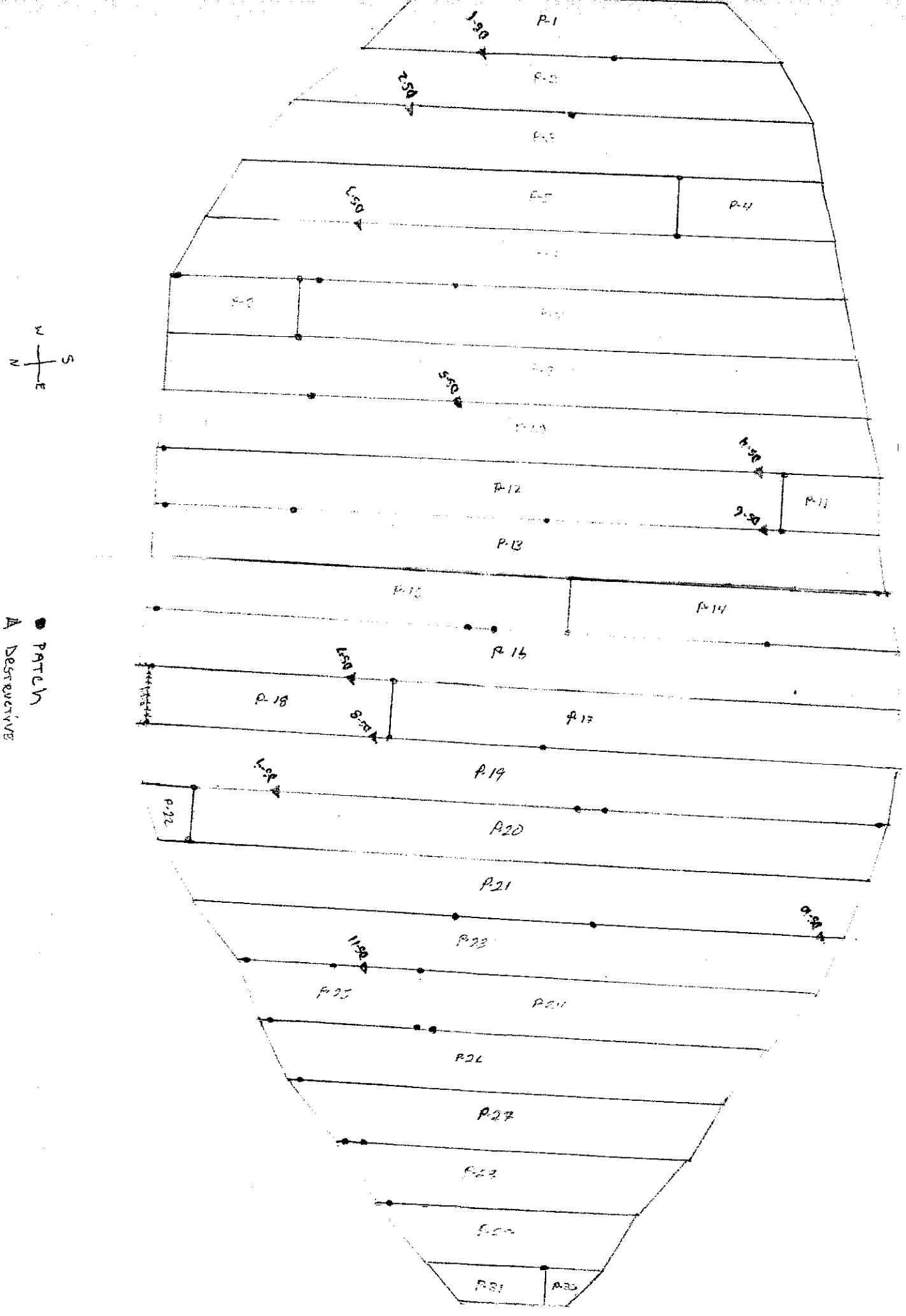
HEALTH AND SAFETY TRAINING SIGN-IN SHEET

Date: 11/9/06	Instructor: KIRK GATES / ZEKE LITTLEFIELD	Page 1 of 1

- ☐ HAZWOPER 40 Hour
- ☐ Initial 8 Hour LPS
- ☐ Confined Space 8 Hour
- ☐ HAZWOPER 8 Hour Refresher
- ☐ HAZWOPER 8 Hour Supervisor
- ☐ Defensive Driving
- ☒ Other (specify): ASARCO EL PASO, TEXAS SITE SPECIFIC H&S PLAN & SITE ORIENTATION

Print Name	Subcontractor Or Vendor?	Company Name	Current Job Site Location	Signature
DETH PHAKONEKHAM	☑ Yes ☐ No	AEG - SUPERVISOR	ASARCO	
SOOKSAVANH KONEMANY	☑ Yes ☐ No	AEG		
DANNY THONGDARONG	☑ Yes ☐ No	AEG		
TONG PHRAKONEKHAM	☑ Yes ☐ No	AEG		
SINHXAY SUNDARA	☑ Yes ☐ No	AEG		
ANOUSACK PHOMPHAKSAVANH	☑ Yes ☐ No	AEG		
VONGSAVAN PHAYSAKDA	☑ Yes ☐ No	AEG		
CHANHORM PHAYSAKDA	☑ Yes ☐ No	AEG		
SOUPHOM KHAMPANNHA	☑ Yes ☐ No	AEG		
DAVID XAYAVONG	☑ Yes ☐ No	AEG		

Instructor must please return this sign-in sheet to Lori Smith or Becky Girouard, Corporate Health and Safety. Thank you.


P-1
1.20
P-2
2.50
P-3
P-4
1.50
P-5
P-6
P-7
P-8
P-9
5.50
P-10
P-11
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P-13
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1.50
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P-18
8.50
P-19
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P-20
P-21
P-22
P-23
11.50
P-24
P-25
P-26
P-27
P-28
P-29
P-30
P-31
N
S
E
W
PATCH
DESTRUCTIVE
EXTRUSION

American Environmental Group, Ltd.
Pre-Weld / Destructive Sample Information

Project Name: ASARCO **Job#:**
Project Manager: Tom Spark **Primary** **Secondary** **Other:** cap
Superintendent: Deth P **Material:** 40mil
Reported By: Danny **PRE-WELD**

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Peel Test(Extr.) min ppi Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Peel Test(Fusion) ppi Coupon 4 A / B	Coupon 5 A / B	Shear Test mim ppi Coupon 1 Shear	Coupon 2 Shear	Results	Notes
		7:00	11/11	VP	W#3	60/61	57/56	58/57	/	/	72	71	P	
		7:00		JK	W#5	57/55	56/53	57/54	/	/	75	76	P	
		7:00		AP	W#2	54/52	57/53	55/53	/	/	74	72	P	
		12:30		AP	W#2	56/53	55/52	54/51	/	/	75	76	P	
		12:30		VP	W#3	56/54	57/55	55/51	/	/	76	74	P	
		1:00		SS	G#294	67	68	70	/	/	77	75	P	
		7:00	11/12	SS	G#294	75	74	71	/	/	73	75	P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	

Samples Sent Via: Last Sample #: On (Date):

Notes:

American Environmental Group, Ltd.
Pre-Weld / Destructive Sample Information

Project Name: ASARCO
Project Manager: Tom Spark
Superintendent: Deth P
Reported By: Danny

Job#:

Primary **Secondary** **Other:** cap

Material: 40mil

DESTRUCTIVE SAMPLE

D.S. No.	Seam No.	Weld Time	Weld Date	Operator Name/ ID	Machine Number	Peel Test(Extr.) min ppi Coupon 1 A / B	Coupon 2 A / B	Coupon 3 A / B	Peel Test(Fusion) ppi Coupon 4 A / B	Coupon 5 A / B	Shear Test mim ppi Coupon 1 Shear	Coupon 2 Shear	Results	Notes
DS-1	P-1/2	7:20	11/11	AP	W#2	54/52	56/53	55/52	/	/	73	74	P	
DS-2	P-2/3	7:35		VP	W#3	57/56	57/54	55/58	/	/	74	76	P	
DS-3	P-5/7	8:05		JK	W#5	57/60	53/56	54/56	/	/	75	76	P	
DS-4	P-10/12	9:40		AP	W#2	60/61	56/53	66/61	/	/	75	74	P	
DS-5	P-9/10	9:10		VP	W#3	55/52	54/51	58/54	/	/	74	73	P	
DS-6	P-12/13	9:50		VP	W#3	53/55	56/60	55/52	/	/	76	72	P	
DS-7	P-16/17	10:50		VP	W#3	60/57	54/51	52/54	/	/	74	76	P	
DS-8	P-18/19	11:25		JK	W#5	53/52	55/57	54/51	/	/	76	77	P	
DS-9	P-19/20	11:40		AP	W#2	54/52	51/53	52/54	/	/	71	73	P	
DS-10	P-21/23	1:30		AP	W#2	51/50	52/51	54/55	/	/	75	77	P	
DS-11	P-23/25	2:30		VP	W#3	50/52	53/55	56/53	/	/	76	74	P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	
									/	/			P	

Samples Sent Via: _____ Last Sample #: _____ On (Date): _____

Notes: _____

American Environmental Group Ltd.

PANEL PLACEMENT FORM

Client: ENTACT

Project: ASARCO

Panel Number	Roll Number	Date Deployed	Width	Length	Area	Comments
P-1	0220	11/11/06	23	181	3,507	PIE
P-2	0220			225	4,864	PIE
P-3	0220			254	5,612	PIE
P-4	0220			67	1,541	
P-5	0032			204	4,692	
P-6	0032			288	6,624	
P-7	0032			243	5,589	
P-8	0025			56	1,288	
P-9	0025			306	7,038	
P-10	0025			310	7,130	
P-11	0025			43	989	
P-12	0208			268	6,164	
P-13	0208			320	7,360	
P-14	0208			140	3,220	
P-15	0234			185	4,255	
P-16	0234			327	7,521	
P-17	0234			220	5,060	
P-18	0028			110	2,530	
P-19	0028			320	7,360	
P-20	0028			295	6,785	
P-21	0225			280	6,612	PIE

American Environmental Group Ltd.

PANEL PLACEMENT FORM

Client: ENTACT

Project: ASARCO

Panel Number	Roll Number	Date Deployed	Width	Length	Area	Comments
P-22	0255	11/11/06	23	28	322	PIE
P-23	0225			248	5,876	PIE
P-24	0225			150	3,622	PIE
P-25	0222			70	1,610	
P-26	0222			186	4,393	PIE
P-27	0222			149	3,542	PIE
P-28	0222			114	2,737	PIE
P-29	0222			74	1,817	PIE
P-30	0220		15	40	600	
P-31	0222		23	24	276	PIE

American Environmental Group Ltd.

PANEL SEAMING FORM

Client: ENTACT
Project: ASARCO

Material: 40MIL
Job#:

Date	Start Time	Seam Number	Machine Number	Technician ID	Seam Length	Type of Weld	Comments
11/11/06	7:20 AM	P-1/2	W#2	AP	107'	FUSION	
	7:30 AM	P-1/2	W#2	AP	74'		
	7:35 AM	P-2/3	W#3	VP	125'		
	7:43 AM	P-2/3	W#3	VP	100'		
	8:10 AM	P-3/5	W#2	AP	204'		
	8:00 AM	P-4/5	W#2	AP	23'		
	8:20 AM	P-3/4	W#2	AP	67'		
	8:06 AM	P-5/6	W#5	JK	204'		
	8:27 AM	P-4/6	W#5	JK	68'		
	8:10 AM	P-6/7	W#3	VP	12'		
	8:25 AM	P-6/7	W#3	VP	122'		
	8:15 AM	P-6/7	W#3	VP	109'		
	8:40 AM	P-6/8	W#3	VP	56'		
	8:40 AM	P-7/8	W#2	AP	23'		
	8:55 AM	P-8/9	W#5	JK	56'		
	9:05 AM	P-7/9	W#5	JK	243'		
	9:05 AM	P-9/10	W#3	VP	65'		
	9:10 AM	P-9/10	W#3	VP	245'		

American Environmental Group Ltd.

PANEL SEAMING FORM

Client: ENTACT
Project: ASARCO

Material: 40MIL
Job#:

Date	Start Time	Seam Number	Machine Number	Technician ID	Seam Length	Type of Weld	Comments
11/11/06	9:40 AM	P-10/12	W#2	AP	264'	FUSION	
	10:09 AM	P-10/11	W#2	AP	43'		
	9:43 AM	P-11/12	W#5	JK	23'		
	9:50 AM	P-12/13	W#3	VP	60'		
	10:07 AM	P-12/13	W#3	VP	105'		
	10:12 AM	P-12/13	W#3	VP	104'		
	10:15 AM	P-11/13	W#3	VP	40'		
	10:28 AM	P-13/15	W#5	JK	168'		
	10:32 AM	P-13/15	W#5	JK	117'		
	10:20 AM	P-14/15	W#2	AP	23'		
	10:40 AM	P-13/14	W#5	JK	136'		
	10:40 AM	P-15/16	W#2	AP	136'		
	10:50 AM	P-15/16	W#2	AP	10'		
	11:00 AM	P-15/16	W#2	AP	32'		
	11:07 AM	P-14/16	W#2	AP	36'		
	11:12 AM	P-14/16	W#2	AP	55'		
	11:15 AM	P-16/18	W#3	VP	10'		
	11:17 AM	P-16/18	W#3	VP	100'		

American Environmental Group Ltd.

PANEL SEAMING FORM

Client: ENTACT
Project: ASARCO

Material: 40MIL
Job#:

Date	Start Time	Seam Number	Machine Number	Technician ID	Seam Length	Type of Weld	Comments
11/11/06	11:10 AM	P-17/18	W#5	JK	23	FUSION	
	10:50 AM	P-16/17	W#3	VP	220		
	11:25 AM	P-18/19	W#5	JK	110		
	11:30 AM	P-17/19	W#5	JK	66		
	11:35 AM	P-17/19	W#5	JK	154		
	1:25 PM	P-19/22	W#3	VP	28		
	1:26 PM	P-20/22	W#3	VP	23		
	11:40 PM	P-19/20	W#2	AP	165		
	11:50 P	P-19/20	W#2	AP	10		
	11:40 PM	P-19/20	W#3	VP	116		
	1:35 PM	P-20/21	W#3	VP	271		
	1:30 PM	P-21/23	W#2	AP	115		
	1:37 PM	P-21/23	W#2	AP	54		
	1:42 AM	P-21/23	W#2	AP	99		
	2:30 AM	P-23/25	W#3	VP	70		
	2:10 PM	P-24/25	W#3	VP	23		
	2:19 PM	P-23/24	W#3	VP	114		
	2:15 PM	P-23/24	W#3	VP	40		

American Environmental Group Ltd.

PANEL SEAMING FORM

Client: ENTACT
Project: ASARCO

Material: 40MIL
Job#:

Date	Start Time	Seam Number	Machine Number	Technician ID	Seam Length	Type of Weld	Comments
11/11/06	2:05 PM	P-24/26	W#2	AP	141	FUSION	
	2:20 PM	P-25/26	W#2	AP	60		
	2:45 PM	P-26/27	W#3	VP	149		
	2:50 PM	P-27/28	W#2	AP	4		
	2:51 PM	P-27/28	W#2	AP	138		
	3:00 PM	P-28/29	W#3	VP	110		
	3:00 PM	P-29/30	W#2	AP	40		
	3:15 PM	P-30/31	W#3	VP	15		
	3:15 PM	P-29/31	W#2	AP	24		

American Environmental Group Ltd.

NON DESTRUCTIVE SEAM TEST LOG

Client: ENTACT
Project: ASARCO

Material: 40 MIL
Job#:

Test Date	Seam Number	Tested By	Air Testing					Vacuum Box	Comments
			Pressure		Time		P/F	P/F	
			Start	End	Start	End			
11/11/06	P-1/2	CP	30/	30/	7:45 AM	7:50 AM	P		
	P-1/2		30/	30/	7:45 AM	7:50 AM	P		
	P-2/3		30/	30/	7:50 AM	7:55 AM	P		
	P-2/3		30/	29/	7:50 AM	7:55 AM	P		
	P-3/5		30/	30/	8:05 AM	8:10 AM	P		
	P-4/5		30/	30/	8:01 AM	8:06 AM	P		
	P-3/4		30/	30/	8:05 AM	8:10 AM	P		
	P-5/6		30/	29/	8:30 AM	8:35 AM	P		
	P-6/4		30/	30/	8:30 AM	8:35 AM	P		
	P-6/7		30/	30/	8:15 AM	8:20 AM	P		
	P-6/7		30/	30/	8:40 AM	8:45 AM	P		
	P-6/7		30/	30/	8:40 AM	8:45 AM	P		
	P-6/8		30/	29/	9:00 AM	9:05 AM	P		
	P-7/8		30/	30/	9:00 AM	9:05 AM	P		
	P-8/9		30/	30/	9:20 AM	9:25 AM	P		
	P-7/9		30/	29/	9:20 AM	9:25 AM	P		
	P-9/10		30/	30/	9:35 AM	9:40 AM	P		
	P-9/10		30/	30/	9:35 AM	9:40 AM	P		
	P-10/11		30/	30/	10:22 #######	10:27 #######	P		

American Environmental Group Ltd.

NON DESTRUCTIVE SEAM TEST LOG

Client: ENTACT
Project: ASARCO

Material: 40 MIL
Job#:

Test Date	Seam Number	Tested By	Air Testing					Vacuum Box	Comments
			Pressure		Time		P/F	P/F	
			Start	End	Start	End			
11/11/06	P-10/12	CP	30/	30/	10:22 #######	10:27 #######	P		
	P-11/12		30/	30/	10:30 #######	10:35 #######	P		
	P-12/13		30/	30/	10:05 #######	10:10 #######	P		
	P-12/13		30/	30/	10:15 #######	10:20 #######	P		
	P-12/13		30/	29/	10:30 #######	10:35 #######	P		
	P-11/13		30/	30/	10:30 #######	10:35 #######	P		
	P-13/15		30/	30/	11:02 #######	11:07 #######	P		
	P-13/15		30/	30/	10:47 #######	10:52 #######	P		
	P-14/15		30/	30/	11:08 #######	11:13 #######	P		
	P-13/14		30/	30/	10:43 #######	10:52 #######	P		
	P-15/16		30/	30/	10:55 #######	11:00 #######	P		
	P-15/16		30/	30/	11:08 #######	11:13 #######	P		
	P-14/16		30/	30/	11:15 #######	11:20 #######	P		
	P-14/16		30/	30/	11:20 #######	11:25 ~~5:45~~ AM	P		
	P-16/18		30/	30/	11:34 #######	11:39 #######	P		
	P-16/18		30/	30/	11:27 #######	11:32 #######	P		
	P-17/18		30/	30/	11:28 #######	11:35 #######	P		
	P-16/17		30/	30/	11:27 #######	11:32 #######	P		
	P-18/19		30/	30/	11:40 #######	11:45 #######	P		

American Environmental Group Ltd.

NON DESTRUCTIVE SEAM TEST LOG

Client: ENTACT
Project: ASARCO

Material: 40 MIL
Job#: 3-04-119

Test Date	Seam Number	Tested By	Air Testing					Vacuum Box	Comments
			Pressure		Time		P/F	P/F	
			Start	End	Start	End			
11/11/06	P-17/19	CP	30/	30/	11:47 #######	11:52 #######	P		
	P-17/19		30/	30/	1:00 PM	1:05 PM	P		
	P-19/22		30/	30/	1:32 PM	1:37 PM	P		
	P-20/22		30/	30/	1:32 PM	1:37 PM	P		
	P-19/20		30/	30/	1:01 PM	1:06 PM	P		
	P-19/20		30/	30/	1:01 PM	1:06 PM	P		
	P-19/20		30/	30/	1:20 PM	1:25 AM	P		
	P-20/21		30/	30/	1:55 PM	2:00 PM	P		
	P-21/23		30/	30/	2:05 PM	2:10 PM	P		
	P-21/23		30/	30/	2:07 PM	2:12 PM	P		
	P-21/23		30/	29/	2:15 PM	2:20 PM	P		
	P-23/25		30/	30/	2:47 PM	2:52 PM	P		
	P-24/25		30/	30/	2:40 PM	2:45 PM	P		
	P-23/24		30/	30/	2:35 PM	2:40 PM	P		
	P-23/24		30/	29/	2:17 PM	2:22 PM	P		
	P-24/26		30/	30/	2:40 PM	2:45 PM	P		
	P-25/26		30/	30/	2:46 PM	2:51 PM	P		
	P-26/27		30/	29/	3:00 PM	3:05 PM	P		
	P-27/28		30/	30/	3:02 PM	3:07 PM	P		

American Environmental Group Ltd.

NON DESTRUCTIVE SEAM TEST LOG

Client: ENTACT
Project: ASARCO

Material: 40 MIL
Job#:

Test Date	Seam Number	Tested By	Air Testing					Vacuum Box	Comments
			Pressure		Time		P/F	P/F	
			Start	End	Start	End			
11/11/06	P-27/28	CP	30/	30/	3:02 PM	3:07 PM	P		
	P-28/29		30/	30/	3:03 PM	3:08 PM	P		
	P-29/30		30/	30/	3:14 PM	3:19 PM	P		
	P-30/31		30/	30/	3:15 PM	3:20 PM	P		
	P-29/31		30/	30/	3:14 PM	3:19 PM	P		

American Environmental Group, Ltd.
Construction Repair Report

Page: 1

Project Name: ASARCO
Project Manager: tom spark
Supintendent: deth .p

☐ HDPE
☐ HDT
☐ PPR
☐ Other:

Date: 11/11/2006
Job#:
Thickness: 40 mil

Primary **Secondary** **Other**

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data		
						Test	Results	Date
R-1	DS-1	P-1/2	50'from bos	P	2x4	VT	P	11/12/2006
R-2	DS-2	P-2/3	50'from bos	P	2x4	VT	P	
R-3	DS-3	P-5/6	62'from bos	P	2x4	V	P	
R-4	BO	P-1/2	107' from bos	P	1x1	VT	P	
R-5	BO	P-2/3	120'from bos	P	2x4	VT	P	
R-6	T	P-3/5	204'from bos	P	1x1	VT	P	
R-7	T	P-6/5	204'from bos	P	2x2	VT	P	
R-8	BO	P-6/7	122'from bos	P	2x2	VT	P	
R-9	BO	P-6/7	12'from bos	P	2x3	VT	P	
R-10	T	P-6/8	56'from bos	P	2x2	VT	P	
R-11	BO	P-6/8	BOS	P	2x2	VT	P	
R-12	T	P-8/9	56'from bos	P	2x2	VT	P	
R-13	BO	P-9/10	65'from bos	P	2x2	VT	P	
R-14	DS-5	P-9/10	125'from bos	P	2x4	VT	P	
R-15	DS-4	P-10/12	260'from bos	P	2x4	VT	P	
R-16	T	P-10/12	268'from bos	P	1x1	VT	P	
R-17	T	P-12/13	268'from bos	P	2X2	VT	P	
R-18	DS-6	P-12/13	265'from bos	P	2x4	VT	P	
R-19	BO	P-10/12	BOS	P	3x4	VT	P	
R-20	BO	P-12/13	8'from bos	P	2x2	VT	P	
R-21	BO	P-12/13	60'from bos	P	1x1	VT	P	
R-22	BO	P-12/13	165'from bos	P	1x1	VT	P	
R-23	BO	P-12/13	4'from eos	P	1x1	VT	P	
R-24	BO	P-13/14	EOS	P	3x4	VT	P	
R-25	BO	P-13/15	68'from bos	P	1x1	VT	P	
R-26	T	P-13/15	185'from bos	P	1x4	VT	P	
R-27	T	P-15/16	185'from bos	P	2x2	VT	P	
R-28	BO	P-14/16	86'from bos	P	1x1	VT	P	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
EE - Earthwork Equipment Damage
FM - Fish Mouth
ES- Exposed Scrim

SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group, Ltd.
Construction Repair Report

Page: 2

Project Name: ASARCO
Project Manager: tom spark
Supintendent: deth .p

☐ HDPE
☐ HDT
☐ PPR
☐ Other:

Date: 11/11/2006
Job#:
Thickness: 40 MIL

Primary **Secondary** **Other**

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data		
						Test	Results	Date
R-29	BO	P-15/16	146' from bos	P	1x2	VT	P	11/12/2006
R-30	BO	P-15/16	136'from bos	P	1x1	VT	P	
R-31	BO	P-13/15	68'from bos	P	1x1	V	P	
R-32	BO	P-15/16	BOS	P	3x4	VT	P	
R-33	BO	P-16/18	BOS	P	1x3	VT	P	
R-34	BO	P-16/18	10'from bos	P	1x1	VT	P	
R-35	DS-7	P-16/18	94'from bos	P	2x2	VT	P	
R-36	DS-8	P-18/19	105'from bos	P	2x4	VT	P	
R-37	DS-9	P-19/20	34'from bos	P	2x4	VT	P	
R-38	T	P-18/19	110'from bos	P	1x1	VT	P	
R-39	T	P-16/18	110'from bos	P	1x3	VT	P	
R-40	BO	P-17/19	66' from bos	P	1x1	VT	P	
R-41	BO	P-19/20	165'from bos	P	1x1	VT	P	
R-42	BO	P-19/20	175'from bos	P	1x1	VT	P	
R-43	BO	P-19/20	7'from eos	P	1x1	VT	P	
R-44	T	P-19/22	28'from bos	P	2x2	VT	P	
R-45	T	P-21/22	9'from bos	P	1x1	VT	P	
R-46	DS-10	P-21/23	13'from eos	P	2x4	VT	P	
R-47	DS-11	P-23/25	52'from bos	P	2x4	VT	P	
R-48	BO	P-23/25	40'from bos	P	1x1	VT	P	
R-49	BO	P-21/23	115'from bos	P	1x1	VT	P	
R-50	BO	P-21/23	170'from bos	P	1x1	VT	P	
R-51	BO	P-23/25	4'from bos	P	1x2	VT	P	
R-52	T	P-23/25	142'from bos	P	1x8	VT	P	
R-53	BO	P-23/24	150'from bos	P	1x1	VT	P	
R-54	BO	P-24/26	7' from bos	P	1x1	VT	P	
R-55	T	P-25/26	140'from bos	P	1x2	VT	P	
R-56	BO	P-25/26	6'from bos	P	1x1	VT	P	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
EE - Earthwork Equipment Damage
FM - Fish Mouth
ES- Exposed Scrim

SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group, Ltd.
Construction Repair Report

Page: 3

Project Name: ASARCO
Project Manager: tom spark
Supintendent: deth .p

☐ HDPE
☐ HDT
☐ PPR
☐ Other:

Date: 11/12/2006
Job#:
Thickness: 40 MIL

Primary **Secondary** **Other**

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data		
						Test	Results	Date
R-57	BO	P-26/27	6'from bos	P	1x1	VT	P	11/12/2006
R-58	BO	P-27/28	7'from bos	P	1x1	VT	P	
R-59	BO	P-27/28	12'from bos	P	1x1	V	P	
R-60	BO	P-28/29	6'from bos	P	1x1	VT	P	
R-61	T	P-29/31	40'from bos	P	1x1	VT	P	
R-62	BO	P-12/13	9'from bos	P	1x1	VT	P	
R-63	BO	P-13/15	BOS	P	1x3	VT	P	
R-64	ES	P-18	BOS	C	5x23	VT	P	
R-65	BO	P-21/23	BOS	P	1x1	VT	P	
				P		VT	P	
				P		VT	P	
				P		VT	P	
				P		VT	P	
				P		VT	P	
				P		VT	P	
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				P		VT	P	
				P		VT	P	
				P		VT	P	
				P		VT	P	
				P		VT	P	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
EE - Earthwork Equipment Damage
FM - Fish Mouth
ES- Exposed Scrim
SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.14 Top Liner Installation Field Quality Control, Landfill Cell 2

American Environmental Group Ltd.

CERTIFICATE OF SOIL SURFACE ACCEPTANCE

GEOSYNTHETIC INSTALLER		PROJECT	
COMPANY:	American Environmental Group, Ltd.	OWNER:	
ADDRESS:	3600 Brecksville Rd, Suite 100	PROJECT:	Asarco
	Richfield, OH 44286	LOCATION:	El Paso TX
		PROJECT #	

I the Undersigned, a duly authorized representative of American Environmental Group, Ltd. do hereby accept the area of soil surface bounded by

P-1 Thru P-11

as an acceptable surface on which to install geosynthetic materials, and shall be responsible for maintaining its integrity and suitability in accordance with the project specifications from this date to the completion of the installation.

NAME	SIGNATURE	TITLE	DATE
Deth Phakonekham		Supervisor	11-26-07 Mon

CERTIFICATE OF ACCEPTANCE RECEIVED BY CQA RESIDENT MANAGER

NAME	SIGNATURE	TITLE	DATE

CERTIFICATE OF ACCEPTANCE RECEIVED BY THE OWNER

NAME	SIGNATURE	TITLE	DATE
	Sam Moss	Field Project Manager	11/27/07

ASARCO EL PASO
CONTRACTOR ORIENTATION
&
ENTACT SAFETY PLAN

ATTACHMENT B SAFETY PLAN ACKNOWLEDGMENT FORM

I have been informed and understand and will abide by the procedures set forth in the Health and Safety Plan and Amendments for the Asarco Waste Repository site.

Printed Name	Signature	Company	Date
DETH PHAKONEKHAM		AEG	11-26-07
SINHXAY SUNDARA		AEG	
ALONG PHANGNG		AEG	
Somphan Sanprasert		AEG	
SOUKSAVANH KONEMANY		AEG	
VONGSAVANH PHAYSAKDA		AEG	
CHANHORM PHAYSAKDA		A.E.G	
Watthana Khoupheng phet		AEG.	

Page _____ of _____

American Environmental Group Ltd.

PANEL PLACEMENT FORM

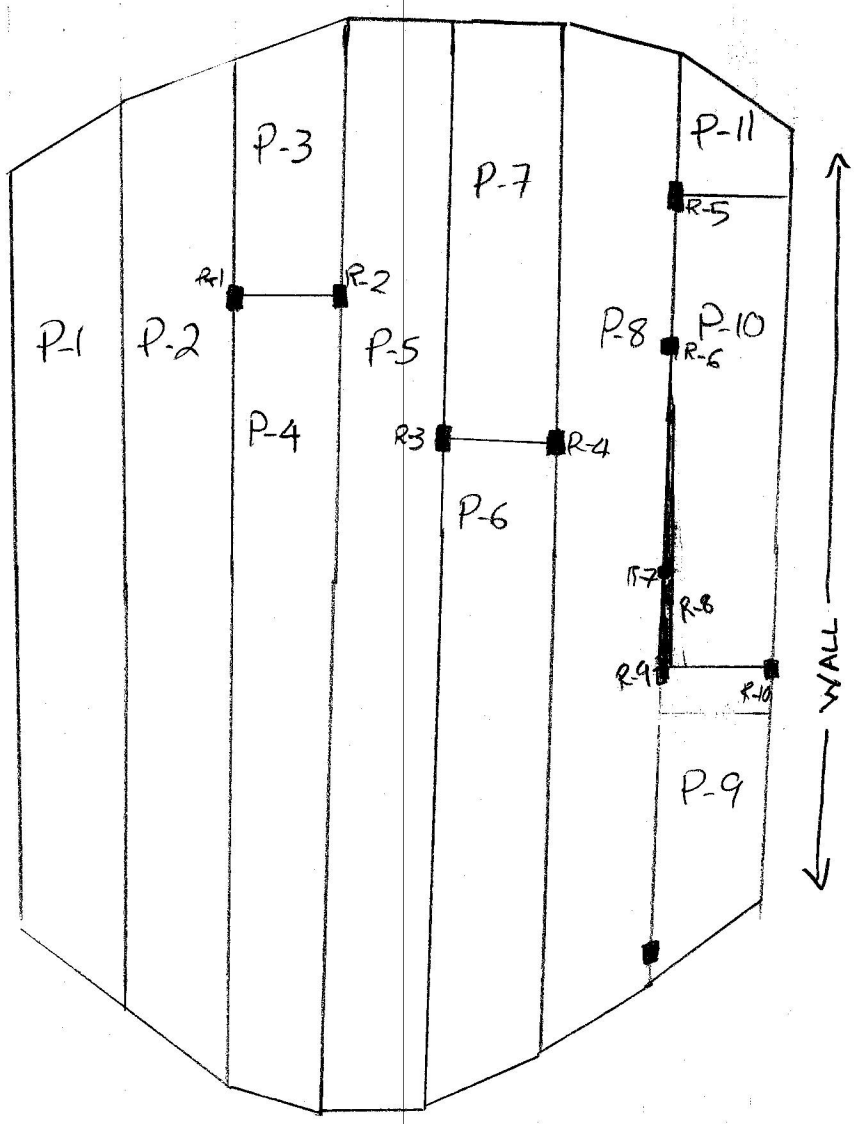
Client: _____

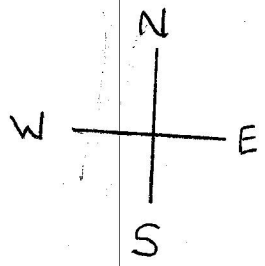
Project: Asarco

Panel Number	Roll Number	Date Deployed	Width	Length	Area	Comments
P-1	0024	11/26/07	23	304	6,992	
P-2	0024		23	321	7,383	
P-3	0024		23	83	1,909	
P-4	0020		23	238	5,474	
P-5	0020		23	321	7,383	
P-6	0020		23	187	4,301	
P-7	0211		23	127	2,921	
P-8	0211		23	292	6,716	
P-9	0211		23	100	2,300	
P-10	0211		23	97	2,231	
P-11	0211		18.05	23	415	
						TOTAL 40 MIL
						SQUARE FEET
						48,025

ASARCO - EL PASO

POND 5 - 40 MIL PANEL LAYOUT





American Environmental Group, Ltd.
Construction Repair Report

Page: _____

Project Name: Asarco
Project Manager: Tom Sparks
Supintendent: Deth Phakonekham

[ ]	HDPE
[ ]	HDT
[ ]	PPR
[ ]	Other: _____

Date: _____
Job#: _____
Thickness: 40 Mil

Primary **Secondary** **Other**

VT=Vacum Test ST=Spark Test PT=Probe Test

Repair Number	Damage Code	Seam # or Panel #	Location	Repair Type	Approx. Size	Test Data: Test	Test Data: Results	Test Data: Date
R-1	T	P2/P3	83 BOS	P	2x3	VT ST PT	P F	26-Nov
R-2	T	P4/P5	84 BOS	P	2x2	VT ST PT	P F	26-Nov
R-3	T	P5/P6	187 BOS	P	2x3	VT ST PT	P F	26-Nov
R-4	T	P6/P-8	189 BOS	P	2x3	VT ST PT	P F	26-Nov
R-5	T	P8/P11	23 BOS	P	3x3	VT ST PT	P F	26-Nov
R-6	CR	P8/P10	89 BOS	P	3x3	VT ST PT	P F	26-Nov
R-7	T	P8/P9	127 BOS	P	2x3	VT ST PT	P F	26-Nov
R-8		P8/P10	145 BOS	C	6x30	VT ST PT	P F	27-Nov
R-9		P8/P9	150 BOS	C	2x20	VT ST PT	P F	27-Nov
R-10		P9	TOS	C	20-Feb	VT ST PT	P F	27-Nov
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
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						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	
						VT ST PT	P F	

Vacum Test: PSI for Seconds. Probe Test: PSI.

Damage Codes:

Bo - Burn Out
CR - Crease
DS-# Destruct Sample
EE - Earthwork Equipment Damage
FM - Fish Mouth
ES- Exposed Scrim
SI - Subgrade Irregularity
RW- Roller Wrinkle in Seam
WR - Wrinkle
WS - Welder Restart
BL - Blister
T - Joint

Repair Types:

C - Cap Strip
P - Patch
B - Extrusion Bead

* TOS - Top of Slope
** BOS - Toe of Slope

American Environmental Group Ltd.

TRIAL WELD TEST FORM

Client: _____

Project: Asarco

Material: 40 Mil Smooth

Job #: _____

Date	Time	Amb Temp	Sample Id	Seamer Id	Machine Id	Fusion Speed	Fusion Temp	Extrusion Barrel	Extrusion Preheat	Peel (ppi) Inside Track				Peel (ppi) Outside Track				Shear (Ppi)		Pass/ Fail	Comments
11-26	9:30	°F	VP		10	7	750	96	95	96		90	98	100		125	122	P	
11-26	105	°F	SS		6	7	750	99	92	91		99	95	93		124	127	P	
11-26	1:10	°F	WK		292	265	450	88	78	87						123	122	P	
		°F																	
11-27	7:30	°F			292	265	450	87	90	89						130	132	P	
		°F																	
		°F																	
		°F																	
		°F																	
		°F																	
		°F																	
		°F																	
		°F																	
		°F																	

American Environmental Group Ltd.

Seam Control Form

Project Name: Asarco **Job #** 3-06-032 **Superintendent:** Deth Phakonekham **Page** _____

Material Type: 40 Mil Smooth **Primary** ☐ **Cell** ☐ **Air Pressure Test** _____ **PSI**

Job Description: _____ **Secondary** ☐ **Pond** ☐ **Air Pressure Hold Time** _____ **Minutes**

Reported By _____ **Other** _____ **Pad** ☐ **Allowable Air Pressure Loss** _____ **PSI**

Weld Date	Seam No.	Seam Length	Time Welded	Operator Name/ ID	Mach No.	Mach Speed	Mach Temp	Preheat Temp	Amb Temp	Test Date	Test Type	Air Test Time In	Air Test Time Out	Test Results
11/26/07	P-1 / P-2	304	2:27	VP	10	7	750			26-Nov	AT	3:00 30	3:05 30	P
	P-2 / P-3	83	3:05	SS	6	7	750			26-Nov	AT	3:19 30	3:24 30	P
	P-2 / P-4	238	2:40	SS	6	7	750			26-Nov	AT	3:25 30	3:30 30	P
	P-3 / P-4	22	2:58	SS	6	7	750			26-Nov	AT	3:25 30	3:30 30	P
	P-4 / P-5	238	2:02	SS	6	7	750			26-Nov	AT	3:41 30	3:46 29	P
	P-3 / P-5	83	3:38	VP	10	7	750			26-Nov	AT	3:40 30	3:45 30	P
	P-5 / P-6	127	3:20	VP	10	7	750			26-Nov	AT	3:40 30	3:45 29	P
	P-5 / P-7	187	3:35	VP	10	7	750			26-Nov	AT	4:42 30	4:47 30	P
	P-6 / P-7	22	3:27	SS	6	7	750			26-Nov	AT	4:42 30	4:47 30	P
	P-6 / P-8	118	3:50	VP	10	7	750			27-Nov	AT	7:30 30	7:35 30	P
	P-7 / P-8	177	4:00	SS	6	7	750			26-Nov	AT	4:40	4:45	P
	P-8 / P-9	108	4:15	VP	10	7	750			27-Nov	AT	7:30	7:35	P
	P-8 / P-10	97	4:25	SS	6	7	750			26-Nov	AT	4:40 30	4:45 30	P
	P-8 / P-11	22	4:40	SS	6	7	750			27-Nov	AT	7:35 30	7:40 30	P
	P-9 / P-10	22	4:30	VP	10	7	750			27-Nov	AT	7:36 30	7:40 30	P
	P-10 / P-11	18	4:47	VP	10	7	750			27-Nov	AT	7:45 30	7:50 30	P

American Environmental Group, Ltd.

Project Completion Report

Sold To: _____

Project Name: Asarco - EL PASO

Project Number: D7024

Date Complete: 11-27-07 Tue

FINAL QUANTITIES

ITEM	DESCRIPTION	QUANTITY	NOTES
			ACTUAL
	GCL	~~1~~47,500	47,500 SF KBG
	40 MIL Smooth	~~148250~~ 025	48,025 SF KBG
	SS Geocomposite	~~1480~~525	48,525 SF KBG

AEGL MATERIALS LEFT ON SITE

DESCRIPTION	QUANTITY	NOTES

LIST ALL ROLL NUMBERS ON THE MATERIAL REPORT AND ATTACH TO THIS REPORT

DID YOU HAVE FIELD CHANGE ORDERS _____ HOW MANY: [ ]

THIS JOB IS 100% DONE [y] IF NOT, EXPECTED RETURN DATE: _____

Notes: _____

The project has been left in a clean, orderly fashion acceptable to the customer . KBG (INITIALS) (DATE) 12/3/07

THE WORK IS COMPLETE, SATISFACTORY, QUANTITIES AGREED TO AND ACCEPTED BY:

AEGL SUPERINTENDENT SIGNATURE

11-27-07
DATE

AUTHORIZED SIGNATURE

FPM
TITLE

ENTRACT
COMPANY

11/27/07
DATE

Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.15 Top Liner Installation Field Quality Control, Landfill Cell 3

GCL , 40 MIL HDPE AND GEOCOMPOSITE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: GCL

DATE INSTALLED: 8/23/08

WEATHER:
TEMP RANGE: 70° – 93°
WIND / SPEED / DIR: 0-15MPH FROM S-SE
RAIN: 0"

SIGNED: Kirk Gates - ENTACT
(Signature and Date)

KIRK GATES
(Printed Name)

GCL ROLLS PLACED

1. 6663
2. 6659
3. 6670
4. 6656
5. 6654
6. 6677
7. 6653
8. 6658
9. 6667
10. 6669
11. 6676
12. 6666
13. 6661
14. 6672

8/23/08

GCL INSPECTION SHEET

DESCRIPTION	TECHNICALLY ADEQUATE Y	N	COMMENTS
GCL Materials			
Correct type and orientation of GCL on floor and sidewalls	✓		
GCL Roll inspection	✓		
Log of Roll #'s	14 ✓		see Inspection List
Storage Area	✓		
GCL Installation			
Dates GCL and cover was installed	8/23		
GCL Panel Layout	✓		
Sub grade rolled with smooth drum roller and maintained in suitable condition	✓		
Seam lapping in accordance with SLQCP; bentonite added as required by SLQCP	✓		
GCL panels placed by unrolling	✓		
Anchor trenches properly prepared and backfilled OK	N/A		
GCL properly tied into adjacent lined areas	✓		
Conformance test performed	✓		
Damage / Folds		✓	

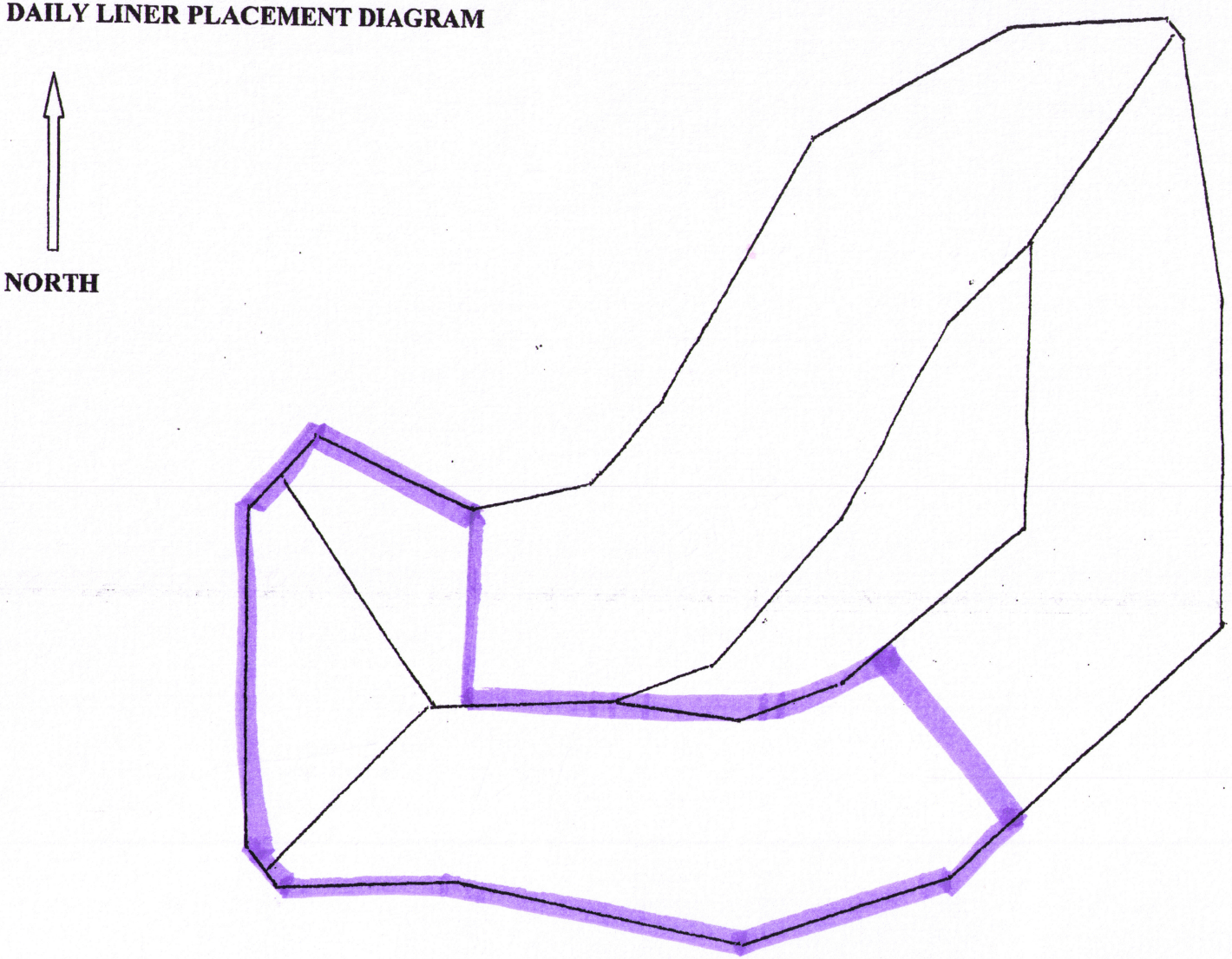
ASARCO EL PASO

POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 8/23/08

LINER MATERIAL: GCL



8/24/08

GCL INSPECTION SHEET

DESCRIPTION	TECHNICALLY ADEQUATE Y	N	COMMENTS
GCL Materials			
Correct type and orientation of GCL on floor and sidewalls	✓		
GCL Roll inspection	✓		
Log of Roll #'s	✓		see Inspection List
Storage Area	✓		
GCL Installation			
Dates GCL and cover was installed	8/24		
GCL Panel Layout	✓		
Sub grade rolled with smooth drum roller and maintained in suitable condition	✓		
Seam lapping in accordance with SLQCP; bentonite added as required by SLQCP	✓		
GCL panels placed by unrolling	✓		
Anchor trenches properly prepared and backfilled OK	N/A		
GCL properly tied into adjacent lined areas	✓		
Conformance test performed	✓		
Damage / Folds	N/A	✓	

GCL , 40 MIL HDPE AND GEOCOMPOSITE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT
environmental services in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: GCL

DATE INSTALLED: 8/24/08

WEATHER:
TEMP RANGE: 68° - 86°
WIND / SPEED / DIR: ESE - 5 - 15MPH
RAIN: 0"

GCL ROLLS PLACED

1	6660
2	6671
3	6673
4	6674
5	6649
6	6645
7	6647

SIGNED: Kirk Gates
(Signature and Date)

KIRK GATES
(Printed Name)

GCL , 40 MIL HDPE AND GEOCOMPOSITE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT

environmental services in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: 40 MIL

DATE INSTALLED: 8/24/08

WEATHER:

TEMP RANGE: 68° - 86°

WIND / SPEED / DIR: ESE 5-15 MPH

RAIN: 0"

40 MIL	ROLLS PLACED
1	1680
2	1683
3	1681

SIGNED: Kirk Gates

(Signature and Date)

KIRK GATES

(Printed Name)

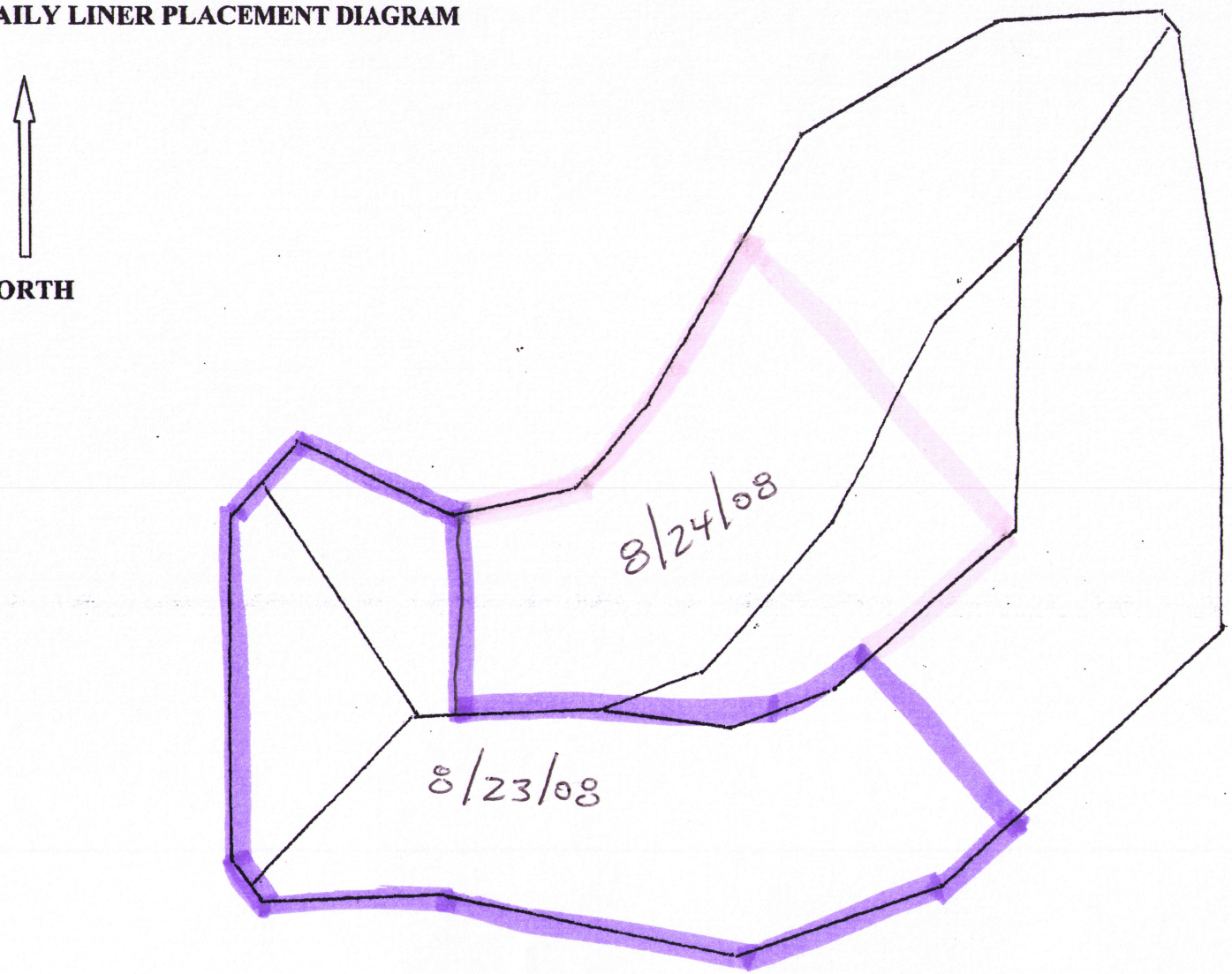
ASARCO EL PASO

DATE: 8/24/08

POND 6 REPOSITORY

LINER MATERIAL: GCL

DAILY LINER PLACEMENT DIAGRAM



ASARCO EL PASO

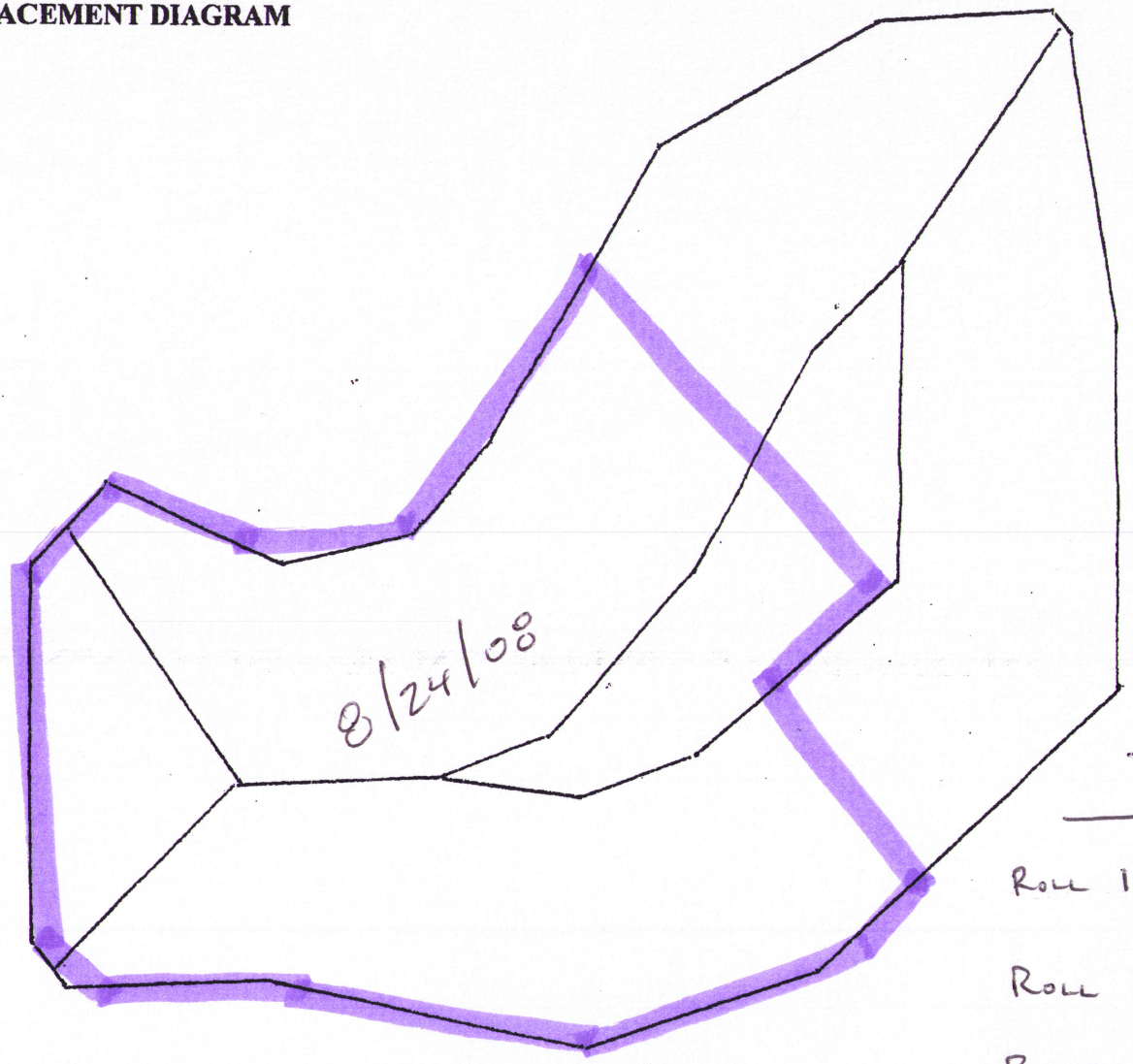
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 8/24/08

LINER MATERIAL: 40 MIL

NORTH



PANELS

	PANELS
ROLL 1680	1 → 14
ROLL 1683	15 → 23
ROLL 1681	24 → 31

GCL , 40 MIL HDPE AND GEOCOMPOSITE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT
environmental facilities in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: GCL

DATE INSTALLED: 8/25/08

WEATHER:
TEMP RANGE: 70° - 90°
WIND / SPEED / DIR: S - SE 5 - 15 MPH
RAIN: 0"

SIGNED: Kirk Gates
(Signature and Date)

KIRK GATES
(Printed Name)

GCL ROLLS PLACED

1 6665
2 6662
3 6657
4 6678
5 6668
6 6651
7 6664
8 6675
9 6655
10 1668 - FIRST SHIPMENT
11 1653 - " "
12 1689 - " "
13 1684 - " "

GCL INSPECTION SHEET

8/25/08

DESCRIPTION	TECHNICALLY ADEQUATE Y	N	COMMENTS
GCL Materials			
Correct type and orientation of GCL on floor and sidewalls	✓		
GCL Roll inspection	✓		
Log of Roll #'s	13		see Inspection List
Storage Area	✓		
GCL Installation			
Dates GCL and cover was installed	8/25		
GCL Panel Layout	✓		
Sub grade rolled with smooth drum roller and maintained in suitable condition	✓		
Seam lapping in accordance with SLQCP; bentonite added as required by SLQCP	✓		
GCL panels placed by unrolling	✓		
Anchor trenches properly prepared and backfilled OK	N/A		
GCL properly tied into adjacent lined areas	✓		
Conformance test performed	✓		
Damage / Folds		✓	

GCL , 40 MIL HDPE AND GEOCOMPOSITE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT

environmental tactics in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: 40 MIL LLDPE

DATE INSTALLED: 8/25/08

WEATHER:

TEMP RANGE: 70° - 90°

WIND / SPEED / DIR: S-SE 5-15 MPH

RAIN: 0"

40 MIL ROLLS PLACED	
1	1685
2	1682
3	1684 (PARTIAL - 2 PANELS)

SIGNED: Kirk Gates

(Signature and Date)

KIRK GATES

(Printed Name)

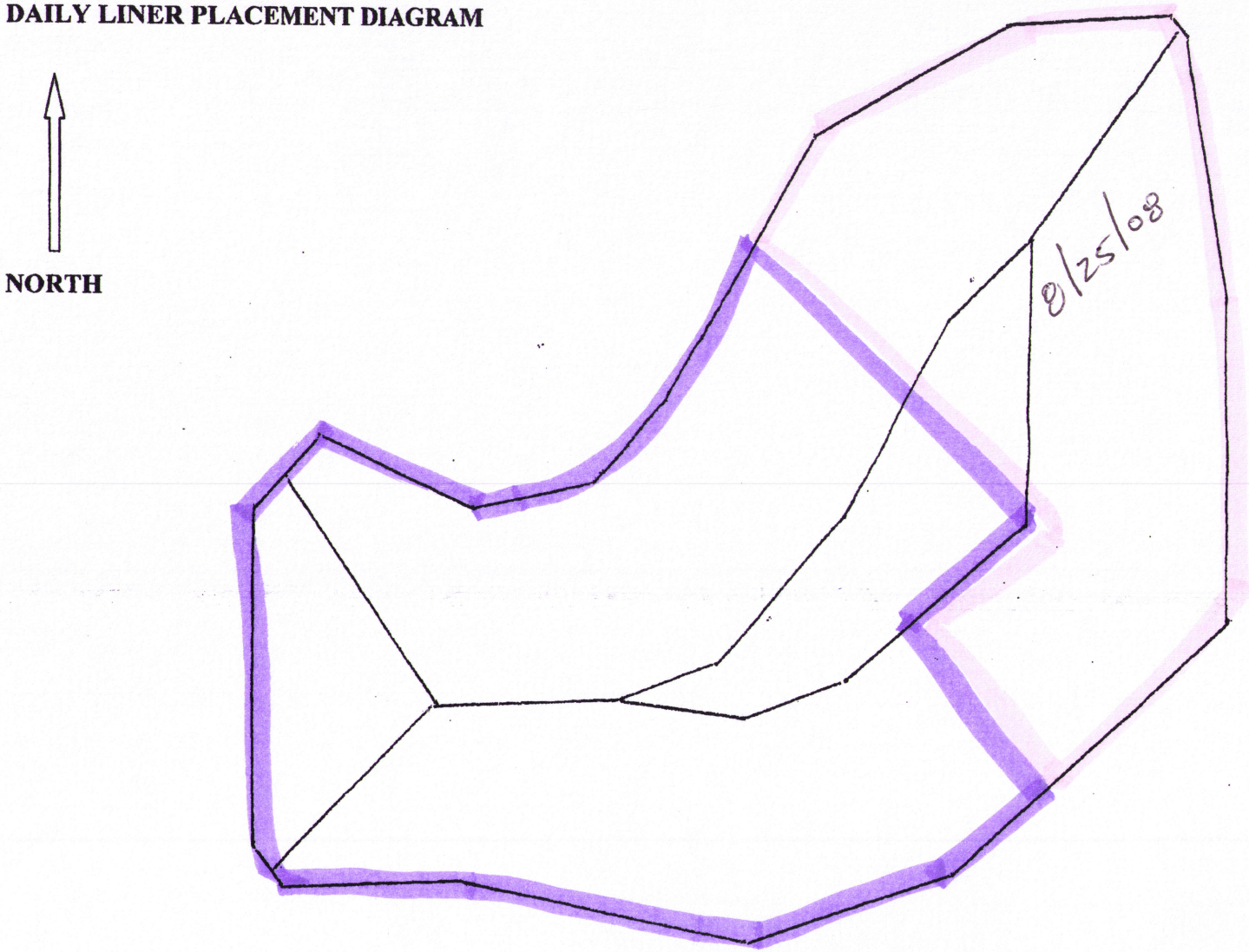
ASARCO EL PASO

POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 8/25/08

LINER MATERIAL: GCL



ASARCO EL PASO

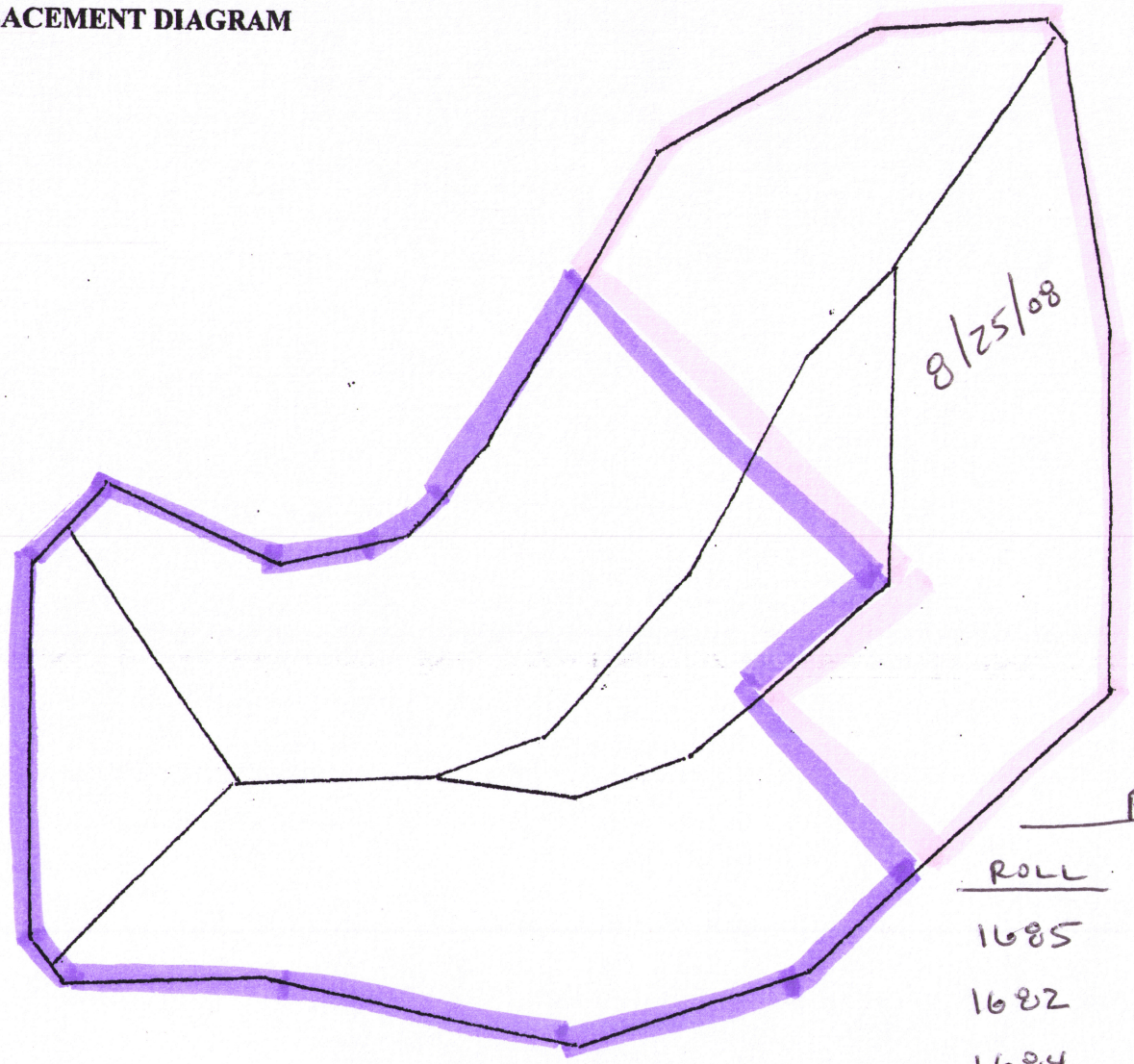
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 8/25/08

LINER MATERIAL: 40 MIL

NORTH



PANELS

ROLL	PANELS
1685	32 → 40
1682	41 → 49
1684	50 → 52

GCL , 40 MIL HDPE AND GEOCOMPOSITE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT
environmental facilities in waste management

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: DS. GEOCOMPOSITE

DATE INSTALLED: 8/26/08

WEATHER:
TEMP RANGE: 68° - 88°
WIND / SPEED / DIR: S-SE 5-10 mph
RAIN: 0"

SIGNED: Kirk Gates
(Signature and Date)

KIRK GATES
(Printed Name)

DS GEOCOMPOSITE ROLLS PLACED (17)

Roll #	Roll #
20001	20016
20002	20017
20003	20018
20004	20020
20005	20024
20006	20025
20007	
20008	
20010	
20011	
20013	

ASARCO EL PASO

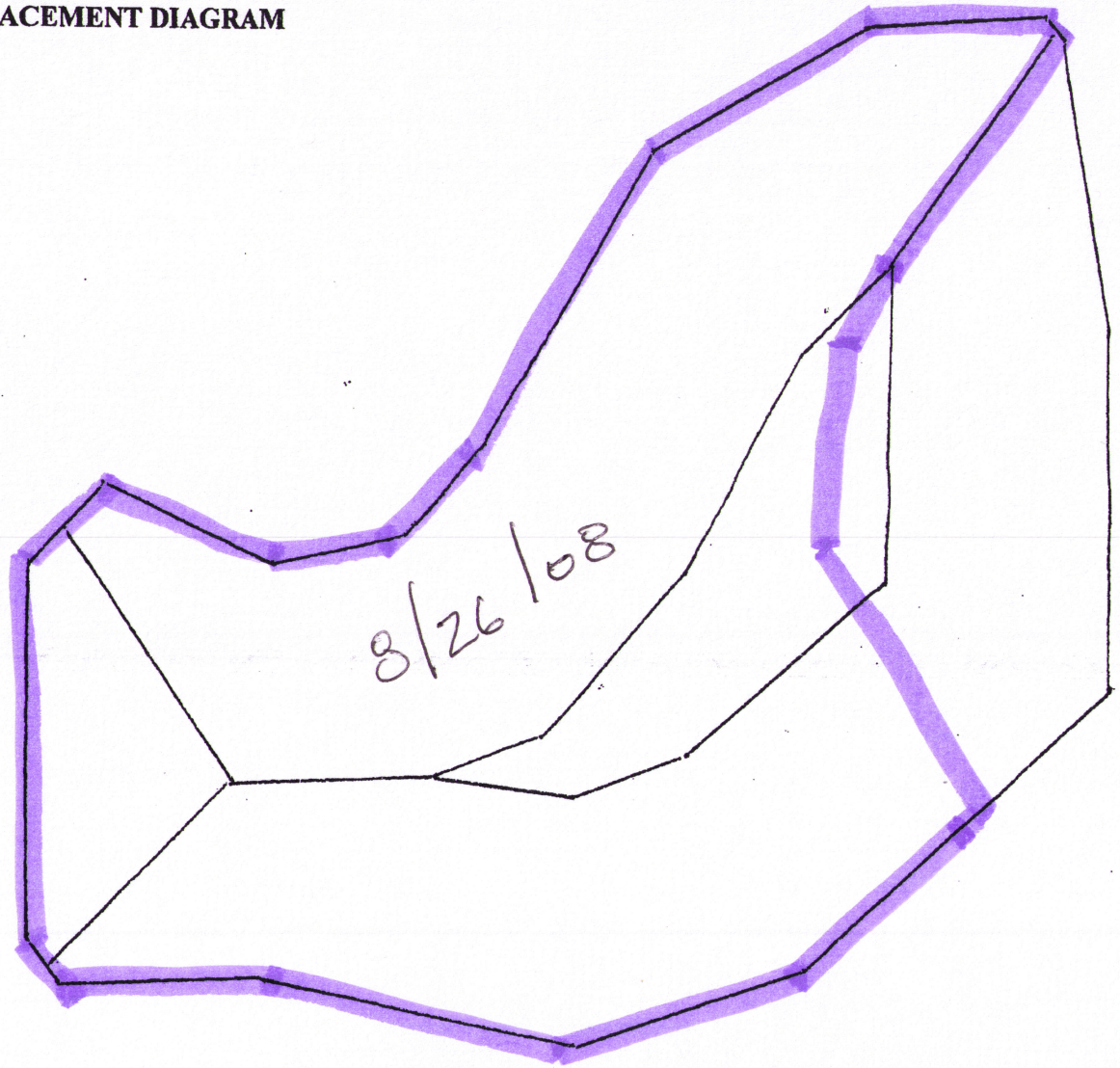
POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 8/26/08

LINER MATERIAL: DS GEOCOMP

NORTH



GCL , 40 MIL HDPE AND GEOCOMPOSITE DAILY INSTALLATION INSPECTION CHECKLIST

ENTACT

FACILITY NAME: Asarco Facility

LOCATION: El Paso, TX

INSTALLER: ESI, Inc.

MATERIAL INSTLALLED: DS. GEO COMPOSITE

DATE INSTALLED: 8/27/08

WEATHER:
TEMP RANGE: 66° - 85°
WIND / SPEED / DIR: S-SE 5-10 MPH
RAIN: 0" - 0.30" OVERNIGHT

SIGNED: Kirk Gates
(Signature and Date)

KIRK GATES
(Printed Name)

DS GEOCOMPOSITE ROLLS PLACED

ROLL #
20009
20012
20014
20019
20022

(5)

REMAINING ROLLS

20015
20021
20023

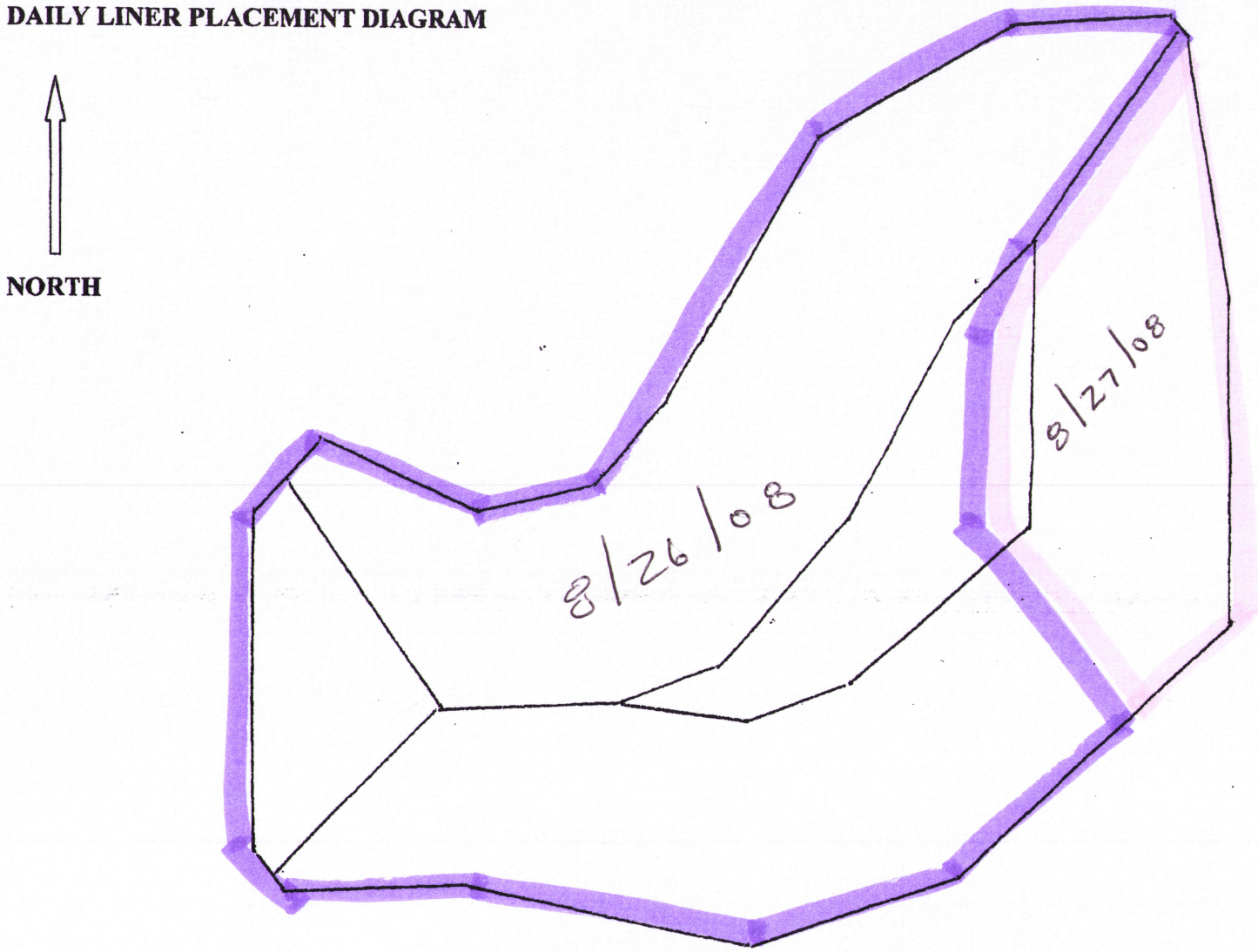
ASARCO EL PASO

POND 6 REPOSITORY

DAILY LINER PLACEMENT DIAGRAM

DATE: 8/27/08

LINER MATERIAL: DS GEOCOMP



ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

SUBGRADE ACCEPTANCE

PROJECT NAME: ASARCO El Paso Pond 6 Repository / ENTACT Services

PROJECT NUMBER: 08.02.1019

OWNER: ASARCO

LOCATION: El Paso, TX

I, undersigned, a duly appointed representative of Environmental Specialties International, Inc., have visually observed the soil subgrade surface described below, and found it to be an acceptable surface on which to install geomembrane.

The certification is based on observations of the subgrade only. No subterranean inspections or tests have been performed by Environmental Specialties International, Inc. and ESI makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Environmental Specialties International, Inc. accepts no responsibility for conformance of the subgrade to this project's specifications.

Area Being Accepted :
Subgrade under liner system @ NW end

Date: 8-23-08

Signature: Ron Powell

Name: Ron Powell

Title: Site Supv.

OWNERS REPRESENTATIVE:

Date: 8-23-08

Signature:

Name: Kirk Gates

Title: Project Mgr.

Company: ENTACT Services, LLC

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

SUBGRADE ACCEPTANCE

PROJECT NAME: ASARCO El Paso Pond 6 Repository / ENTACT Services

PROJECT NUMBER: 08.02.1019

OWNER: ASARCO

LOCATION: El Paso, TX

I, undersigned, a duly appointed representative of Environmental Specialties International, Inc., have visually observed the soil subgrade surface described below, and found it to be an acceptable surface on which to install geomembrane.

The certification is based on observations of the subgrade only. No subterranean inspections or tests have been performed by Environmental Specialties International, Inc. and ESI makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Environmental Specialties International, Inc. accepts no responsibility for conformance of the subgrade to this project's specifications.

Area Being Accepted :
Subgrade under liner system @ West & East Sides (Liner panels # 1 Thru # 31)

Date: 8-24-08

Signature: Ron Powell

Name: Ron Powell

Title: Site Supv.

OWNERS REPRESENTATIVE:

Date: 8-24-08

Signature:

Name: Kirk Gates

Title: Project Mgr.

Company: ENTACT Services, LLC

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

SUBGRADE ACCEPTANCE

PROJECT NAME: ASARCO El Paso Pond 6 Repository / ENTACT Services

PROJECT NUMBER: 08.02.1019

OWNER: ASARCO

LOCATION: El Paso, TX

I, undersigned, a duly appointed representative of Environmental Specialties International, Inc., have visually observed the soil subgrade surface described below, and found it to be an acceptable surface on which to install geomembrane.

The certification is based on observations of the subgrade only. No subterranean inspections or tests have been performed by Environmental Specialties International, Inc. and ESI makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Environmental Specialties International, Inc. accepts no responsibility for conformance of the subgrade to this project's specifications.

Area Being Accepted :
Subgrade under liner system @ Remainder of West slope & South end
(Liner panels # 32 Thru # 52)

Date: 8-25-08

Signature: Ron Powell

Name: Ron Powell

Title: Site Supv.

OWNERS REPRESENTATIVE:

Date: 8-25-08

Signature:

Name: Kirk Gates

Title: Project Mgr.

Company: ENTACT Services, LLC

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

ACCEPTANCE FOR WORK COMPLETED

PROJECT: ASARCO Pond 6 Repository
LOCATION: El Paso, TX
DATE 8/27/2008
Project # 08.02.1019

Billing Information
Owner
Representative: ENTACT Services, LLC

Owner: ASARCO

Billing Address:

The undersigned, as owner or authorized agent for owner, states that he has inspected the below listed project and found it completed in accordance with engineering design specifications.

Material Type :40 Mil DSTX Liner Total Sq. Ft.: 71,729
Material Type GCL BentoMat DN Total Sq. Ft.: 71,729
Material Type: GeoComposite Drainage Layer Total Sq. Ft.: 71,729
Material Type: _____ Total Sq. Ft.: _____
Material Type: _____ Total Sq. Ft.: _____
Material Type: _____ Total Sq. Ft.: _____
Material Type: _____ Total Sq. Ft.: _____
Material Type: _____ Total Sq. Ft.: _____
Material Type: _____ Total Sq. Ft.: _____
Material Type: _____ Total Sq. Ft.: _____
Rain Flap SF: _____ Textured/Smooth Weld: _____
Rain Flap Weld: _____ Tie-In Weld: _____
Boots: _____

COMMENTS:

_____

_____

ESI Representative — Owner/Contractor — QA/QC

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

DESTRUCTIVE TEST LOG

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 1 of 1

Date	Sample ID	Seam #	Machine #	Seamer Initials		Peel Values lbs/inch Specified Value 48					Shear Values lbs/inch Specified Value 56					Pass/Fail	Lab Pass/Fail	Comments
24-Aug	1	17/18	840	AP	inner	93	91	103	102	103	118	114	117	115	116	P		
					outer	98	98	85	82	87								
24-Aug	2	18/19	841	VS	inner	95	95	95	94	92	116	117	118	115	118	P		
					outer	92	92	96	91	98								
24-Aug	3	30/31	840	AP	inner	90	86	85	80	80	94	92	97	98	96	P		
					outer	83	78	82	75	78								
25-Aug	4	33/34	841	VS	inner	100	98	89	101	97	108	108	113	111	108	P		
					outer	97	94	98	95	96								
25-Aug	5	31/45	841	VS	inner	102	97	96	94	99	103	101	105	102	109	P		
					outer	97	95	102	95	98								
25-Aug	6	45/46	840	AP	inner	94	93	95	96	99	104	102	110	103	111	P		
					outer	98	97	91	92	96								
					inner													
					outer													
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ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 1 of 4

			Air Testing						
			Pressure		Time				
Date	Seam #	Tester ID	Start	End	Start	End	Complete Y/N	V Box Complete Y/N	Location/Comments
24-Aug	1/2	BM	30	30	10:32AM	10:37AM	Y	Y	
24-Aug	2/3	BM	30	30	10:30AM	10:35AM	Y	B	
24-Aug	3/4	BM	30	30	10:12AM	10:17AM	Y	Y	
24-Aug	4/5	BM	30	30	10:24AM	10:29AM	Y	Y	
24-Aug	5/6	BM	30	28	10:21AM	10:26AM	Y	Y	
24-Aug	7/8	BM	30	29	10:16AM	10:21AM	Y	Y	
24-Aug	8/9	BM	30	30	10:06AM	10:11AM	Y	Y	
24-Aug	9/10	BM	30	30	10:09AM	10:14AM	Y	Y	
24-Aug	11/12	BM	30	30	9:48AM	9:53AM	Y	Y	
24-Aug	12/13	BM	30	30	11:26AM	11:31AM	Y	Y	
24-Aug	13/14	BM	30	28	10:36AM	10:41AM	Y	Y	
24-Aug	1/4	BM	30	28	10:34AM	10:39AM	Y	Y	
24-Aug	6/7	BM	30	30	11:10AM	11:15AM	Y	Y	
24-Aug	3/11	BM	30	30	10:45AM	10:50AM	Y	Y	
24-Aug	3/12	BM	30	28	10:50AM	10:55AM	Y	Y	
24-Aug	12/CAP	BM	30	30	11:00AM	11:05AM	Y	Y	
24-Aug	2/CAP	BM	30	30	10:53AM	10:58AM	Y	Y	
24-Aug	13/CAP	BM	30	30	10:55AM	11:00AM	Y	Y	
24-Aug	1/13	BM	30	30	10:56AM	11:01AM	Y	Y	
24-Aug	6/8	BM	30	30	11:08AM	11:13AM	Y	Y	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 2 of 4

			Air Testing						
			Pressure		Time				
Date	Seam #	Tester ID	Start	End	Start	End	Complete Y/N	V Box Complete Y/N	Location/Comments
24-Aug	5/8	BM	30	30	11:19AM	11:24AM	Y	Y	
24-Aug	5/9	BM	30	30	11:18AM	11:23AM	Y	Y	
24-Aug	4/9	BM	30	30	11:20AM	11:25AM	Y	Y	
24-Aug	10/15	BM	30	30	3:54PM	3:59PM	Y	Y	
24-Aug	15/16	BM	30	29	3:06PM	3:11PM	Y	Y	
24-Aug	16/17	BM	30	30	3:05PM	3:10PM	Y	Y	
24-Aug	17/18	BM	30	30	3:45PM	3:50PM	Y	Y	
24-Aug	18/19	BM	30	30	3:41PM	3:46PM	Y	Y	
25-Aug	19/20	BM	30	30	7:54AM	7:59AM	Y	Y	
25-Aug	19/21	BM	30	30	7:52AM	7:57AM	Y	Y	
25-Aug	19/22	BM	30	30	7:51AM	7:56AM	Y	Y	
24-Aug	20/21	BM	30	30	3:37PM	3:42PM	Y	Y	
24-Aug	21/22	BM	30	30	3:38PM	3:43PM	Y	Y	
25-Aug	22/23	BM	30	30	7:59AM	8:04AM	Y	Y	
24-Aug	11/24	BM	30	30	5:09PM	5:14PM	Y	Y	
24-Aug	24/25	BM	30	30	5:10PM	5:15PM	Y	Y	
24-Aug	25/26	BM	30	30	5:11PM	5:16PM	Y	Y	
25-Aug	26/27	BM	30	30	7:24AM	7:29AM	Y	Y	
25-Aug	27/28	BM	30	30	7:52AM	7:57AM	Y	Y	
25-Aug	26/28	BM	30	30	7:34AM	7:39AM	Y	Y	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 3 of 4

			Air Testing						
			Pressure		Time				
Date	Seam #	Tester ID	Start	End	Start	End	Complete Y/N	V Box Complete Y/N	Location/Comments
25-Aug	25/28	BM	30	30	7:33AM	7:38AM	Y	Y	
25-Jul	28/29	BM	30	30	7:26AM	7:31AM	Y	Y	
25-Jul	29/30	BM	30	30	7:43AM	7:48AM	Y	Y	
25-Jul	30/31	BM	30	30	7:45AM	7:50AM	Y	Y	
25-Jul	29/31	BM	30	30	7:38AM	7:43AM	Y	Y	
25-Jul	23/32	BM	30	30	3:53PM	3:58PM	Y	Y	
25-Jul	32/33	BM	30	30	3:54PM	3:59PM	Y	Y	
25-Jul	33/34	BM	30	30	3:55PM	4:00PM	Y	Y	
25-Jul	34/35	BM	30	30	4:10PM	4:15PM	Y	Y	
25-Jul	35/36	BM	30	30	4:14PM	4:19PM	Y	Y	
25-Jul	36/37	BM	30	30	4:20PM	4:25PM	Y	Y	
25-Jul	34/37	BM	30	30	4:08PM	4:13PM	Y	Y	
26-Aug	37/38	BM	30	30	7:48AM	7:53AM	Y	Y	
26-Aug	38/39	BM	30	30	7:50AM	7:55AM	Y	Y	
26-Aug	39/40	BM	30	30	7:52AM	7:57AM	Y	Y	
26-Aug	40/41	BM	30	30	7:53AM	7:58AM	Y	Y	
26-Aug	41/42	BM	30	30	9:24AM	9:29AM	Y	Y	
26-Aug	42/43	BM	30	30	9:33AM	9:38AM	Y	Y	
26-Aug	43/44	BM	30	30	9:40AM	9:45AM	Y	Y	
26-Aug	31/45	BM	30	30	9:05AM	9:10AM	Y	Y	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

NON-DESTRUCTIVE TESTING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 4 of 4

			Air Testing						
			Pressure		Time				
Date	Seam #	Tester ID	Start	End	Start	End	Complete Y/N	V Box Complete Y/N	Location/Comments
26-Aug	45/46	BM	30	30	9:06AM	9:11AM	Y	Y	
26-Aug	47/48	BM	30	30	9:20AM	9:25AM	Y	Y	
26-Aug	48/49	BM	30	30	9:30AM	9:35AM	Y	Y	
26-Aug	49/50	BM	30	30	9:31AM	9:36AM	Y	Y	
26-Aug	50/51	BM	30	30	9:36AM	9:41AM	Y	Y	
26-Aug	51/52	BM	30	30	9:42AM	9:47AM	Y	Y	
26-Aug	41/48	BM	30	30	9:21AM	9:26AM	Y	Y	
26-Aug	42/49	BM	30	30	9:26AM	9:31AM	Y	Y	
26-Aug	43/50	BM	30	30	9:34AM	9:39AM	Y	Y	
26-Aug	43/51	BM	30	30	9:38AM	9:43AM	Y	Y	
26-Aug	44/51	BM	30	30	9:41AM	9:46AM	Y	Y	
26-Aug	44/52	BM	30	30	9:44AM	9:49AM	Y	Y	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL PLACEMENT FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 1 of 3

Date	Panel #	Roll #	Panel Length	Panel Width	Comments/Panel Location
24-Aug	1	1680	20	22.5	
24-Aug	2	1680	37	22.5	
24-Aug	3	1680	61	22.5	
24-Aug	4	1680	63	22.5	
24-Aug	5	1680	42	22.5	
24-Aug	6	1680	20	22.5	
24-Aug	7	1680	10	22.5	
24-Aug	8	1680	30	22.5	
24-Aug	9	1680	54	22.5	
24-Aug	10	1680	79	22.5	
24-Aug	11	1680	67	22.5	
24-Aug	12	1680	48	22.5	
24-Aug	13	1680	33	22.5	
24-Aug	14	1680	10	22.5	
24-Aug	15	1683	76	22.5	
24-Aug	16	1683	79	22.5	
24-Aug	17	1683	80	22.5	
24-Aug	18	1683	90	22.5	
24-Aug	19	1683	92	22.5	
24-Aug	20	1683	10	22.5	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL PLACEMENT FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 2 of 3

Date	Panel #	Roll #	Panel Length	Panel Width	Comments/Panel Location
24-Aug	21	1683	42	22.5	
24-Aug	22	1683	80	22.5	
24-Aug	23	1683	87	22.5	
24-Aug	24	1681	67	22.5	
24-Aug	25	1681	73	22.5	
24-Aug	26	1681	59	22.5	
24-Aug	27	1681	22	22.5	
24-Aug	28	1681	102	22.5	
24-Aug	29	1681	114	22.5	
24-Aug	30	1681	50	22.5	
24-Aug	31	1681	118	22.5	
25-Aug	32	1685	90	22.5	
25-Aug	33	1685	90	22.5	
25-Aug	34	1685	72	22.5	
25-Aug	35	1685	36	22.5	
25-Aug	36	1685	24	22.5	
25-Aug	37	1685	73	22.5	
25-Aug	38	1685	96	22.5	
25-Aug	39	1685	92	22.5	
25-Aug	40	1685	84	22.5	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL PLACEMENT FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 3 of 3

Date	Panel #	Roll #	Panel Length	Panel Width	Comments/Panel Location
25-Aug	41	1682	75	22.5	
25-Aug	42	1682	57	22.5	
25-Aug	43	1682	39	22.5	
25-Aug	44	1682	20	22.5	
25-Aug	45	1682	101	22.5	
25-Aug	46	1682	89	22.5	
25-Aug	47	1682	82	22.5	
25-Aug	48	1682	72	22.5	
25-Aug	49	1682	66	22.5	
25-Aug	50	1684	57	22.5	
25-Aug	51	1684	39	22.5	
25-Aug	52	1684	19	22.5	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 1 OF 5

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time		Comments
						Start	Stop	
24-Aug	1/2	841	W	29	VS	8:43AM	8:45AM	
24-Aug	2/3	841	W	47	VS	8:30AM	8:40AM	
24-Aug	3/4	840	W	71	AP	8:26AM	8:36AM	
24-Aug	4/5	840	W	54	AP	8:42AM	8:50AM	
24-Aug	5/6	840	W	32	AP	8:57AM	9:02AM	
24-Aug	7/8	841	W	17	VS	9:08AM	9:11AM	
24-Aug	8/9	840	W	43	AP	9:05AM	9:11AM	
24-Aug	9/10	840	W	69	AP	9:17AM	9:26AM	
24-Aug	11/12	840	W	58	AP	9:29AM	9:36AM	
24-Aug	12/13	841	W	38	VS	9:35AM	9:41AM	
24-Aug	13/14	841	W	13	VS	9:47AM	9:49AM	
24-Aug	1/4	841	W	10	VS	9:56AM	9:58AM	
24-Aug	6/7	840	W	13	AP	10:50AM	10:54AM	
24-Aug	3/11	841	W	15	VS	10:00AM	10:05AM	
24-Aug	3/12	841	W	15	VS	10:06AM	10:10AM	
24-Aug	12/CAP	841	W	18	VS	10:15AM	10:20AM	
24-Aug	2/CAP	841	W	29	VS	10:30AM	10:40AM	
24-Aug	13/CAP	841	W	14	VS	10:21AM	10:25AM	
24-Aug	1/13	841	W	19	VS	10:43AM	10:47AM	
24-Aug	6/7	840	W	4	AP	10:55AM	10:55AM	
24-Aug	6/8	840	W	22	AP	10:56AM	10:58AM	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 2 OF 5

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time		Comments
						Start	Stop	
24-Aug	5/8	840	W	12	AP	10:58AM	10:59AM	
24-Aug	5/9	840	W	16	AP	10:59AM	11:00AM	
24-Aug	4/9	840	W	18	AP	11:00AM	11:02AM	
24-Aug	10/15	840	W	71	AP	2:05PM	2:18PM	
24-Aug	15/16	841	W	77	VS	2:10PM	2:26PM	
24-Aug	16/17	841	W	80	VS	2:30PM	2:42PM	
24-Aug	17/18	840	W	87	AP	2:53PM	3:04PM	
24-Aug	18/19	841	W	89	VS	3:05PM	3:15PM	
24-Aug	19/20	840	W	24	AP	3:42PM	3:46PM	
24-Aug	19/21	840	W	37	AP	3:46PM	3:51PM	
24-Aug	19/22	840	W	27	AP	3:51PM	3:55PM	
24-Aug	20/21	840	W	23	AP	3:16PM	3:23PM	
24-Aug	21/22	841	W	61	VS	3:30PM	3:40PM	
24-Aug	22/23	841	W	86	VS	3:47PM	3:56PM	
24-Aug	11/24	841	W	66	VS	4:10PM	4:20PM	
24-Aug	24/25	840	W	73	AP	4:15PM	4:25PM	
24-Aug	25/26	841	W	77	VS	4:26PM	4:35PM	
24-Aug	26/27	840	W	36	AP	4:30PM	4:38PM	
24-Aug	27/28	840	W	40	AP	4:43PM	4:48PM	
24-Aug	26/28	840	W	40	AP	4:48PM	4:53PM	
24-Aug	25/26	840	W	7	AP	4:53PM	4:54PM	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 3 OF 5

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time		Comments
						Start	Stop	
24-Aug	28/29	841	W	109	VS	4:50PM	5:00PM	
24-Aug	29/30	840	W	84	AP	5:00PM	5:09PM	
24-Aug	30/31	840	W	80	AP	5:11PM	5:17PM	
24-Aug	29/31	840	W	26	AP	5:17PM	5:21PM	
25-Aug	23/32	840	W	86	AP	1:00PM	1:10PM	
25-Aug	32/33	841	W	88	VS	1:04PM	1:12PM	
25-Aug	33/34	841	W	84	VS	1:15PM	1:25PM	
25-Aug	34/35	840	W	52	AP	1:22PM	1:30PM	
25-Aug	35/36	841	W	41	VS	1:39PM	1:44PM	
25-Aug	36/37	841	W	39	VS	1:46PM	1:52PM	
25-Aug	34/37	840	W	34	AP	1:53PM	1:58PM	
25-Aug	35/37	840	W	12	AP	1:58PM	2:00PM	
25-Aug	37/38	841	W	81	VS	1:59PM	2:06PM	
25-Aug	38/39	840	W	94	AP	2:04PM	2:15PM	
25-Aug	39/40	841	W	89	VS	2:10PM	2:20PM	
25-Aug	40/41	841	W	81	VS	2:26PM	2:36PM	
25-Aug	41/42	840	W	65	AP	2:31PM	2:40PM	
25-Aug	42/43	841	W	46	VS	2:38PM	2:45PM	
25-Aug	43/44	840	W	29	AP	2:41PM	2:50PM	
25-Aug	31/45	841	W	112	VS	2:50PM	3:04PM	
25-Aug	45/46	840	W	93	AP	2:57PM	3:08PM	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 4 OF 5

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time		Comments
						Start	Stop	
25-Aug	46/47	841	W	86	VS	3:10PM	3:20PM	
25-Aug	47/48	840	W	76	AP	3:18PM	3:28PM	
25-Aug	48/49	841	W	69	VS	3:27PM	3:33PM	
25-Aug	49/50	841	W	63	VS	3:35PM	3:42PM	
25-Aug	50/51	840	W	49	AP	3:40PM	3:46PM	
25-Aug	51/52	841	W	30	VS	3:48PM	3:55PM	
25-Aug	41/48	840	W	22	AP	4:11PM	4:14PM	
25-Aug	42/49	840	W	22	AP	4:14PM	4:15PM	
25-Aug	42/50	840	W	3	AP	4:15PM	4:16PM	
25-Aug	43/50	840	W	19	AP	4:16PM	4:19PM	
25-Aug	43/51	840	W	8	AP	4:19PM	4:20PM	
25-Aug	44/51	840	W	14	AP	4:20PM	4:21PM	
25-Aug	44/52	840	W	20	AP	4:21PM	4:24PM	
26-Aug	10/11	840	W	11	AP	7:53AM	7:56AM	
26-Aug	10/24	840	W	6	AP	7:56AM	7:56AM	
26-Aug	15/24	840	W	15	AP	7:56AM	7:58AM	
26-Aug	15/25	840	W	6	AP	7:58AM	7:58AM	
26-Aug	16/25	840	W	15	AP	7:58AM	8:00AM	
26-Aug	16/26	840	W	6	AP	8:00AM	8:00AM	
26-Aug	17/26	840	W	16	AP	8:00AM	8:03AM	
26-Aug	17/27	840	W	6	AP	8:06AM	8:06AM	

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

PANEL SEAMING FORM

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 5 OF 5

Date	Seam #	Machine ID #	E-Extrusion W-Wedge	Seam Length	Seamer ID	Weld Time		Comments
						Start	Stop	
26-Aug	18/27	840	W	16	AP	8:06AM	8:10AM	
26-Aug	18/28	840	W	4	AP	8:11AM	8:11AM	
26-Aug	19/28	840	W	22	AP	8:11AM	8:15AM	
26-Aug	22/29	840	W	5	AP	8:22AM	8:22AM	
26-Aug	23/29	840	W	15	AP	8:23AM	8:25AM	
26-Aug	23/30	519	E	8	BN	10:10AM	10:20AM	
26-Aug	32/30	840	W	16	AP	8:26AM	8:29AM	
26-Aug	31/32	840	W	5	AP	8:31AM	8:31AM	
26-Aug	31/33	840	W	17	AP	8:31AM	8:34AM	
26-Aug	33/45	840	W	6	AP	8:34AM	8:34AM	
26-Aug	38/45	840	W	22	AP	8:39AM	8:42AM	
26-Aug	39/46	840	W	23	AP	8:42AM	8:45AM	
26-Aug	40/47	840	W	23	AP	8:45AM	8:48AM	
26-Aug	41/47	840	W	3	AP	8:48AM	8:48AM	

Demtech Services, Inc.

Placerville, California, USA

CALIBRATION CERTIFICATE

Customer Name: **Environmental Specialties Int'l**

Tensiometer Model: Pro-Tester T-0100

Device Calibrated: S-Type load cell

Range: 0 - 750 lbs. Tension

Model No: M2405-750#

Serial No: **209956**

Calibration Apparatus:

Reference load cell (S/N 204781)

A/D Module Model No: T-029

A/D Module Serial No: **3705209956**

Channel No: N/A

Dead Weight:		Reference Cell:	
W1	2	R1	2
W2	152	R2	152
W3	302	R3	302

Indicator reading with no load: 0

Offset: **4.896562** Scale: **3.982007**

Applied Force lbs.	Cell Response:	Deviation Error:
2	2	0.00
52	52	0.00
102	102	0.00
152	152	0.00
202	202	0.00
252	252	0.00
302	302	0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F

Exitation Voltage: 5 V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

Calibration Technician: Dean Cato

Date: 03/11/08

Demtech Services, Inc.

Placerville, California, USA

CALIBRATION CERTIFICATE

Customer Name: nvironmental Specialties Int'l., Inc.

Tensiometer Model: Pro-Tester T-0100

Device Calibrated: S-Type load cell

Range: 0 - 750 lbs. Tension

Model No: M2405-750#

Serial No: 209954

Calibration Apparatus:

Reference load cell (S/N 204781)

A/D Module Model No: T-029

A/D Module Serial No: 3705209954

Channel No: N/A

Dead Weight:	
W1	2
W2	152
W3	302

Reference Cell:	
R1	2
R2	152
R3	302

Indicator reading with no load: 0

Offset: 1.655582 Scale: 4.020645

Applied Force lbs.	Cell Response:	Deviation Error:
2	2	0.00
52	52	0.00
102	102	0.00
152	152	0.00
202	202	0.00
252	252	0.00
302	302	0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F

Exitation Voltage: 5 V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

Calibration Technician: Dean Cato Date: 03/11/08

Dean P Cato

ENVIRONMENTAL SPECIALTIES INTERNATIONAL, INC.

TRIAL WELD INFORMATION

PROJECT NAME: Asarco PROJECT NO. 08-02-1019 PAGE 1 of 1

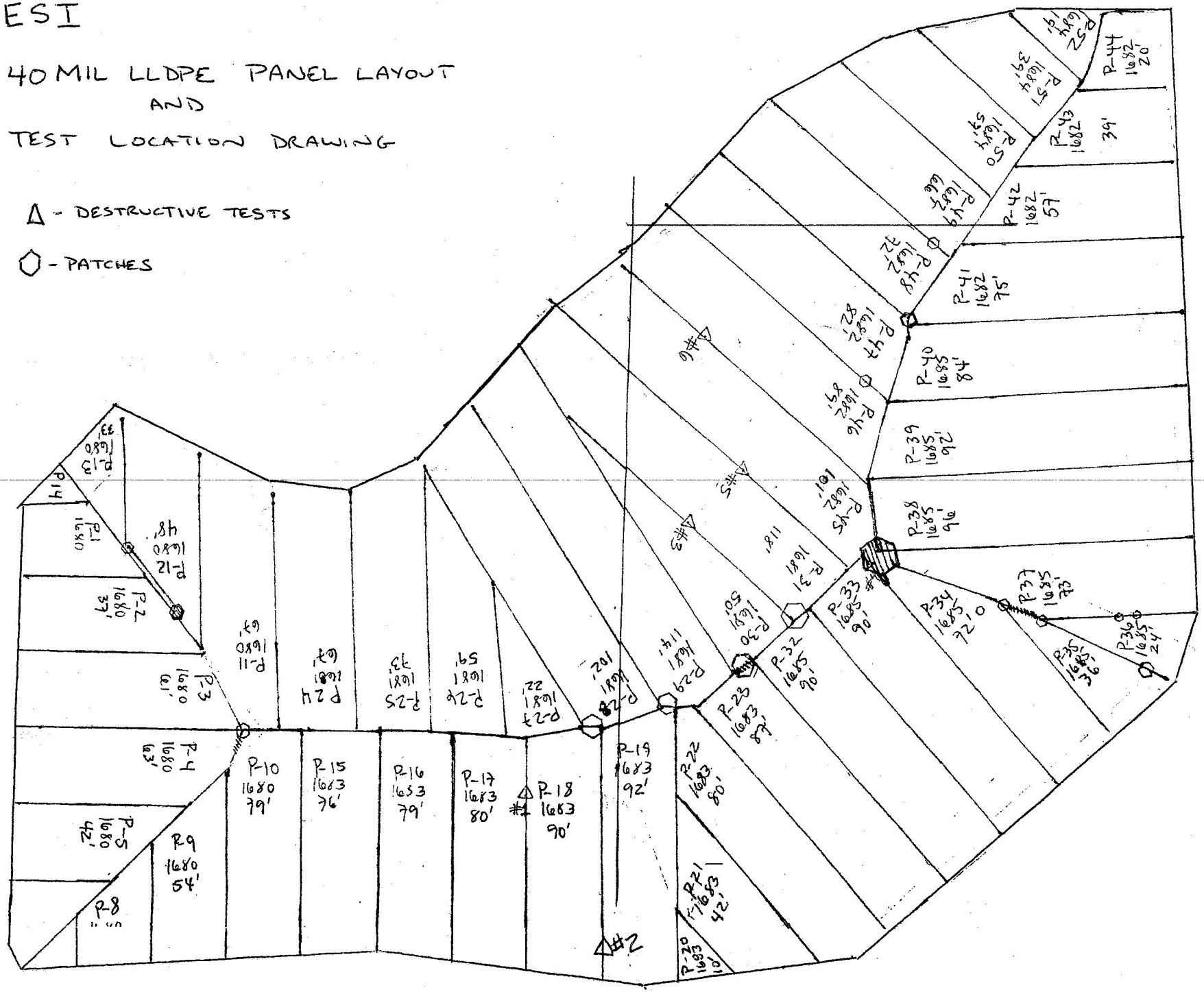
Date &Time	Ambient Temp	QC Initial	Machine #	Seamer Initials	Extrusion Welds: Barrel Set	Extrusion Welds: Preheat Set	Fusion Welds: Wedge Set	Fusion Welds: Speed Setting		Peel Values lbs/inch Specified Value 91 Fusion 78 Extrusion			Shear Values lbs/inch Specified Value 120		
23-Aug									inner						
1:00pm	90	YQ	519	BN	430	450			outer	95	98	101	141	136	139
24-Aug									inner	98	100	84			
8:05AM	72	YQ	840	AP			850	7.5	outer	90	76	92	110	117	120
24-Aug									inner	77	77	81			
8:06AM	72	YQ	840	AP			850	7	outer	82	78	78	94	89	91
24-Aug									inner	97	98	102			
8:10AM	72	YQ	841	VS			840	7	outer	86	84	84	105	109	109
24-Aug									inner	75	77	80			
8:11AM	72	YQ	841	VS			840	7	outer	86	77	84	83	87	85
24-Aug									inner	86	77	84			
12:30PM	82	YQ	840	AP			850	7	outer	81	80	80	106	97	101
24-Aug									inner	84	85	84			
12:31PM	82	YQ	840	AP			850	7	outer	86	84	86	85	83	93
24-Aug									inner	73	77	75			
1:14PM	82	YQ	841	VS			840	6	outer	81	76	76	84	76	83
24-Aug									inner	90	84	92			
1:15PM	82	YQ	841	VS			840	6	outer	94	90	88	100	100	103
25-Aug									inner						
7:40AM	71	YQ	519	BN	420	400			outer	73	75	65	91	83	92
25-Aug									inner	94	82	85			
12:50PM	89	YQ	840	AP			750	7.3	outer	95	93	93	107	102	103
25-Aug									inner	69	64	64			
12:51PM	89	YQ	840	AP			750	7.3	outer	73	70	71	76	71	75
25-Aug									inner	87	81	85			
12:45PM	89	YQ	841	VS			800	7	outer	90	86	91	95	98	99
25-Aug									inner	64	64	64			
12:50PM	89	YQ	841	VS			800	7	outer	62	57	61	67	63	69
26-Aug									inner	93	82	84			
7:30AM	80	YQ	840	AP			750	7.5	outer	88	85	84	110	110	112
26-Aug									inner	79	75	82			
7:32AM	80	YQ	840	AP			750	7.5	outer	78	74	76	89	87	89
26-Aug									inner						
7:55AM	80	YQ	519	BN	470	420			outer	92	82	87	97	92	95

ESI

40 MIL LLDPE PANEL LAYOUT
AND
TEST LOCATION DRAWING

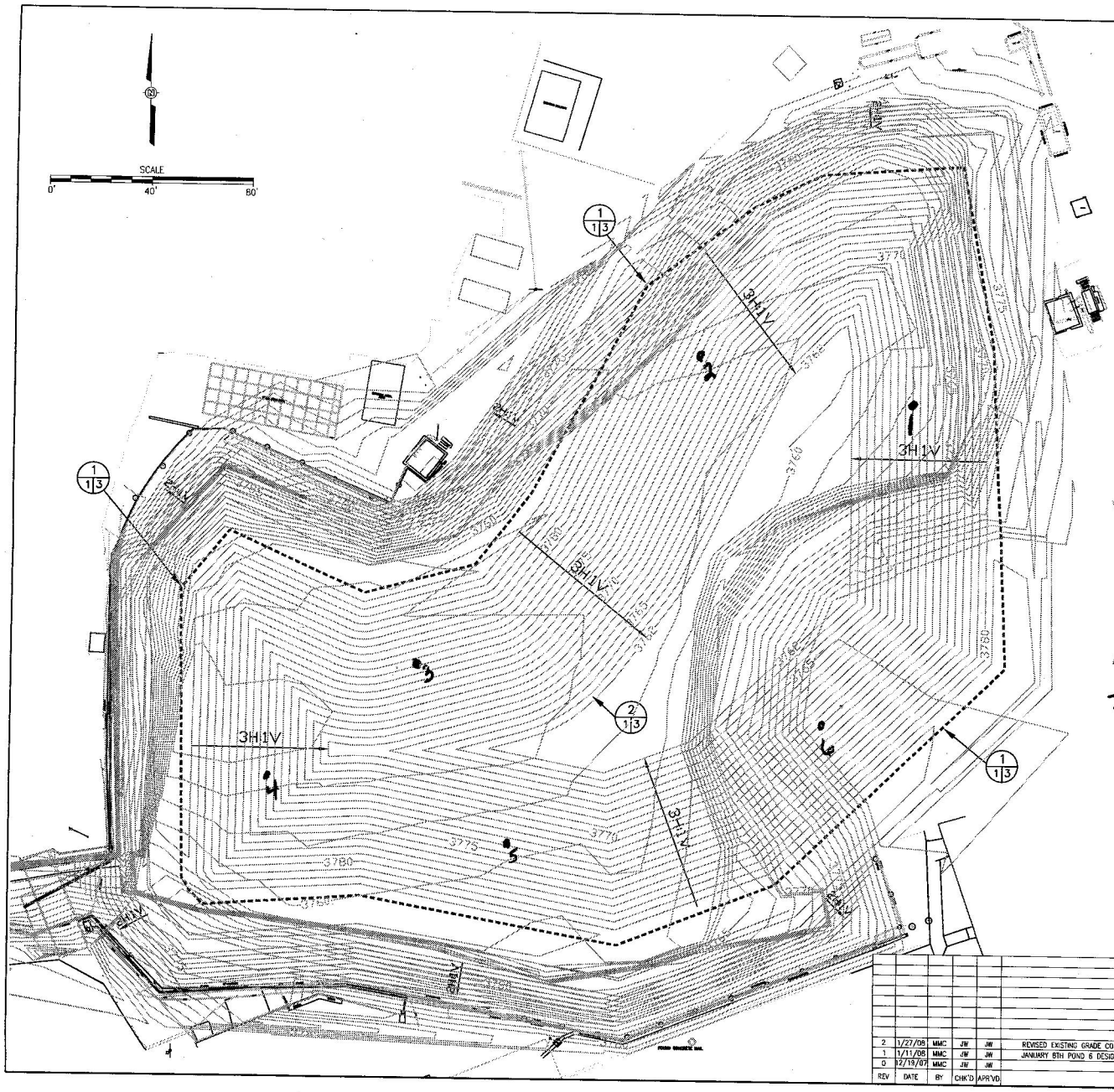
Δ - DESTRUCTIVE TESTS

⬡ - PATCHES



Appendix H Field Test Data and Material Certifications – Category I Excavation and Landfills

H.16 Raba Kistner 2008 Compaction Testing Reports, Landfill Cell 3



ENTACT SERVICES LLC ASARCO EL PASO POND 6 COMPACTION TESTS

DATE: 1/22/08

LIFT / DESCRIPTION:

#1 - 10' BSG - TOS

#2 - 10' BSG - TOS

#3 - 10' BSG - TOS

#4 - 10' BSG - TOS

#5 - 10' BSG - TOS

#6 - 10' BSG - TOS

TESTED BY RABA KISTNER

LEGEND:

EXISTING GRADE CONTOUR

PROPOSED SUBGRADE CONTOUR

BOTTOM LINER LIMIT (70,550 SQFT-NEAT)

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
PRELIMINARY POND EXCAVATION VOLUME (ASSUMES 6" CUT FOR POND SIDE SLOPES & 1' CUT ACROSS POND BOTTOM)	2,530	0	2,530
TOTAL VOLUME REQUIRED TO ACHIEVE PROPOSED SUBGRADE ELEVATIONS ONCE PRELIMINARY POND EXCAVATION IS COMPLETE	3,977	39,332	35,355
INITIAL 2 FT PRO COVER LAYER	0	4,663	4,663

BSG - Below Subgrade

TOS - Top of Slope

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
2	1/27/08	MMC	JW	JW	REVISED EXISTING GRADE CONTOURS UTILIZED FOR SUBGRADE DESIGN VOLUMES
1	1/11/08	MMC	JW	JW	JANUARY 8TH POND 6 DESIGN COMMENTS FROM ASARCO FACTORED INTO REV 1
0	12/19/07	MMC	JW	JW	ISSUED FOR REVIEW

ENTACT

699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 1

PROJECT NAME & LOCATION: POND 6 SUBGRADE GRADING VOLUME ANALYSIS
ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

DESIGNED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	1
DATE	12-19-07	DATE	12-19-07	SHEET NO.
PROJECT NO.	07024	DRAWING NO.	C-07024-001	1 OF 4

DAILY REPORT

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

DATE: 1-22-08

PROJECT: Asmco Pond 6

PROJECT NO.:

CLIENT: Entact

CONTRACTOR: Entact

TECHNICIAN: Charlie

Day	S	M	T	W	T	F	S

WEATHER	Sunny	Clear	Overcast	Rain	Snow
TEMP (°F)	To 32	32 50	50 70	70 85	85 up
WIND	Still	Moderate	High	Relates to Lab.	
HUMIDITY	Low	Moderate	High	No.:	

Conduct 6 blind densities using a 125.0 @ 9.0 proctor.
Test recorded 91.2 @ 9.5 at Location #1, 95.3 @ 9.1 at Location #2, 92.3 @ 12.8 at Location #3, 92.2 @ 9.6 at Location # 4, 91.0 @ 9.9 at Location #5, 96.5 @ 10.1 at Location #6.
Pick up 2 soil samples for Proctor test and soil classification
All densities were 18" Below S.G. at outer ring around Pond 6

This field memo contains information related to the referenced project and should be considered preliminary. Test results or data are subject to review prior to inclusion in our project report(s). Engineering evaluations or opinion regarding suitability of subject work or materials should not be constituted from this information. Any questions should be directed to R-K for clarification.

Arrived Site:	10:30
Tech Time:	
Stand by Time:	
Departed Site:	11:00
Travel Time:	—

Received By
GARY MARKUM

Title

Date

03/16/04 bej; P\CMT\Technicians forms\Daily Report

NOTICE: Raba-Kistner Consultants, Inc. considers the data and information contained in this report to be proprietary. This information is intended only for the use of the recipient(s) named herein. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part for any purpose other than to validate test results without written approval from Raba-Kistner Consultants, Inc.

Raba Kistner SINCE 1968

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 01/22/2008
ASSIGNMENT NO.: E08-010455
REPORT VERSION: A
SHEET NUMBER: 1 of 1
TECHNICIAN: CHARLES POWERS

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
1	Pond #6, outer ring, area #1	3	(1)	9.5	114.1	96.0	Yes
2	Pond #6, outer ring, area #2	3	(1)	9.1	119.1	100.0	Yes
3	Pond #6, outer ring, area #3	3	(1)	12.8	115.4	97.0	Yes
4	Pond #6, outer ring, area #4	3	(1)	9.6	115.3	97.0	Yes
5	Pond #6, outer ring, area #5	3	(1)	9.9	113.7	95.0	Yes
6	Pond #6, outer ring, area #6	3	(1)	10.1	120.6	101.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-13.4	90	ASTM D 1557

REFERENCE: Prepared Subgrade
FIELD TEST PROCEDURE: ASTM D 2922 & D 3017
GAUGE NUMBER: 1
REMARKS: (1) 10' Below Subgrade
PERSON NOTIFIED: Mr. Gary Markum of Entact, LLC
CONTRACTOR: N/A

*** - Indicates noncompliance with specifications.**

NOTICE: Raba-Kistner Consultants, Inc. considers the data and information contained in this report to be proprietary. This information is intended only for the use of the recipient(s) named herein. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part, for any purpose other than to validate test results without written approval from Raba-Kistner Consultants, Inc.

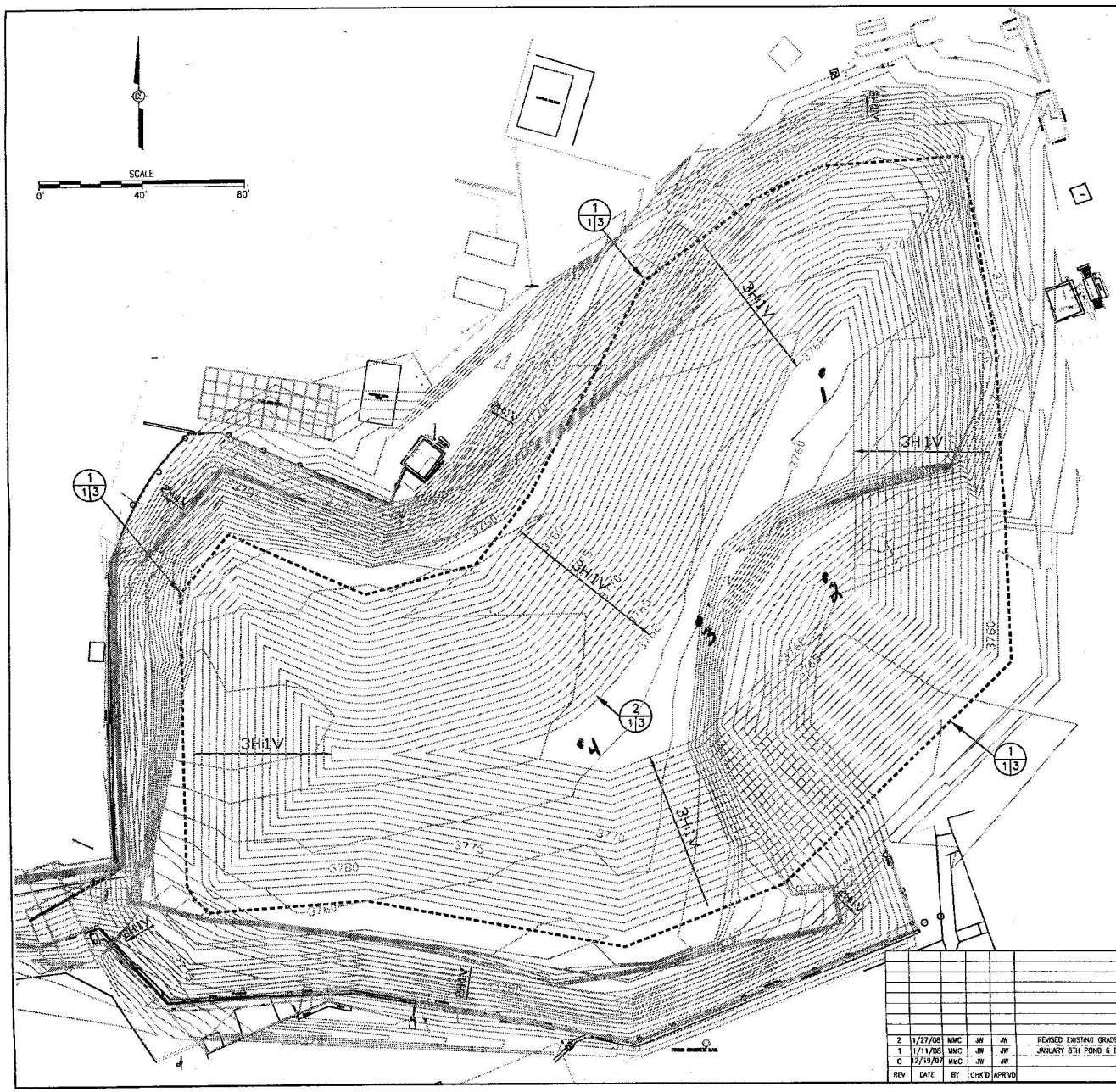
COPIES TO: Above (1)

RABA-KISTNER CONSULTANTS, INC.

STATE OF TEXAS
BERNARDINO OLAGUE
81628
LICENSED
PROFESSIONAL ENGINEER

BY: _____

Updated By: BJ 2/26/08 8:49 am



ENTACT SERVICES LLC ASARCO EL PASO POND 6 COMPACTION TESTS

DATE: 2/01/08

LIFT / DESCRIPTION:

#1 - NE CORNER floor - 1st Lift

#2 - East side floor - 1st Lift

#3 - South side Floor - 1st Lift

#4 - WEST side floor - 1st Lift

TESTED BY RABA KISTNER

LEGEND:

EXISTING GRADE CONTOUR

PROPOSED SUBGRADE CONTOUR

BOTTOM LINER LIMIT (70,550 SQFT–NEAT)

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
PRELIMINARY POND EXCAVATION VOLUME (ASSUMES 6" CUT FOR POND SIDE SLOPES & 1' CUT ACROSS POND BOTTOM)	2,530	0	2,530
TOTAL VOLUME REQUIRED TO ACHIEVE PROPOSED SUBGRADE ELEVATIONS ONCE PRELIMINARY POND EXCAVATION IS COMPLETE	3,977	39,332	35,355
INITIAL 2 FT PRO COVER LAYER	0	4,663	4,663

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
2	1/27/08	MMC	JW	JW	REVISED EXISTING GRADE CONTOURS UTILIZED FOR SUBGRADE DESIGN VOLUMES
1	1/11/08	MMC	JW	JW	JANUARY 8TH POND 6 DESIGN COMMENTS FROM ASARCO FACTORED INTO REV 1
0	12/19/07	MMC	JW	JW	ISSUED FOR REVIEW

ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 1

PROJECT NAME & LOCATION: POND 6 SUBGRADE GRADING VOLUME ANALYSIS
ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

DESIGNED BY	M. CARLSON	CHECKED BY	J. WESCOTT
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT
DATE	12-19-07	DATE	12-19-07
PROJECT NO.	D7024	DRAWING NO.	C-D7024-001

REVISION 1

SHEET NO. 1 OF 4

Engineers, Geologists, Hygienists and Environmental Scientists

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkcl.com

DAILY REPORT

DATE: 2-1-08

PROJECT: Pawn 6

PROJECT NO.:

CLIENT: Entact

CONTRACTOR: Entact

TECHNICIAN: Charlie

Day	S	M	T	W	T	F	S

WEATHER	Sunny	Clear	Overcast	Rain	Snow
TEMP (°F)	To 32	32 50	50 70	70 85	85 up
WIND	Still	Moderate	High	Relates to Lab.	
HUMIDITY	Low	Moderate	High	No.:	

Conduct 4 densities for Pawn 6 Floor using 1192 @ 11.4 proctor. Test recorded 95.9 @ 10.1 on N.E. corner, 99.6 @ 11.1 at eastside, 95.7 @ 8.4 at southside 92.1 @ 8.8 at westside. All test were 1st lift

This field memo contains information related to the referenced project and should be considered preliminary. Test results or data are subject to review prior to inclusion in our project report(s). Engineering evaluations or opinion regarding suitability of subject work or materials should not be constituted from this information. Any questions should be directed to R-K for clarification.

Arrived Site:	
Tech Time:	
Stand by Time:	
Departed Site:	
Travel Time:	

Received By

Title

Date

03/16/04 bej; P\CMT\Technicians forms\Daily Report

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FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC (E-MAIL)**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 02/01/2008
ASSIGNMENT NO.: E08-010687
REPORT VERSION: A
SHEET NUMBER: 1 of 1
TECHNICIAN: CHARLES POWERS

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
7	Pond 6 floor, northeast corner	3	1st	10.1	114.3	96.0	Yes
8	Pond 6 floor, east side	3	1st	11.1	118.7	100.0	Yes
9	Pond 6 floor, south side	3	1st	8.4	114.0	96.0	Yes
10	Pond 6 floor, west side	3	1st	8.4	109.8	92.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-13.4	90	ASTM D 1557

REFERENCE: Fill

FIELD TEST PROCEDURE: ASTM D 2922 & D 3017 **PERSON NOTIFIED:** Mr. Gary Markum of Entact, LLC

GAUGE NUMBER: 1 **CONTRACTOR:** N/A

*** - Indicates noncompliance with specifications.**

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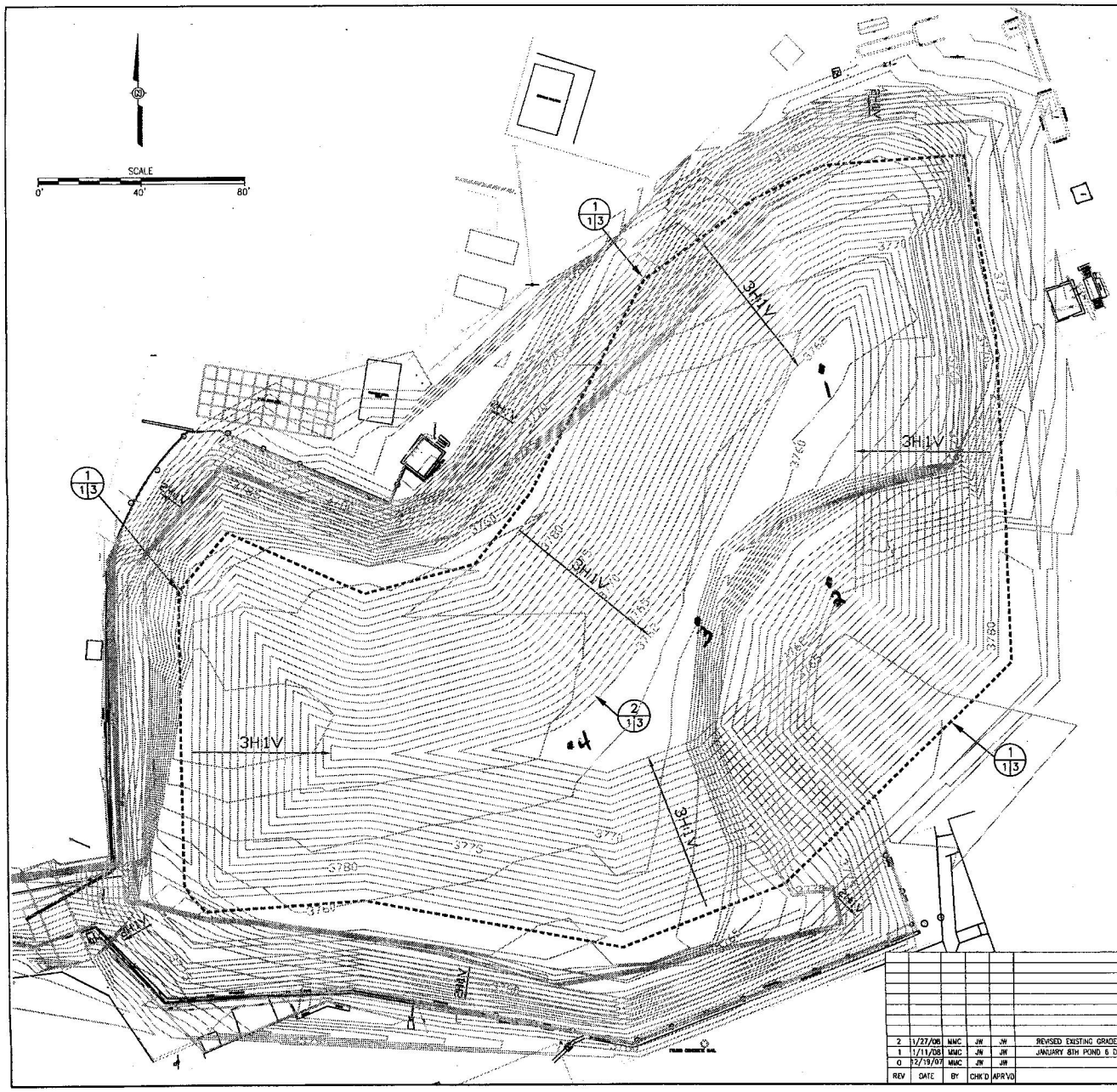
RABA-KISTNER CONSULTANTS, INC.

BY: _____

STATE OF TEXAS
BERNARDINO OLAGUE
61528
LICENSED
PROFESSIONAL ENGINEER

Updated By: BJ 2/28/08 11:05 am



ENTACT SERVICES LLC ASARCO EL PASO POND 6 COMPACTION TESTS

DATE: 2/06/08

LIFT / DESCRIPTION:

#1 - NE side floor - 2nd Lift

#2 - East side floor - 2nd Lift

#3 - South side floor - 2nd Lift

#4 - West side floor - 2nd Lift

TESTED BY RABA KISTNER

LEGEND:

EXISTING GRADE CONTOUR

PROPOSED SUBGRADE CONTOUR

BOTTOM LINER LIMIT (70,550 SOFT-NEAT)

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
PRELIMINARY POND EXCAVATION VOLUME (ASSUMES 6" CUT FOR POND SIDE SLOPES & 1' CUT ACROSS POND BOTTOM)	2,530	0	2,530
TOTAL VOLUME REQUIRED TO ACHIEVE PROPOSED SUBGRADE ELEVATIONS ONCE PRELIMINARY POND EXCAVATION IS COMPLETE	3,977	39,332	35,355
INITIAL 2 FT PRO COVER LAYER	0	4,663	4,663

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
2	1/27/08	MMC	JW	JW	REVISED EXISTING GRADE CONTOURS UTILIZED FOR SUBGRADE DESIGN VOLUMES
1	1/11/08	MMC	JW	JW	JANUARY 8TH POND 6 DESIGN COMMENTS FROM ASARCO FACTORED INTO REV 1
0	12/19/07	MMC	JW	JW	ISSUED FOR REVIEW

ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 1

POND 6 SUBGRADE GRADING VOLUME ANALYSIS

PROJECT NAME & LOCATION: ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

DESIGNED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	1
DATE	12-19-07	DATE	12-19-07	SHEET NO.
PROJECT NO.	D7024	DRAWING NO.	C-D7024-001	1 OF 4

Engineers, Geologists, Hygienists and Environmental Scientists

DAILY REPORT

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkcl.com

DATE: 2-6-08

PROJECT: Asarco Pond 6

PROJECT NO.:

CLIENT: Entact

CONTRACTOR: Entact

TECHNICIAN: Charlie

Day	S	M	T	W	T	F	S

WEATHER	Sunny	Clear	Overcast	Rain	Snow
TEMP (°F)	To 32	32 50	50 70	70 85	85 up
WIND	Still	Moderate	High	Relates to Lab.	
HUMIDITY	Low	Moderate	High	No.:	

Conduct 4 densities for pond 6 floor using 119.2 @ 11.4 proctor. Test recorded 95.1 @ 9.5 at N.E. side, 97.3 @ 11.6 at Eastside, 95.0 @ 8.4 at South side, 95.7 @ 10.4 at westside

This field memo contains information related to the referenced project and should be considered preliminary. Test results or data are subject to review prior to inclusion in our project report(s). Engineering evaluations or opinion regarding suitability of subject work or materials should not be constituted from this information. Any questions should be directed to R-K for clarification.

Arrived Site:	
Tech Time:	
Stand by Time:	
Departed Site:	
Travel Time:	

Gary Markum
Received By

Title

Date

03/16/04 bej; P\CMT\Technicians forms\Daily Report

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Raba Kistner

FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC (E-MAIL)**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 02/06/2008
ASSIGNMENT NO.: E08-010989
REPORT VERSION: A
SHEET NUMBER: 1 of 1
TECHNICIAN: CHARLES POWERS

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
11	Pond 6 floor, northeast quadrant	3	2nd	9.5	113.3	95.0	Yes
12	Pond 6 floor, east side quadrant	3	2nd	11.6	115.9	97.0	Yes
13	Pond 6 floor, south side quadrant	3	2nd	8.4	113.3	95.0	Yes
14	Pond 6 floor, west side quadrant	3	2nd	10.4	114.1	96.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-13.4	90	ASTM D 1557

REFERENCE: Fill

FIELD TEST PROCEDURE: ASTM D 2922 & D 3017

PERSON NOTIFIED: Mr. Gary Markum of Entact, LLC

GAUGE NUMBER: 1

CONTRACTOR: N/A

*** - Indicates noncompliance with specifications.**

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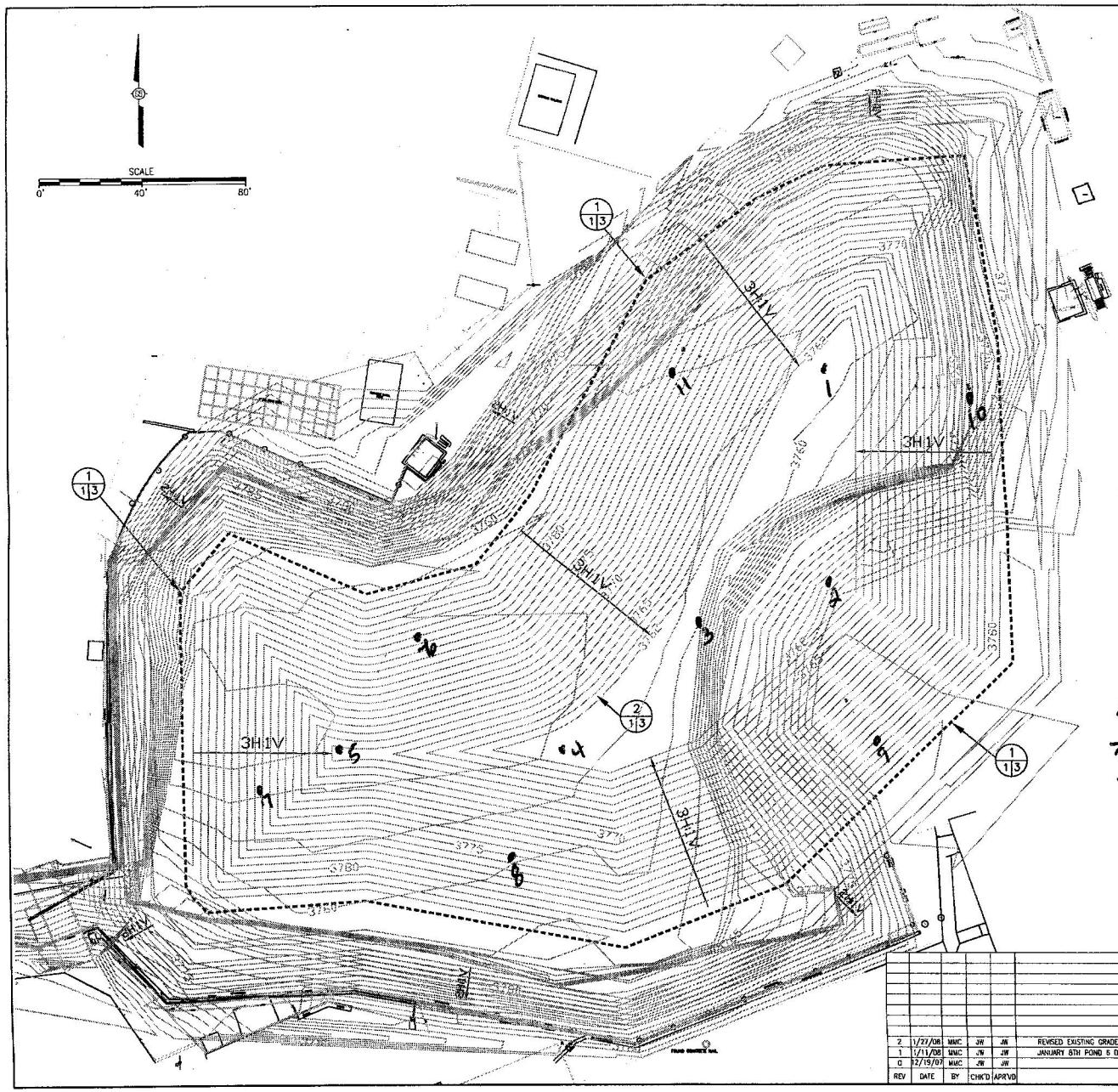
BY: _____

STATE OF TEXAS
BERNARDINO OLAGUE
91628
LICENSED
PROFESSIONAL ENGINEER

Updated By: BJ 2/28/08 11:07 am



ENTACT SERVICES LLC ASARCO EL PASO POND 6 COMPACTION TESTS

DATE: 2/11/08

LIFT / DESCRIPTION: #1-NE side floor - SG
#2-East side floor - SG
#3-Southside floor - SG
#4-westside floor - SG
#5-TOE-2' BSG
#6-TOS-8' BSG
#7-TOS-9' BSG

TESTED BY RABA KISTNER

LEGEND:

EXISTING GRADE CONTOUR

PROPOSED SUBGRADE CONTOUR

BOTTOM LINER LIMIT (70,550 SQFT-NEAT)

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
PRELIMINARY POND EXCAVATION VOLUME (ASSUMES 6" CUT FOR POND SIDE SLOPES & 1' CUT ACROSS POND BOTTOM)	2,530	0	2,530
TOTAL VOLUME REQUIRED TO ACHIEVE PROPOSED SUBGRADE ELEVATIONS ONCE PRELIMINARY POND EXCAVATION IS COMPLETE	3,977	39,332	35,355
INITIAL 2 FT PRO COVER LAYER	0	4,663	4,663

SG - Subgrade

BSG - Below Subgrade

TOS - Top of Slope

TOE - TOE of Slope

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
2	1/22/08	MMC	JW	JW	REVISED EXISTING GRADE CONTOURS UTILIZED FOR SUBGRADE DESIGN VOLUMES
1	1/11/08	MMC	JW	JW	JANUARY 8TH POND 6 DESIGN COMMENTS FROM ASARCO FACTORED INTO REV 1
0	12/19/07	MMC	JW	JW	ISSUED FOR REVIEW

ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

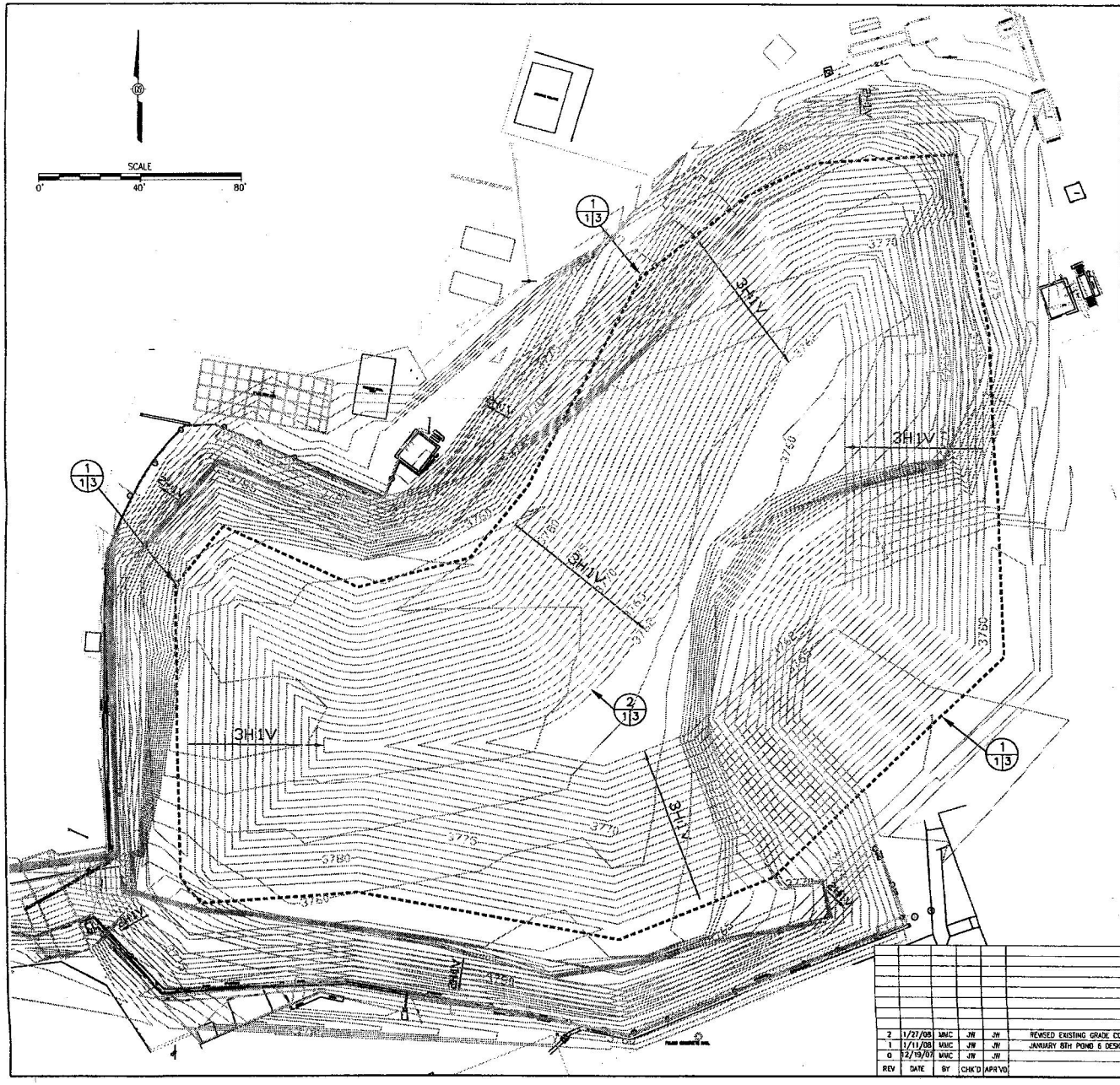
DRAWING NAME: DRAWING 1

PROJECT NAME & LOCATION: POND 6 SUBGRADE GRADING VOLUME ANALYSIS
ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

DESIGNED BY	M. CARLSON	CHECKED BY	J. WESCOTT
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT
DATE	12-19-07	DATE	12-19-07
PROJECT NO.	07024	DRAWING NO.	C-07024-001

REVISION: 1

SHEET NO. 1 OF 4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Engineers, Geologists, Hygienists and Environmental Scientists

Raba Kistner

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7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

DAILY REPORT

DATE: 2-11-08

PROJECT: Asarco Pond 6

PROJECT NO.: Pending

CLIENT: Entact

CONTRACTOR: Entact

TECHNICIAN: Charlie

Day	S	M	T	W	T	F	S

WEATHER	Sunny	Clear	Overcast	Rain	Snow
TEMP (°F)	To 32	32 50	50 70	70 85	85 up
WIND	Still	Moderate	High	Relates to Lab.	
HUMIDITY	Low	Moderate	High	No.:	

Conducted 11 densities for Pond 6 floor and top of slope using 119.2 @ 11.4 proctor. Test recorded 97.2 @ 12.9 at #1 N.E. subgrade, 96.8 @ 10.8 at #2 east subgrade, 96.1 @ 11.0 at #3 south, 99.0 @ 11.7 at #4 west, 92.2 @ 9.8 at #5 S.W. all for pond floor.

97.0 @ 10.2 at #6 8' below S.G., 96.0 @ 8.5 at #7 9' below S.G., 94.5 @ 8.2 at #8 9' below S.G., 90.2 @ 8.9 at #9 3' below S.G., 96.7 @ 8.6 at #10 3' below S.G., 93.6 @ 11.4 at 8' below S.G. all test location top of slope

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Arrived Site:	
Tech Time:	
Stand by Time:	
Departed Site:	
Travel Time:	

Received By: Gary Markum

Title:

Date: 2/11/08

03/16/04 bej; P\CMT\Technicians forms\Daily Report

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FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC (E-MAIL)**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 02/11/2008
ASSIGNMENT NO.: E08-010990
REPORT VERSION: A
SHEET NUMBER: 1 of 2
TECHNICIAN: CHARLES POWERS

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
15	Pond 6 floor, northeast quadrant, Area 1	3	Subgrade	12.9	115.9	97.0	Yes
16	Pond 6 floor, east quadrant, Area 2	3	Subgrade	10.8	115.4	97.0	Yes
17	Pond 6 floor, south quadrant, Area 3	3	Subgrade	11.0	114.6	96.0	Yes
18	Pond 6 floor, west quadrant, Area 4	3	Subgrade	11.7	118.0	99.0	Yes
19	Pond 6 floor, southwest quadrant, Area 5	3	(1)	9.8	109.9	92.0	Yes
20	Pond 6 floor, top of slope, Area 6	3	(2)	10.2	115.6	97.0	Yes
21	Pond 6 floor, top of slope, Area 7	3	(3)	8.5	114.4	96.0	Yes
22	Pond 6 floor, top of slope, Area 8	3	(3)	14.2	112.6	94.0	Yes
23	Pond 6 floor, top of slope, Area 9	3	(4)	8.9	107.5	90.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-14.4	90	ASTM D 1557

REFERENCE: Fill

FIELD TEST PROCEDURE: ASTM D 2922 & D 3017

PERSON NOTIFIED: Mr. Gary Markum of Entact, LLC

GAUGE NUMBER: 1

CONTRACTOR: N/A

REMARKS: (1) 2' Below Subgrade (2) 8' Below Subgrade (3) 9' Below Subgrade (4) 3' Below Subgrade

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Updated By: BJ 2/29/08 5:23 pm

Raba Kistner

FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC (E-MAIL)**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 02/11/2008
ASSIGNMENT NO.: E08-010990
REPORT VERSION: A
SHEET NUMBER: 2 of 2
TECHNICIAN: CHARLES POWERS

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
24	Pond 6 floor, top of slope, Area 10	3	(4)	8.6	115.2	97.0	Yes
25	Pond 6 floor, top of slope, Area 11	3	(2)	11.4	111.5	94.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-14.4	90	ASTM D 1557

REFERENCE: Fill
FIELD TEST PROCEDURE: ASTM D 2922 & D 3017
PERSON NOTIFIED: Mr. Gary Markum of Entact, LLC
GAUGE NUMBER: 1
CONTRACTOR: N/A
REMARKS: (1) 2' Below Subgrade (2) 8' Below Subgrade (3) 9' Below Subgrade (4) 3' Below Subgrade

NOTICE: Raba-Kistner Consultants, Inc. considers the data and information contained in this report to be proprietary. This information is intended only for the use of the recipient(s) named herein. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part for any purpose other than to validate test results without written approval from Raba-Kistner Consultants, Inc.

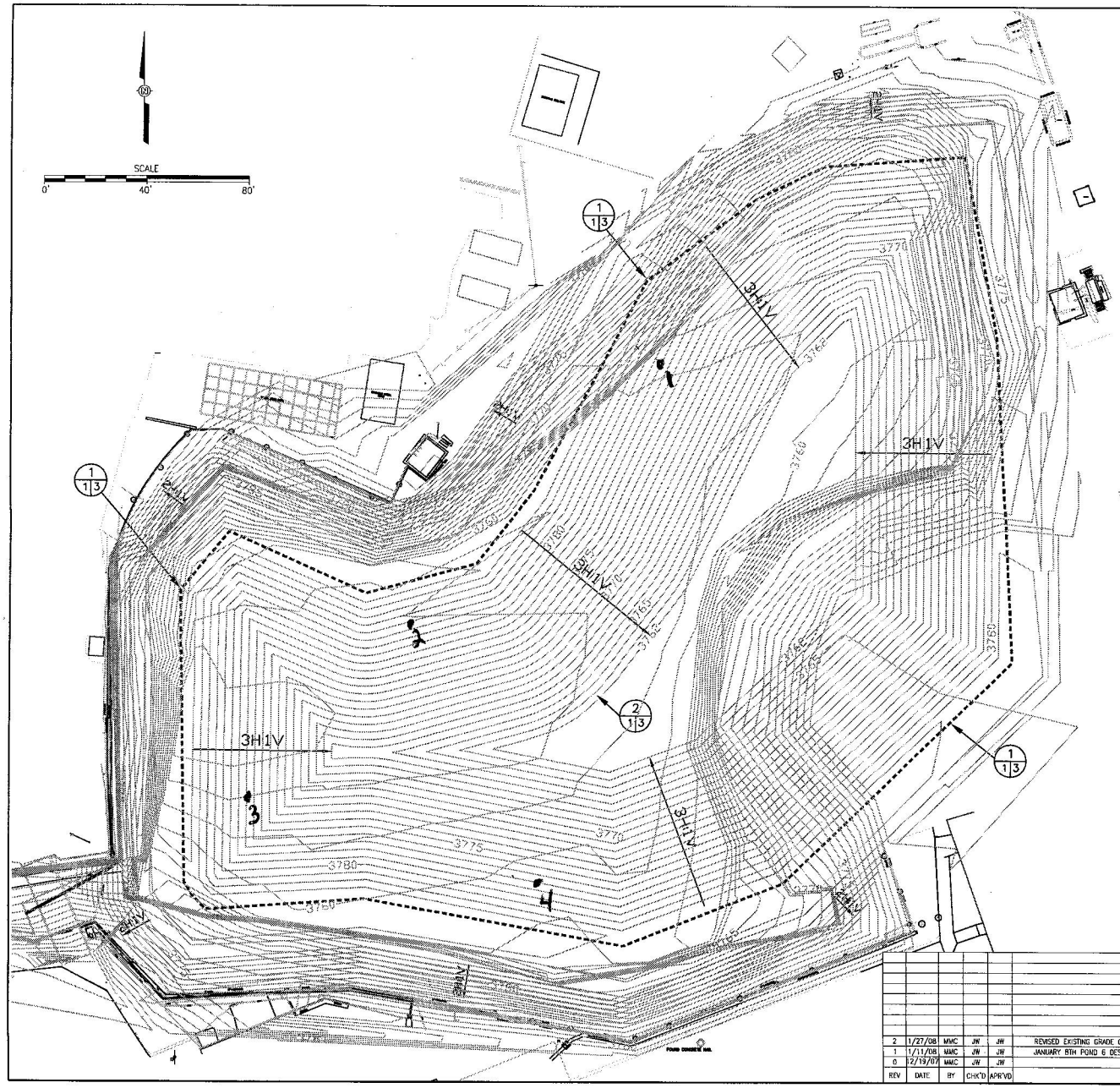
COPIES TO: Above (1)

RABA-KISTNER CONSULTANTS, INC.

STATE OF TEXAS
BERNARDINO OLAGUE
81628
LICENSED
PROFESSIONAL ENGINEER

BY: _____

Updated By: BJ 2/29/08 5:23 pm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Engineers, Geologists, Hygienists and Environmental Scientists

DAILY REPORT

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkcl.com

DATE: 2-25-08

PROJECT: ASARCO POND #6

PROJECT NO.:

CLIENT: ENTRCT

CONTRACTOR:

TECHNICIAN: JG

Day	S	M	T	W	T	F	S

WEATHER	Sunny	Clear	Overcast	Rain	Snow
TEMP (°F)	To 32	32 50	50 70	70 85	85 up
WIND	Still	Moderate	High	Relates to Lab.	
HUMIDITY	Low	Moderate	High	No.:	

TOP SLOPE AREA #1 6' BFG 95.3 - 9.6
" " #2 6' " 95.0 - 8.9
#3 7' ✓ 90.7 - 12.4
#4 6' ✓ 93.7 14.1

PROCTOR 119.2 - 11.4

This field memo contains information related to the referenced project and should be considered preliminary. Test results or data are subject to review prior to inclusion in our project report(s). Engineering evaluations or opinion regarding suitability of subject work or materials should not be constituted from this information. Any questions should be directed to R-K for clarification.

Arrived Site:	10:00
Tech Time:	
Stand by Time:	
Departed Site:	10:30
Travel Time:	

Gary Mark — GARY MARKUM
Received By

Title

2/25/08
Date

03/16/04 bej; P\CMT\Technicians forms\Daily Report

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Raba Kistner

FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC (E-MAIL)**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 02/25/2008
ASSIGNMENT NO.: E08-011283
REPORT VERSION: A
SHEET NUMBER: 1 of 1
TECHNICIAN: MANUEL S. REYES

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
26	Pound #6 area #1 top slop	3	6th	9.6	113.6	95.0	Yes
27	Pound #6 area #2 top slop	3	6th	8.9	113.2	95.0	Yes
28	Pound #6 area #3 top slop	3	7th	12.4	108.2	91.0	Yes
29	Pound #6 area #4 top slop	3	6th	14.1	111.7	94.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-14.4	90	ASTM D 1557

REFERENCE: Fill

FIELD TEST PROCEDURE: ASTM D 2922 & D 3017

GAUGE NUMBER: 1

PERSON NOTIFIED: Mr. Garry Markum of Entact

CONTRACTOR: N/A

NOTICE: Raba-Kistner Consultants, Inc. considers the data and information contained in this report to be proprietary. This information is intended only for the use of the recipient(s) named herein. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part for any purpose other than to validate test results without written approval from Raba-Kistner Consultants, Inc.

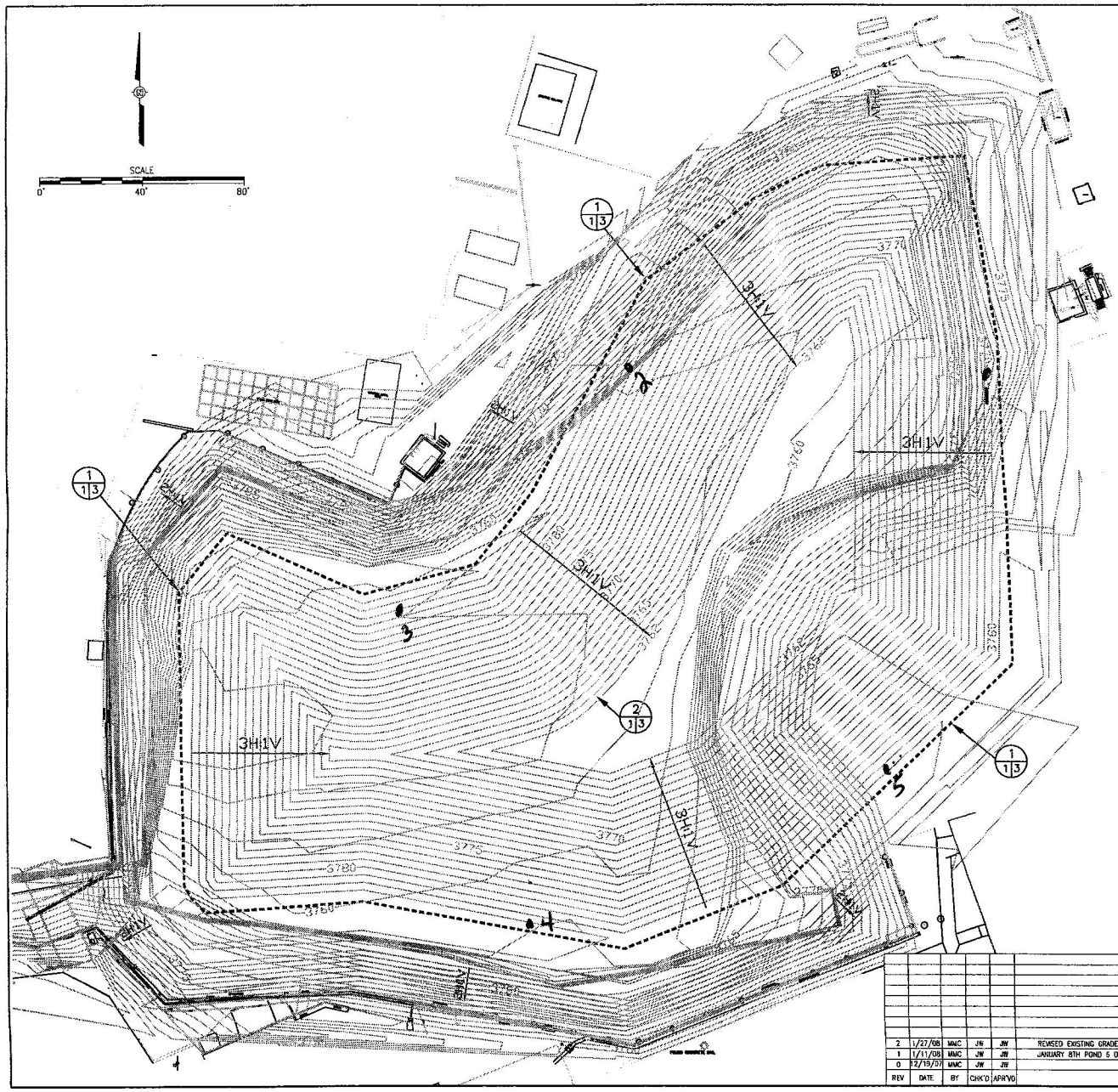
COPIES TO: Above (1)

RABA-KISTNER CONSULTANTS, INC.

BY: _____

STATE OF TEXAS
BERNARDINO OLAGUE
81628
LICENSED
PROFESSIONAL ENGINEER

Updated By: BJ 3/3/08 3:55 pm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3H:1V
3H:1V

Engineers, Geologists, Hygienists and Environmental Scientists

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

DAILY REPORT

DATE: 3-4-08

PROJECT: Pond 6

PROJECT NO.:

CLIENT: Entact

CONTRACTOR: Entact

TECHNICIAN: Charlie

Day	S	M	T	W	T	F	S

WEATHER	Sunny	Clear	Overcast	Rain	Snow
TEMP (°F)	To 32	32 50	50 70	70 85	85 up
WIND	Still	Moderate	High	Relates to Lab.	
HUMIDITY	Low	Moderate	High	No.:	

Arrive to site to conduct 5 densities for top of slope at Pond 6. All densities were taken using 119.2 @ 11.4 proctor. Results recorded 97.0 @ 9.5 at Area 1 S.G., 92.4 @ 13.1 at Area 2 2' below S.G., 91.1 @ 13.3 at Area 3 3' below S.G., 92.4 @ 8.8 at Area 4 S.G., 94.9 @ 13.1 at Area 5 S.G.

This field memo contains information related to the referenced project and should be considered preliminary. Test results or data are subject to review prior to inclusion in our project report(s). Engineering evaluations or opinion regarding suitability of subject work or materials should not be constituted from this information. Any questions should be directed to R-K for clarification.

Arrived Site:	9:30
Tech Time:	
Stand by Time:	
Departed Site:	
Travel Time:	

Received By

Title: FPM

Date: 3/4/08

03/16/04 bej; P\CMT\Technicians forms\Daily Report

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FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 779-5233 • FAX (915) 779-8301
www.rkci.com

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC (E-MAIL)**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 03/04/2008
ASSIGNMENT NO.: E08-011499
REPORT VERSION: A
SHEET NUMBER: 1 of 1
TECHNICIAN: CHARLES POWERS

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
30	Area 1 top of slope	3	Subgrade	9.5	115.7	97.0	Yes
31	Area 2 top of slope	3	#1	13.1	110.1	92.0	Yes
32	Area 3 top of slope	3	#2	13.3	108.5	91.0	Yes
33	Area 4 top of slope	3	Subgrade	8.8	110.2	92.0	Yes
34	Area 5 top of slope	3	Subgrade	13.1	113.2	95.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-14.4	90	ASTM D 1557

REFERENCE: Fill
FIELD TEST PROCEDURE: ASTM D 2922 & D 3017
GAUGE NUMBER:1
REMARKS:#1: 2' bellow Subgrade
#2: 3' bellow Subgrade

PERSON NOTIFIED: Mr. Guy Markum of Entact
CONTRACTOR:N/A

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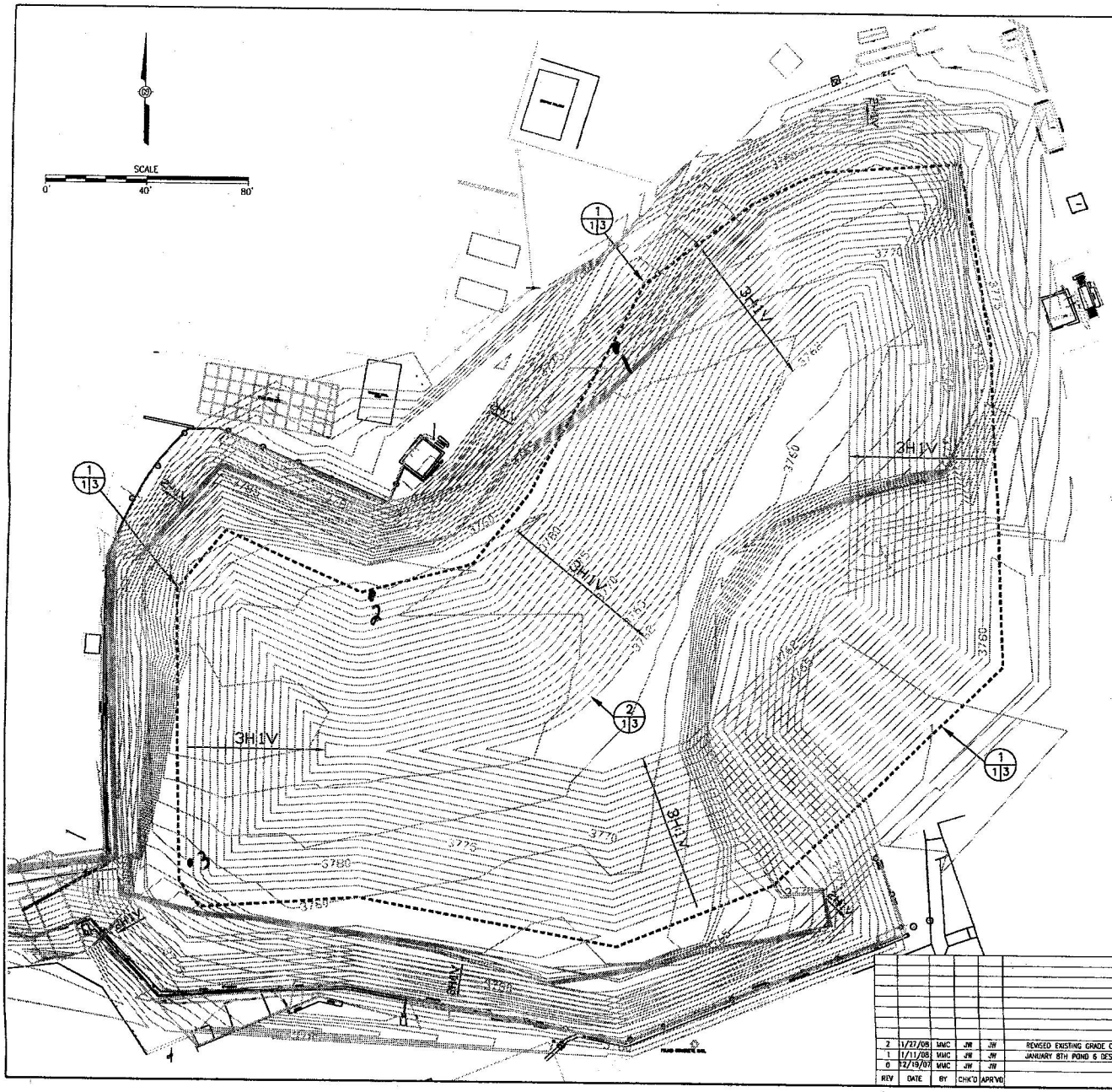
RABA-KISTNER CONSULTANTS, INC.

STATE OF TEXAS
BERNARDINO OLAGUE
81628
LICENSED
PROFESSIONAL ENGINEER

BY: _____

Updated By: BJ 3/11/08 10:12 am


SCALE
0'
40'
80'
3H:1V
3H:1V
3H:1V

Engineers, Geologists, Hygienists and Environmental Scientists

DAILY REPORT

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkcl.com

DATE: 3-25-08

PROJECT: Asarco Pond 6

PROJECT NO.: AKA 08-020-00

CLIENT: Entact

CONTRACTOR: Entact

TECHNICIAN: Charlie

Day	S	M	T	W	T	F	S

WEATHER	Sunny	Clear	Overcast	Rain	Snow
TEMP (°F)	To 32	32 50	50 70	70 85	85 up
WIND	Still	Moderate	High	Relates to Lab.	
HUMIDITY	Low	Moderate	High	No.:	

Arrive to site and conducted 3 densities for top of slope sub grade on Pond 6. Proctor used was 119.2 @ 11.4. Test recorded on Area 1 91.2 @ 8.4, Area 2 91.3 @ 8.7, Area 3 91.6 @ 9.3

This field memo contains information related to the referenced project and should be considered preliminary. Test results or data are subject to review prior to inclusion in our project report(s). Engineering evaluations or opinion regarding suitability of subject work or materials should not be constituted from this information. Any questions should be directed to R-K for clarification.

Arrived Site:	
Tech Time:	
Stand by Time:	
Departed Site:	
Travel Time:	

Received By Gary Markum

Title

Date

6/16/04 bej; P\CMT\Technicians forms\Daily Report

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Raba Kistner

FIELD TEST REPORT

Soil/Base Material Nuclear Density Test

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

ATTN.: MR. KIRK GATES
TO: **ENTACT, LLC (E-MAIL)**
3129 BASS PRO DRIVE
GRAPEVINE, TEXAS 76051

PROJECT NO.: AED08-020-00
DATE OF TEST: 03/25/2008
ASSIGNMENT NO.: E08-012057
REPORT VERSION: A
SHEET NUMBER: 1 of 1
TECHNICIAN: CHARLES POWERS

PROJECT: Entact Pond 6 Slope Construction

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO.	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT PROCTOR (%)	CONFORM
35	Top of slope pond 6 area 1	3	Subgrade	8.4	108.7	91.0	Yes
36	Top of slope pond 6 area 2	3	Subgrade	8.7	108.9	91.0	Yes
37	Top of slope pond 6 area 3	3	Subgrade	9.3	109.3	92.0	Yes

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DENSITY (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
3	Existing subgrade/Sandy lean clay w/gravel, brown (PI:17)	11.4	119.2	8.4-14.4	90	ASTM D 1557 Method A

REFERENCE: Fill
FIELD TEST PROCEDURE: ASTM D 2922 & D 3017
GAUGE NUMBER: 1
PERSON NOTIFIED: Mr. Gary Markum of Entact
CONTRACTOR: N/A

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BY: _____

Updated By: BJ 4/4/08 9:32 am

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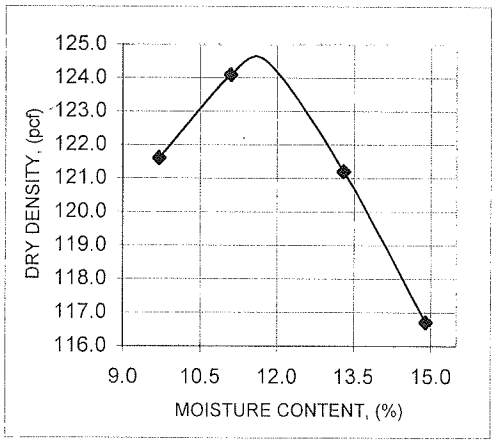
www.rkci.com

REPORT OF MOISTURE-DENSITY RELATIONSHIP OF SOILS, SIEVE ANALYSIS AND ATTERBERG LIMITS

CLIENT: Entact, LLC
3129 Bass Pro Drive, Grapevine, TX 76051
PROJECT: Entact Pond 6 Slope Construction
PROJECT NO.: AED08-020-00
SAMPLE TYPE/DESCRIPTION: Existing Subgrade/Sandy Lean Clay with gravel, medium plasticity, brown
SAMPLE LOCATION: Stockpile at Pond 6
SAMPLED BY: CP **SAMPLE DATE:** 01/22/08

Trial No.	Moisture Content (%)	Dry Density (pcf)
1	9.7	121.6
2	11.1	124.1
3	13.3	121.2
4	14.9	116.7
Method of Preparation		ASTM D1557-00
Maximum Density (pcf)		124.5
Optim. Moist. Content, (%)		11.8



LABORATORY TEST PROCEDURES: ASTM D 1557-00, method A
LAB NO.: E08-010456
COPIES SUBMITTED: Above (1) Attn: Mr. Kirk Gates

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Bernardino Olague, P.E.
Vice President

02/26/08 bej; P: CMT\2008\AED08-020-00\P08-010456.020

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Project No.: AED08-020-00
Laboratory No.: E08-010456
Sample Date: 01/22/08

SIEVE ANALYSIS, ASTM C 117-95/C 136-96$_a$			
Sieve Size	**% Retained**	**% Passing**	**Project Specifications**
1"	0	100	N/A
3/4"	1	99	N/A
1/2"	3	97	N/A
3/8"	5	95	N/A
No. 4	8	92	N/A
No. 10	13	87	N/A
No. 40	21	79	N/A
No. 100	25	75	N/A
No. 200	36	64	N/A

ATTERBERG LIMITS, ASTM D 4318-00		
TEST	**ACTUAL**	**SPECIFIED**
Liquid Limit:	33	N/A
Plasticity Index:	15	N/A

USCS SYMBOL: CL

The material tested is an existing material.

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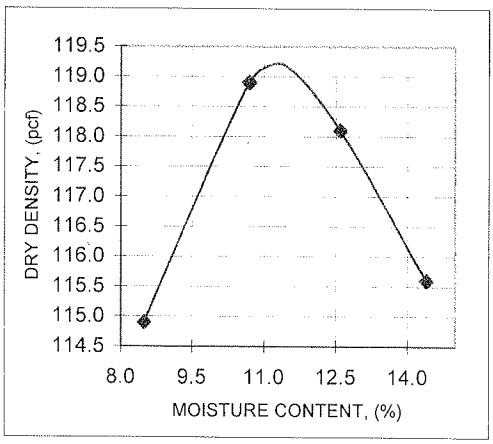
www.rkci.com

REPORT OF MOISTURE-DENSITY RELATIONSHIP OF SOILS, SIEVE ANALYSIS AND ATTERBERG LIMITS

CLIENT: Entact, LLC
3129 Bass Pro Drive, Grapevine, TX 76051
PROJECT: Entact Pond 6 Slope Construction
PROJECT NO.: AED08-020-00
SAMPLE TYPE/DESCRIPTION: Existing Subgrade/Sandy Lean Clay, moderately plastic, brown, with some gravel
SAMPLE LOCATION: Stockpile at Area II
SAMPLED BY: CP **SAMPLE DATE:** 01/22/08

Trial No.	Moisture Content (%)	Dry Density (pcf)
1	8.5	114.9
2	10.7	118.9
3	12.6	118.1
4	14.4	115.6
Method of Preparation		ASTM D1557-00
Maximum Density (pcf)		119.2
Optim. Moist. Content, (%)		11.4



LABORATORY TEST PROCEDURES: ASTM D 1557-00, method A
LAB NO.: E08-010457
COPIES SUBMITTED: Above (1) Attn: Mr. Kirk Gates

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Reviewed and Approved by:

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Bernardino Olague, P.E.
Vice President

02/26/08 bej; P: CMT\2008\AED08-020-00\E08-010457.020

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Project No.: AED08-020-00
Laboratory No.: E08-010457
Sample Date: 01/22/08

SIEVE ANALYSIS, ASTM C 117-95/C 136-96$_a$			
Sieve Size	**% Retained**	**% Passing**	**Project Specifications**
3/4"	0	100	N/A
1/2"	2	98	N/A
3/8"	2	98	N/A
No. 4	5	95	N/A
No. 10	8	92	N/A
No. 40	13	87	N/A
No. 100	22	78	N/A
No. 200	50	50	N/A

ATTERBERG LIMITS, ASTM D 4318-00		
TEST	**ACTUAL**	**SPECIFIED**
Liquid Limit:	34	N/A
Plasticity Index:	17	N/A

USCS SYMBOL: CL

The material tested is an existing material.

#2

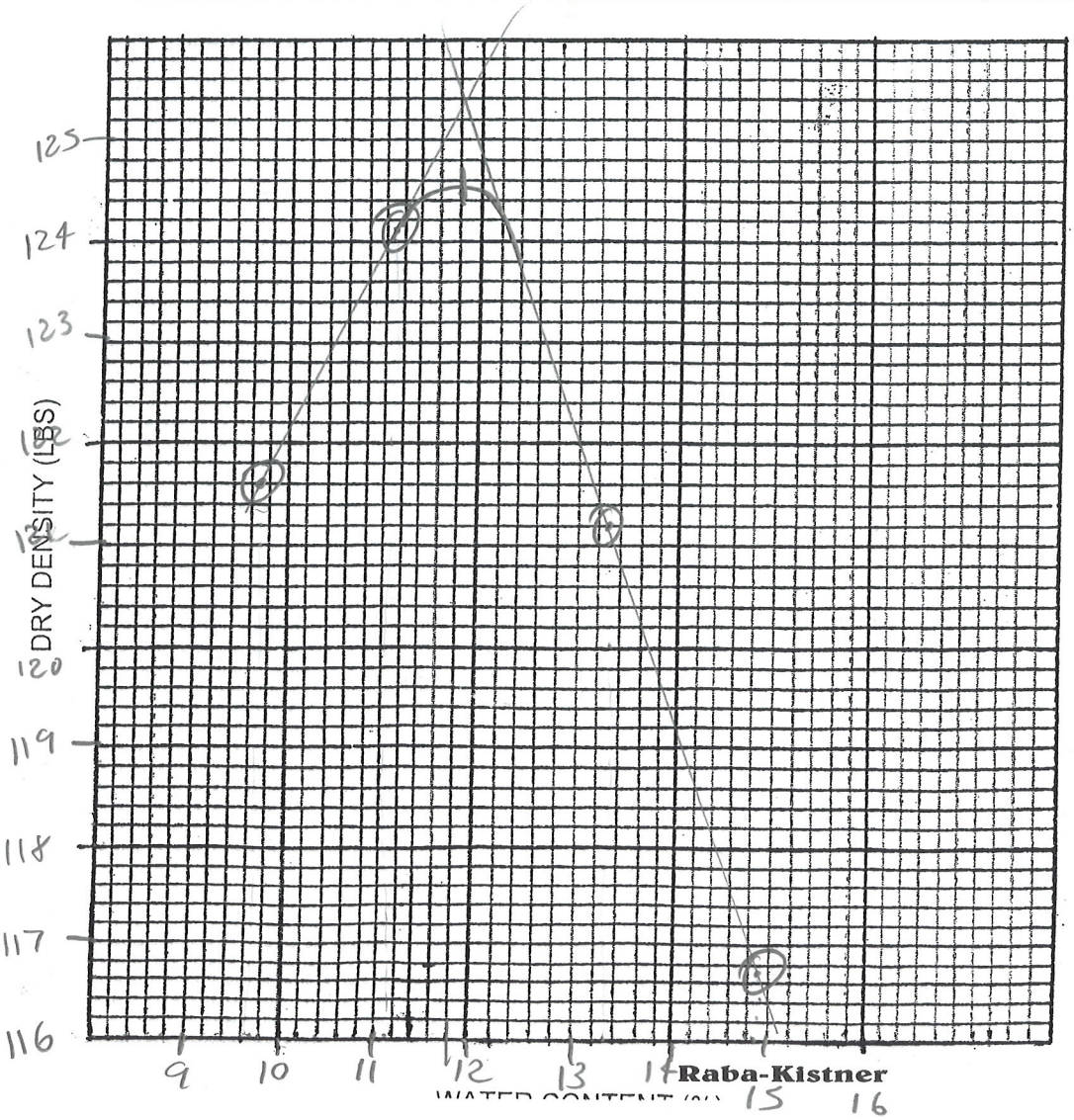
RABA KISTNER CONSULTANTS INC.

MOISTURE DENSITY RELATION OF SOILS

Lab. Number: 10456 Date: 1-22-08
Project Name: Asarco Pond 6 Project No. 08-Pondins
Received From: Pond 6 stockpile Sample By: CP

Test Method: A Soil Clasification:
Max. Dry Density: 124.5 Opt. Moisture: 11.8

SUBJECT	UNITS		1	8 2	10 3	12 4	14 5
Wet Wt. & Mold	MASS	LBS.		6288.8	6355.7	6348	6300
Wet of Mold	MASS	LBS.		4274.8	4274.8	4274.8	4274.8
Wet Wt. Sample	MASS	LBS.		2014.0	2081.1	2073.2	2025.2
Wet unit WT	MASS/VOL	P.C.F.		133.4	137.8	137.3	134.1
Pan Number	No.			V	X	Z	B
Wet Wt. & Pan	MASS	LBS.		250.7	250.3	250.1	250.4
Dry Wt. & Pan	MASS	LBS.		231.3	228.4	224.6	222.3
Wt. Water	MASS	LBS.		19.6	21.9	25.5	28.1
Wt. of Pan	MASS	LBS.		28.5	30.4	32.9	33.8
Dry Wt.	MASS	LBS.		202.8	198.0	191.7	188.5
Water Content	PERCENT	%		9.7	11.1	13.3	14.9
Dry Unit Wt.	MASS/VOL	P.C.F.		121.6	124.1	121.2	116.7



Does Proctor require a correction for oversize material (D-4718) 5 % or more retained on 3/4 sieve?

Does material have to meet Project Specifications requirements?

Set up Proctor By:

Run Proctor By:

Wt. Back Proctor By:

Calculate & Plot By:

proctors.xls

#1

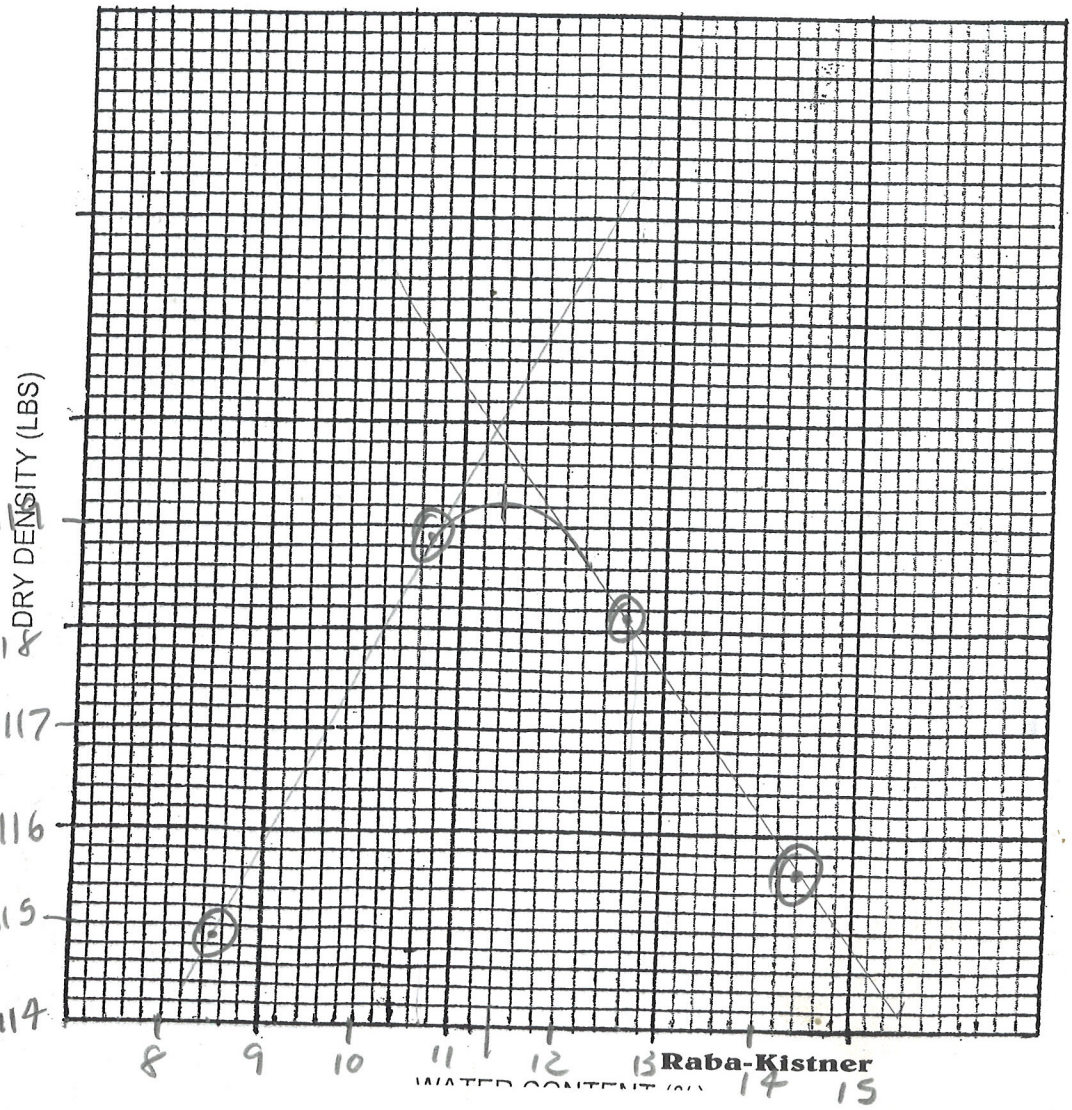
RABA KISTNER CONSULTANTS INC.

MOISTURE DENSITY RELATION OF SOILS

Lab. Number: 10457
Date: 1-22-08
Project Name: Asarco Pond 6
Project No. 08- Pendris
Received From: Area II stockpile
Sample By: CP

Test Method: A
Soil Clasification:
Max. Dry Density: 119.2
Opt. Moisture: 11.4

SUBJECT	UNITS		1	8 2	10 3	12 4	14 5
Wet Wt. & Mold	MASS	LBS.		6158.2	6261.7	6282.6	6277.4
Wet of Mold	MASS	LBS.		4274.8	4274.8	4274.8	4274.8
Wet Wt. Sample	MASS	LBS.		1883.4	1986.9	2007.8	2002.6
Wet unit WT	MASS/VOL	P.C.F.		124.7	131.6	133.0	132.6
Pan Number	No.			2R	5	30	13
Wet Wt. & Pan	MASS	LBS.		450.1	450.6	450.3	450.9
Dry Wt. & Pan	MASS	LBS.		429.7	425.5	421.4	418.4
Wt. Water	MASS	LBS.		20.4	25.1	28.9	32.5
Wt. of Pan	MASS	LBS.		190.7	189.9	192.2	192.4
Dry Wt.	MASS	LBS.		239.0	235.6	229.2	226.0
Water Content	PERCENT	%		8.5	10.7	12.6	14.4
Dry Unit Wt.	MASS/VOL	P.C.F.		114.9	118.9	118.1	115.6



Does Proctor require a correction for oversize material (D-4718) 5 % or more retained on 3/4 sieve?

Does material have to meet Project Specifications requirements?

Set up Proctor By:

Run Proctor By:

Wt. Back Proctor By:

Calculate & Plot By:

proctors.xls

REPORT OF MOISTURE-DENSITY RELATIONSHIP OF SOILS, SIEVE ANALYSIS AND ATTERBERG LIMITS

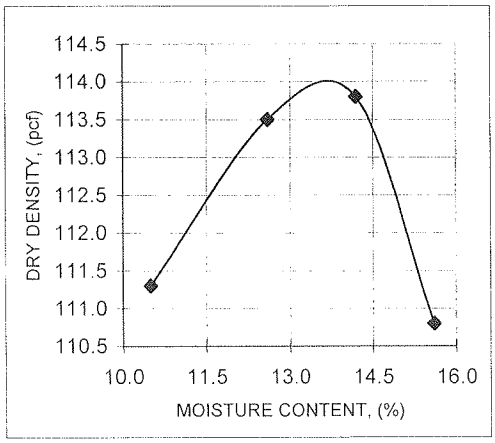
Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

CLIENT: Entact, LLC
3129 Bass Pro Drive, Grapevine, TX 76051
PROJECT: Entact Pond 6 Slope Construction
PROJECT NO.: AED08-020-00
SAMPLE TYPE/DESCRIPTION: Existing Subgrade/Silty Sand, light brown, non-plastic
SAMPLE LOCATION: Final cover
SAMPLED BY: AC **SAMPLE DATE:** 03/21/08

Trial No.	Moisture Content (%)	Dry Density (pcf)
1	10.5	111.3
2	12.6	113.5
3	14.2	113.8
4	15.6	110.8

Method of Preparation	ASTM D1557-00
Maximum Density (pcf)	114.0
Optim. Moist. Content, (%)	13.5



LABORATORY TEST PROCEDURES: ASTM D 1557-00, method A
LAB NO.: E08-011959
COPIES SUBMITTED: Above (1) Attn: Mr. Kirk Gates

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Reviewed and Approved by:

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Bernardino Olague, P.E.
Vice President

04/04/08 bej; P: CMT\2008\AED08-020-00\P08-011959.020

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Project No.: AED08-020-00
Laboratory No.: E08-011959
Sample Date: 03/21/08

SIEVE ANALYSIS, ASTM C 117-95/C 136-96$_a$			
Sieve Size	**% Retained**	**% Passing**	**Project Specifications**
No. 4	0	100	N/A
No. 10	1	99	N/A
No. 40	2	98	N/A
No. 100	54	46	N/A
No. 200	68.8	31.2	N/A

ATTERBERG LIMITS, ASTM D 4318-00		
TEST	**ACTUAL**	**SPECIFIED**
Liquid Limit:	Could not be determined	N/A
Plasticity Index:	Non-Plastic	N/A

USCS SYMBOL: SM

The material tested is an existing material.

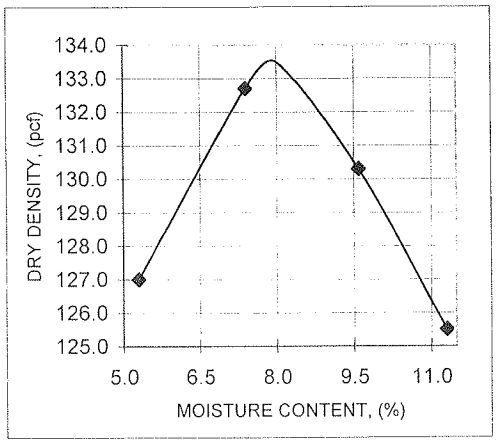
REPORT OF MOISTURE-DENSITY RELATIONSHIP OF SOILS, SIEVE ANALYSIS AND ATTERBERG LIMITS

Raba Kistner

Raba-Kistner Consultants (SW), Inc.
7002 Commerce
El Paso, Texas 79915
(915) 778-5233 • FAX (915) 779-8301
www.rkci.com

CLIENT: Entact, LLC
3129 Bass Pro Drive, Grapevine, TX 76051
PROJECT: Entact Pond 6 Slope Construction
PROJECT NO.: AED08-020-00
SAMPLE TYPE/DESCRIPTION: Existing Subgrade/Silty Sand with some gravel, brown, non-plastic
SAMPLE LOCATION: Intermediate and protective covers
SAMPLED BY: AC **SAMPLE DATE:** 03/21/08

Trial No.	Moisture Content (%)	Dry Density (pcf)
1	5.3	127.0
2	7.4	132.7
3	9.6	130.3
4	11.3	125.5
Method of Preparation		ASTM D1557-00
Maximum Density (pcf)		133.5
Optim. Moist. Content, (%)		8.0



LABORATORY TEST PROCEDURES: ASTM D 1557-00, method A
LAB NO.: E08-011958
COPIES SUBMITTED: Above (1) Attn: Mr. Kirk Gates

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PROFESSIONAL ENGINEER

Bernardino Olague, P.E.
Vice President

04/04/08 bej; P: CMT\2008\AED08-020-00\P08-011958.020

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Project No.: AED08-020-00
Laboratory No.: E08-011958
Sample Date: 03/21/08

SIEVE ANALYSIS, ASTM C 117-95/C 136-96$_a$			
Sieve Size	**% Retained**	**% Passing**	**Project Specifications**
3/8"	0	100	N/A
No. 4	6	94	N/A
No. 10	18	82	N/A
No. 40	41	59	N/A
No. 100	62	38	N/A
No. 200	72.8	27.2	N/A

ATTERBERG LIMITS, ASTM D 4318-00		
TEST	**ACTUAL**	**SPECIFIED**
Liquid Limit:	Could not be determined	N/A
Plasticity Index:	Non Plastic	N/A

USCS SYMBOL: SM

The material tested is an existing material.

Appendix J Construction Progress Reports – Category I Excavation & Landfills

J.1 ENTACT 2006 Weekly Project Summaries

ENTACT Services,LLC

Date 3/20/2006
Week of 3-20 thru 3-26

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	3/20/06	3/22/06	30
Pat McDonald	3/20/06	3/25/06	60
Kirk Gates			
Juan Carrillo	3/20/06	3/25/06	59
Jim Barker	3/20/06	3/25/06	55
Ubaldo Zubia	3/20/06	3/25/06	58
Jesus Chapa	3/20/06	3/25/06	59
Mitch Robinett	3/20/06	3/24/06	48
Howard Fregia	3/20/06	3/25/06	59
Miguel Hernandez	3/20/06	3/23/06	38

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		782
CAT D6M Dozer	3/1/2006		2,976
CAT 330C Hoe #3084	3/1/2006		2,350
CAT 330C Hoe #3327	3/1/2006		1,214
FL 2000 Gal Water Truck	3/22/2006		94,401
CAT 950G Loader CO	3/17/2006		2,175
Cat D5C Dozer	3/13/2006		1,027
Broce Broom	3/17/2006		611
Service Truck	3/6/2006		827
Cat 416 Back Hoe	3/23/2006		8

Action Item	QTY Today(est)	Cummulative QTY (verified)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	80%	80%	Waiting on Contractor to start utility relocate
4. Cat 1 Excavation, Disposal, Transport, Stockpile	30%	30%	Approx 4,000 cy removed from pond 5 TTD
5. Mass Excavation, Sideslope Embankment Fill	0%	0%	
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	0%	
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 9cy
Monday, March 20, 2006	90.00	810.00
Tuesday, March 21, 2006	90.00	810.00
Wednesday, March 22, 2006	85.00	765.00
Thursday, March 23, 2006	120.00	1080.00
Friday, March 24, 2006	102.00	918.00
Saturday, March 25, 2006	65.00	585.00
Total For Week	552.00	4968.00

Weather Conditions

Temp.	70 Ave
Wind	SW 5-25
Precip	0

Other (note equipment delivery and pickup here)

Replaced Water Truck 3/22/06

Description of Work Performed

Continue excavation of CAT 1 material ponds 1&5, Transport and stockpile. Continue with air monitoring. Final clean bottom pond5 and sample by asarco. Survey schduled for Tuesday.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date 3/27/2006
Week of 3-27 thru 4-2

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	3/27/06	4/1/06	58
Pat McDonald	3/27/06	3/31/06	48
Kirk Gates			
Juan Carrillo	3/27/06	4/1/06	60
Jim Barker	3/27/06	4/1/06	60
Ubaldo Zubia	3/27/06	4/1/06	60
Jesus Chapa	3/27/06	4/1/06	60
Mitch Robinett	3/27/06	4/1/06	60
Howard Fregia	3/27/06	3/30/06	40
Miguel Hernandez	3/27/06	4/1/06	60
Sean McCool	3/27/06	4/1/06	56

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		782
CAT D6M Dozer	3/1/2006		2,976
CAT 330C Hoe #3084	3/1/2006		2,350
CAT 330C Hoe #3327	3/1/2006		1,214
FL 2000 Gal Water Truck	3/22/2006		94,401
CAT 950G Loader CO	3/17/2006		2,175
Cat D5C Dozer	3/13/2006		1,027
Broce Broom	3/17/2006	3/30/2006	611
Service Truck	3/6/2006		827
Cat 416 Back Hoe	3/23/2006		8

Action Item	QTY Today(est)	Cummulative QTY (verified)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	90%	90%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	60%	60%	Slow start / progress of utility relocate may cause delay 12,546cy ttd
5. Mass Excavation, Sideslope Embankment Fill	5%	5%	Begin 3/31
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	0%	
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 9cy
Monday, March 27, 2006	135.00	1,215
Tuesday, March 28, 2006	132.00	1,188
Wednesday, March 29, 2006	149.00	1,341
Thursday, March 30, 2006	142.00	1,278
Friday, March 31, 2006	138.00	1,242
Saturday, April 01, 2006	156.00	1,404
Total For Week (CAT 1/ Mass	852.00	7,668
Total For Project (CAT 1/Mass	1,619.00	14,571

Weather Conditions

Temp.	70 Ave
Wind	SW 5-25
Precip	0

Other (note equipment delivery and pickup here)

CAT 1 Material 3/31 1394 loads 12,546cy TTD

Description of Work Performed

Continue with excavation of CAT 1 material from Pond 1 and stockpile. Samples taken Pond 5 3/27 and surved on 3/28. Misc. bottom clean up activities Pond 1. Remove fence in clean material stockpile area. Begin assisting with utility relocate. Final clean up bottom of pond 1. Survey scheduled for Monday - pond 1. Begin mass excavation of clean material pond 1.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date 4/3/2006
Week of 4-3 thru 4-9

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	4/3/06	4/8/06	49
Pat McDonald	4/3/06	4/8/06	60
Kirk Gates	4/3/06	4/8/06	58
Juan Carrillo	4/3/06	4/8/06	60
Jim Barker	4/3/06	4/8/06	60
Ubaldo Zubia	4/3/06	4/8/06	60
Jesus Chapa	4/3/06	4/8/06	60
Mitch Robinett	4/3/06	4/8/06	60
Howard Fregia	4/3/06	4/8/06	60
Miguel Hernandez	4/3/06	4/8/06	60
Sean McCool	4/3/06	4/8/06	60

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		936
CAT D6M Dozer	3/1/2006		3,058
CAT 330C Hoe #3084	3/1/2006		2,505
CAT 330C Hoe #3327	3/1/2006		1,363
FL 2000 Gal Water Truck	3/22/2006		94,554
CAT 950G Loader CO	3/17/2006		2,270
Cat D5C Dozer	3/13/2006		1,096
Broce Broom	3/17/2006	3/30/2006	611
Service Truck	3/6/2006		908
Cat 416 Back Hoe	3/23/2006		54

Action Item	QTY Today(est)	Cummulative QTY (verified)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	90%	90%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	60%	60%	Slow start / progress of utility relocate may cause delay
5. Mass Excavation, Sideslope Embankment Fill	5%	5%	Begin 3/31
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	0%	
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 9cy
Monday, April 03, 2006	156.00	1,404
Tuesday, April 04, 2006	141.00	1,269
Wednesday, April 05, 2006	141.00	1,269
Thursday, April 06, 2006	184.00	1,656
Friday, April 07, 2006	212.00	1,908
Saturday, April 08, 2006	172.00	1,548
Total For Week (Mass)	1,006.00	9,054
Total For Project (/Mass)	1,231.00	11,079

Weather Conditions

Temp.	75 Ave
Wind	SW 5-25
Precip	0

Other (note equipment delivery and pickup here)

CAT 1 Material 3/31 1,394 loads 12,546cy TTD

Mass Ex. Material 4/8 1,231 Loads 11,079cy TTD

Description of Work Performed

Continue to assist utility contractor. Final clean pond 1 bottom surveyed and sampled by Asarco. Continue with mass excavation pond 1 and stockpile. Investigate landfill. Survey elevations of pond bottoms.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date **4/10/2006**
Week of 4-10 thru 4-16

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	4/10/06	4/12/06	30
Pat McDonald	4/10/06	4/13/06	40
Kirk Gates	4/10/06	4/13/06	40
Juan Carrillo	4/10/06	4/13/06	40
Jim Barker	4/10/06	4/13/06	40
Ubaldo Zubia	4/10/06	4/13/06	40
Jesus Chapa	4/10/06	4/13/06	40
Mitch Robinett	4/10/06	4/13/06	40
Howard Fregia	4/10/06	4/13/06	40
Miguel Hernandez	4/10/06	4/13/06	40
Sean McCool	4/10/06	4/13/06	40

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		948
CAT D6M Dozer	3/1/2006		3,080
CAT 330C Hoe #3084	3/1/2006		2,538
CAT 330C Hoe #3327	3/1/2006		1,394
FL 2000 Gal Water Truck	3/22/2006		94,590
CAT 950G Loader CO	3/17/2006		2,310
Cat D5C Dozer	3/13/2006		1,135
Broce Broom	3/17/2006	3/30/2006	611
Service Truck	3/6/2006		1605
Cat 416 Back Hoe	3/23/2006		76

Action Item	QTY Week(est)	Cummulative QTY (verified)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	90%	90%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	60%	60%	Slow start / progress of utility relocate may cause delay
5. Mass Excavation, Sideslope Embankment Fill	14%	38%	Begin 3/31
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	0%	
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 9cy
Monday, April 10, 2006	205.00	1,845
Tuesday, April 11, 2006	199.00	1,791
Wednesday, April 12, 2006	200.00	1,800
Thursday, April 13, 2006	86.00	774
Friday, April 14, 2006	0.00	0
Saturday, April 15, 2006	0.00	0
Total For Week (Mass)	690.00	6,210
Total For Project (/Mass)	1,921.00	17,289

Weather Conditions

Temp.	78 Ave
Wind	SW 5-25
Precip	0.04

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 12,546cy TTD

(Mass Ex. Material 4/13) 1,921 Loads 17,289cy TTD

Description of Work Performed

Continue to assist utility contractor. Continue with mass excavation pond 1 and stockpile. Work to dry CAT 1 material. Survey bottom points pond 1.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date 4/17/2006
Week of 4-17 thru 4-23

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	4/17/06	4/22/06	50
Pat McDonald	4/17/06	4/21/06	38
Kirk Gates			
Juan Carrillo	4/17/06	4/22/06	50
Jim Barker	4/17/06	4/22/06	50
Ubaldo Zubia	4/17/06	4/22/06	50
Jesus Chapa	4/17/06	4/22/06	50
Mitch Robinett	4/17/06	4/20/06	28
Howard Fregia	4/17/06	4/20/06	28
Miguel Hernandez	4/17/06	4/22/06	50

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		948
CAT D6M Dozer	3/1/2006		3,080
CAT 330C Hoe #3084	3/1/2006		2,538
CAT 330C Hoe #3327	3/1/2006		1,394
FL 2000 Gal Water Truck	3/22/2006		94,590
CAT 950G Loader CO	3/17/2006		2,310
Cat D5C Dozer	3/13/2006		1,135
Broce Broom	3/17/2006	3/30/2006	611
Service Truck	3/6/2006		1605
Cat 416 Back Hoe	3/23/2006		76

Action Item	QTY Week(est)	Cummulative QTY (verified)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	5%	95%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Slow start / progress of utility relocate may cause delay
5. Mass Excavation, Sideslope Embankment Fill	16%	68%	Begin 3/31 Pond 1
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	0%	
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, April 17, 2006	0.00	0
Tuesday, April 18, 2006	185.00	1,850
Wednesday, April 19, 2006	197.00	1,970
Thursday, April 20, 2006	205.00	2,050
Friday, April 21, 2006	175.00	1,750
Saturday, April 22, 2006	178.00	1,780
Total For Week (Mass)	940.00	9,400
Total For Project (/Mass)	2,861.00	28,610

Weather Conditions

Temp.	83 Ave
Wind	SW 5-25
Precip	0

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 13,940cy TTD
(Mass Ex. Material 4/17) 2,861 Loads 28,610cy TTD
Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,802cy

Description of Work Performed

Continue to assist utility contractor. Continue with mass excavation pond 1 and stockpile. Work to dry CAT 1 material. Topo survey bottom pond 1. Sideslopes and embankment pond 1. Power poles have been moved from top slope pond 1.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date 4/24/2006
Week of 4-24 thru 4-30

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	4/24/06	4/28/06	47.5
Pat McDonald	4/26/06	4/29/06	40
Kirk Gates			
Juan Carrillo	4/24/06	4/29/06	60
Jim Barker	4/24/06	4/29/06	57
Ubaldo Zubia	4/24/06	4/29/06	60
Jesus Chapa	4/24/06	4/29/06	60
Mitch Robinett	4/24/06	4/29/06	60
Howard Fregia	4/24/06	4/29/06	60
Miguel Hernandez	4/24/06	4/29/06	58

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		995
CAT D6M Dozer	3/1/2006		3,137
CAT 330C Hoe #3084	3/1/2006		2,628
CAT 330C Hoe #3327	3/1/2006		1,479
FL 2000 Gal Water Truck	3/22/2006		94,701
CAT 950G Loader CO	3/17/2006		2,362
Cat D5C Dozer	3/13/2006		1,218
Service Truck	3/6/2006		1605
Cat 416 Back Hoe	3/23/2006		108

Action Item	QTY Week(est)	Cummulative QTY (verified)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	5%	95%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Slow start / progress of utility relocate may cause delay
5. Mass Excavation, Sideslope Embankment Fill	29%	97%	Begin 3/31 Pond 1
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	0%	
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, April 24, 2006	182.00	1,820
Tuesday, April 25, 2006	204.00	2,040
Wednesday, April 26, 2006	206.00	2,060
Thursday, April 27, 2006	213.00	2,130
Friday, April 28, 2006	200.00	2,000
Saturday, April 29, 2006	179.00	1,790
Total For Week (Mass)	1,184.00	11,840
Total For Project (/Mass)	4,045.00	40,450

Weather Conditions

Temp.	78 Ave
Wind	SW 5-25
Precip	0

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 13,940cy TTD
(Mass Ex. Material 4/17) 4,045 Loads 40,450cy TTD
Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,802cy

Description of Work Performed

Continue utility relocate - utility contractor. Continue with mass excavation pond 1 and stockpile. Sideslopes and embankment pond 1. Misc. survey of ponds 1&5. Begin pond 5 side-slope work.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date 5/1/2006
Week of 5-1 thru 5-7

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	5/1/06	5/6/06	60
Pat McDonald	5/1/06	5/5/06	48
Kirk Gates	5/1/06	5/4/06	38
Juan Carrillo	5/1/06	5/5/06	46
Jim Barker	5/2/06	5/6/06	48
Ubaldo Zubia	5/1/06	5/6/06	60
Jesus Chapa	5/1/06	5/4/06	38
Mitch Robinett	5/1/06	5/6/06	60
Howard Fregia	5/1/06	5/6/06	60
Miguel Hernandez	5/1/06	5/6/06	60

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		1015
CAT D6M Dozer	3/1/2006		3,172
CAT 330C Hoe #3084	3/1/2006		2,658
CAT 330C Hoe #3327	3/1/2006		1,509
FL 2000 Gal Water Truck	3/22/2006		94,753
CAT 950G Loader CO	3/17/2006		2,377
Cat D5C Dozer	3/13/2006		1,253
Service Truck	3/6/2006		2,079
Cat 416 Back Hoe	3/23/2006		118

Action Item	QTY Week(est)	Cummulative QTY (verified)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	3%	98%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Slow start / progress of utility relocate may cause delay
5. Mass Excavation, Sideslope Embankment Fill	22%	119%	Begin 3/31 Pond 1 (41,754 SOV)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	0%	
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, May 01, 2006	177.00	1,770
Tuesday, May 02, 2006	226.00	2,260
Wednesday, May 03, 2006	229.00	2,290
Thursday, May 04, 2006	195.00	1,950
Friday, May 05, 2006	86.00	860
Saturday, May 06, 2006	0.00	0
Total For Week (Mass)	913.00	9,130
Total For Project (/Mass)	4,958.00	49,580

Weather Conditions

Temp.	83 Ave
Wind	SW 5-25
Precip	0

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 13,940cy TTD
(Mass Ex. Material 4/17) 4,958 Loads 49,580cy TTD
Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
CAT 1 Survey Volume 15,615cy TTD

Description of Work Performed

Continue utility relocate - utility contractor. Continue with mass excavation pond 1 and stockpile. Sideslopes and embankment pond 1. Misc. survey of ponds 1&5. Continue pond 5 side-slope work. Finalizing Mass Excavation in ponds 1&5.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date 5/8/2006
Week of 5-8 thru 5-14

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	5/8/06	5/11/06	32
Pat McDonald	5/8/06	5/13/06	59.5
Kirk Gates			
Juan Carrillo	5/9/06	5/13/06	50.5
Jim Barker	5/8/06	5/13/06	56
Ubaldo Zubia	5/8/06	5/13/06	60.5
Jesus Chapa	5/8/06	5/13/06	56.5
Mitch Robinett	5/8/06	5/11/06	40
Howard Fregia	5/8/06	5/13/06	54.5
Miguel Hernandez	5/8/06	5/11/06	40
Mark Wilfert	5/9/06	5/13/06	50.5

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		1015
CAT D6M Dozer	3/1/2006		3,172
CAT 330C Hoe #3084	3/1/2006		2,658
CAT 330C Hoe #3327	3/1/2006		1,509
FL 2000 Gal Water Truck	3/22/2006		94,753
CAT 950G Loader CO	3/17/2006		2,377
Cat D5C Dozer	3/13/2006		1,253
Service Truck	3/6/2006		2,079
Cat 416 Back Hoe	3/23/2006		118

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	2%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	13%	132%	Begin 3/31 Pond 1 Complete Pond 1 5/13
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	5%	5%	Subgrade
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, May 08, 2006	105.00	1,050
Tuesday, May 09, 2006	124.00	1,240
Wednesday, May 10, 2006	134.00	1,340
Thursday, May 11, 2006	90.00	900
Friday, May 12, 2006	0.00	0
Saturday, May 13, 2006	0.00	0
Total For Week (Mass)	453.00	4,530
Total For Project (/Mass)	5,411.00	54,110

Weather Conditions

Temp.	83 Ave
Wind	SW 5-25
Precip	0

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 13,940cy TTD
(Mass Ex. Material 4/17) 4,958 Loads 49,580cy TTD
Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
CAT 1 Survey Volume 15,615cy TTD

Description of Work Performed

Continue utility relocate - utility contractor. Continue with mass excavation pond 1 and stockpile. Sideslopes and embankment pond 1. Misc. survey of ponds 1&5. Continue pond 5 side-slope work. Finalizing Mass Excavation in ponds 1&5. Take delivery of GCL. Complete pond 1 mass excavation and sideslope embankment fill on 5/13/06. Liner co. scheduled for 5/17/06 Mob.

Completed By: Pat McDonald /

Asarco Representative:

ENTACT Services,LLC

Date 5/15/2006
Week of 5-15 thru 5-21

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	5/15/06	5/20/06	60
Pat McDonald	5/15/06	5/15/06	8
Kirk Gates	5/15/06	5/20/06	60
Juan Carrillo	5/15/06	5/20/06	60
Jim Barker	5/15/06	5/20/06	60
Ubaldo Zubia	5/15/06	5/17/06	30
Jesus Chapa	5/15/06	5/20/06	60
Mitch Robinett	5/16/06	5/20/06	58
Howard Fregia	5/19/06	5/20/06	30
Miguel Hernandez	5/15/06	5/20/06	60
Mark Wilfert	5/15/06	5/20/06	60

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		1015
CAT D6M Dozer	3/1/2006		3,230
CAT 330C Hoe #3084	3/1/2006		2,712
CAT 330C Hoe #3327	3/1/2006		1,597
FL 2000 Gal Water Truck	5/10/2006		11,875
CAT 950G Loader CO	3/17/2006		2,422
Cat D5C Dozer	3/13/2006		1,302
Service Truck	3/6/2006		2,464
Cat 420 Back Hoe	3/23/2006		149
United Backhoe/Hammer	5/12/2006		1759
CAT D6R LGP	5/17/2006		704

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	132%	Begin 3/31 Pond 1 Complete Pond 1 5/13
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	45%	50%	Subgrade Complete Pond 1. Began Liner Installation Pond 1 on 5/18/06.
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, May 15, 2006	0.00	0
Tuesday, May 16, 2006	0.00	0
Wednesday, May 17, 2006	0.00	0
Thursday, May 18, 2006	0.00	0
Friday, May 19, 2006	0.00	0
Saturday, May 20, 2006	0.00	0
Total For Week (Mass)	0.00	0
Total For Project (/Mass)	5,411.00	54,110

Weather Conditions

Temp.	77 AVG
Wind	W to SW 4-29mph
Precip	0.16

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 13,940cy TTD
(Mass Ex. Material 4/17) 5,411 Loads 54,110cy TTD
Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
CAT 1 Survey Volume 15,615cy TTD

Description of Work Performed

Continue utility relocate - utility contractor. Completed subgrade prep on Pond 1. Final Topo survey of Pond 1. Continuing sideslope shaping on Pond 5. Liner Subcontractor mobilized on 5/17/06 and began placing liner in Pond 1 on 5/18/06. Take delivery of GCL and 60mil liner. Began stockpiling CAT 1 material in Pond 6.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 5/22/2006
Week of 5-22 thru 5-28

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	5/22/06	5/26/06	50
Kirk Gates	5/22/06	5/25/06	44
Juan Carrillo	5/22/06	5/25/06	38
Jim Barker	5/22/06	5/26/06	38
Ubaldo Zubia	5/22/06	5/26/06	50
Jesus Chapa	5/22/06	5/25/06	38
Mitch Robinett	5/22/06	5/26/06	50
Howard Fregia	5/22/06	5/26/06	50
Miguel Hernandez	5/22/06	5/26/06	50
Mark Wilfert	5/22/06	5/26/06	50

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		1124
CAT D6M Dozer	3/1/2006		3,242
CAT 330C Hoe #3084	3/1/2006		2,726
CAT 330C Hoe #3327	3/1/2006		1,615
FL 2000 Gal Water Truck	5/10/2006		12,001
CAT 950G Loader CO	3/17/2006		2,434
Cat D5C Dozer	3/13/2006	5/22/2006	
Service Truck	3/6/2006		2,635
Cat 420 Back Hoe	3/23/2006		177
United Backhoe/Hammer	5/12/2006	5/23/2006	
CAT D6R LGP	5/17/2006		710

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	132%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	40%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Waiting on approval to begin Prot. Cover
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, May 22, 2006	0.00	0
Tuesday, May 23, 2006	0.00	0
Wednesday, May 24, 2006	0.00	0
Thursday, May 25, 2006	0.00	0
Friday, May 26, 2006	0.00	0
Saturday, May 27, 2006	0.00	0
Total For Week (Mass)	0.00	0
Total For Project (/Mass)	5,411.00	54,110

Weather Conditions

Temp.	83 AVG
Wind	S-SW 6-17mph
Precip	0

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 13,940cy TTD
(Mass Ex. Material 4/17) 5,411 Loads 54,110cy TTD
Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
CAT 1 Survey Volume 15,615cy TTD

Description of Work Performed

Continue utility relocate - utility contractor. Completed sideslope shaping on Pond 5. Liner Subcontractor mobilized on 5/17/06 and began placing liner in Pond 1 on 5/18/06. Completed liner installation on Pond 1 on 5/24. Began liner installation on Pond 5 on 5/25 and completed on 5/27. Prepared Pond 6 to begin hauling Cat 1 material to Pond 1 repository. Hauling Cat 1 material to Pond 1 repository has been put on hold, pending approval from the State.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date **5/29/2006**
Week of 5-29 thru 6-04

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	5/29/06	6/2/06	48
Kirk Gates	5/29/06	6/2/06	48
Juan Carrillo	5/29/06	6/2/06	48
Jim Barker	5/29/06	6/2/06	8
Ubaldo Zubia	5/29/06	6/2/06	48
Jesus Chapa	5/29/06	6/2/06	48
Mitch Robinett	5/29/06	6/2/06	40
Howard Fregia	5/29/06	6/2/06	40
Miguel Hernandez	5/29/06	6/2/06	48
Mark Wilfert	5/29/06	6/2/06	40

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		1137
CAT D6M Dozer	3/1/2006	6/1/2006	3,242
CAT 330C Hoe #3084	3/1/2006		2,745
CAT 330C Hoe #3327	3/1/2006		1,615
FL 2000 Gal Water Truck	5/10/2006		12,108
CAT 950G Loader CO	3/17/2006		2,453
Service Truck	3/6/2006		2,874
Cat 420 Back Hoe	3/23/2006		183
CAT D6R LGP	5/17/2006		710
CAT D5 LGP	6/1/2006		401

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	132%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Waiting on approval to begin Prot. Cover
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, May 29, 2006	0.00	0
Tuesday, May 30, 2006	0.00	0
Wednesday, May 31, 2006	0.00	0
Thursday, June 01, 2006	0.00	0
Friday, June 02, 2006	0.00	0
Saturday, June 03, 2006	0.00	0
Total For Week (Mass)	0.00	0
Total For Project (/Mass)	5,411.00	54,110

Weather Conditions

Temp.	80 AVG
Wind	E-SE 4-23mph
Precip	0

Other (note equipment delivery and pickup here)

(CAT 1 Material 3/31) 1,394 loads 13,940cy TTD
(Mass Ex. Material 4/17) 5,411 Loads 54,110cy TTD
Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
CAT 1 Survey Volume 15,615cy TTD

Description of Work Performed

Continue utility relocate - utility contractor. Hauling Cat 1 material to Pond 1 or 5 repository has been put on hold, pending approval from the State. Surveyors performed existing topographic survey of areas 11 and 12. Began prepping Area 12 to begin hauling Cat 1 material to repository. Performing test holes in Area 11.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 6/5/2006
Week of 6-05 thru 6-11

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	6/5/06	6/11/06	26
Kirk Gates	6/5/06	6/11/06	40
Juan Carrillo	6/5/06	6/11/06	44
Jim Barker	6/5/06	6/11/06	12
Ubaldo Zubia	6/5/06	6/11/06	44
Jesus Chapa	6/5/06	6/11/06	44
Mitch Robinett	6/5/06	6/11/06	26
Howard Fregia	6/5/06	6/11/06	26
Miguel Hernandez	6/5/06	6/11/06	44
Mark Wilfert	6/5/06	6/11/06	44

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		1145
CAT 330C Hoe #3084	3/1/2006		2,745
CAT 330C Hoe #3327	3/1/2006		1,616
FL 2000 Gal Water Truck	5/10/2006		12,153
CAT 950G Loader CO	3/17/2006		2,453
Service Truck	3/6/2006		2,874
Cat 420 Back Hoe	3/23/2006	6/13/2006	183
CAT D6R LGP	5/17/2006		713
CAT D5 LGP	6/1/2006		401

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	132%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Waiting on approval to begin Prot. Cover
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, June 05, 2006	0.00	0
Tuesday, June 06, 2006	0.00	0
Wednesday, June 07, 2006	0.00	0
Thursday, June 08, 2006	0.00	0
Friday, June 09, 2006	0.00	0
Saturday, June 10, 2006	0.00	0
	0.00	0
		0

Weather Conditions

Temp.	80 AVG
Wind	E-SE 4-23mph
Precip	0

Other (note equipment delivery and pickup here)

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Hauling Cat 1 material to Pond 1 or 5 repository has been put on hold, pending approval from the State. Completed preparation of Area 12 for Cat 1 excavation. Standby began on Tuesday, June 6th. Began grading Cemetery Road on Wednesday, June 7th, and completed on Thursday, June 8th. Met with asphalt subcontractor on Friday, June 9th to coordinate scheduling of asphalt work for Cemetery Road.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 6/12/2006
Week of 6-12 thru 6-18

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	6/5/06	6/11/06	40
Kirk Gates	6/5/06	6/11/06	50
Juan Carrillo	6/5/06	6/11/06	42
Jim Barker	6/5/06	6/11/06	42
Ubaldo Zubia	6/5/06	6/11/06	42
Jesus Chapa	6/5/06	6/11/06	26
Mitch Robinett	6/5/06	6/11/06	40
Howard Fregia	6/5/06	6/11/06	40
Miguel Hernandez	6/5/06	6/11/06	33
Mark Wilfert	6/5/06	6/11/06	50

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006		1145
CAT 330C Hoe #3084	3/1/2006		2,745
CAT 330C Hoe #3327	3/1/2006		1,616
FL 2000 Gal Water Truck	5/10/2006		12,300
CAT 950G Loader CO	3/17/2006		2,470
Service Truck	3/6/2006		3,270
CAT D6R LGP	5/17/2006		713
CAT D5 LGP	6/1/2006		401
CAT 246B Skidsteer	6/15/2006		443

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Waiting on approval to begin Prot. Cover
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, June 12, 2006	0.00	0
Tuesday, June 13, 2006	0.00	0
Wednesday, June 14, 2006	0.00	0
Thursday, June 15, 2006	0.00	0
Friday, June 16, 2006	0.00	0
Saturday, June 17, 2006	0.00	0
	0.00	0
		0

Weather Conditions

Temp.	80 AVG
Wind	E-SE 4-23mph
Precip	0

Other (note equipment delivery and pickup here)

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Hauling Cat 1 material to Pond 1 or 5 repository has been put on hold, pending approval from the State. Standby began on Tuesday, June 6th. Completed asphalt installation on Cemetery Road on Wednesday, June 14th. Began spraying slag pile with emulsified asphalt on Thursday, June 15th. Began lining Cemetery Road with boulders on Thursday, June 15th.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date **6/19/2006**
Week of 6-19 thru 6-25

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	6/19/06	6/25/06	58
Kirk Gates	6/19/06	6/25/06	58
Juan Carrillo	6/19/06	6/25/06	58
Jim Barker	6/19/06	6/25/06	56
Ubaldo Zubia	6/19/06	6/25/06	58
Jesus Chapa	6/19/06	6/25/06	40
Mitch Robinett	6/19/06	6/25/06	56
Howard Fregia	6/19/06	6/25/06	56
Miguel Hernandez	6/19/06	6/25/06	40
Mark Wilfert	6/19/06	6/25/06	58

Equipment

Description	Mob Date	Demob Date	Hours
CAT 320CL Hoe W/Thumb	2/28/2006	6/20/2006	1145
CAT 330C Hoe #3084	3/1/2006		2,782
CAT 330C Hoe #3327	3/1/2006		1,632
FL 2000 Gal Water Truck	5/10/2006		12,476
CAT 950G Loader CO	3/17/2006		2,480
Service Truck	3/6/2006		3,270
CAT D6R LGP	5/17/2006		736
CAT D5 LGP	6/1/2006		434
CAT 246B Skidsteer	6/15/2006	6/26/2006	443
CAT 420 Backhoe	6/26/2006		781
Sterling 2000 Gal Water Truck	6/24/2006		21417

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	60%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Waiting on approval to begin Prot. Cover
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, June 19, 2006	0.00	0
Tuesday, June 20, 2006	0.00	0
Wednesday, June 21, 2006	90.00	900
Thursday, June 22, 2006	115.00	1,150
Friday, June 23, 2006	130.00	1,300
Saturday, June 24, 2006	156.00	1,560
	491.00	4,910

Weather Conditions

Temp.	86 AVG
Wind	SE 5-30mph
Precip	Trace

Other (note equipment delivery and pickup here)

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Standby began on Tuesday, June 6th. June 20th, ASARCO authorized ENTACT to begin hauling Cat I material to the repository. Began hauling Cat 1 material from Pond 6 to Repository Pond 1 on Wednesday, June 21st. Completed spraying slag pile with emulsified asphalt on Saturday, June 24th.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 6/26/2006
Week of 6-26 thru 7-2

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	6/26/06	6/28/06	40
Kirk Gates	6/28/06	7/1/06	40
Juan Carrillo	6/26/06	7/1/06	60
Jim Barker	6/26/06	6/28/06	28
Ubaldo Zubia	6/26/06	7/1/06	59.5
Jesus Chapa	6/26/06	7/1/06	60
Mitch Robinett	6/26/06	7/1/06	60
Howard Fregia	6/26/06	7/1/06	40
Miguel Hernandez	6/26/06	7/1/06	60
Mark Wilfert	6/26/06	7/1/06	60

Equipment

Description	Mob Date	Demob Date	Hours
CAT 330C Hoe #3084	3/1/2006		2,828
CAT 330C Hoe #3327	3/1/2006		1,680
FL 2000 Gal Water Truck	5/10/2006		12,576
CAT 950G Loader CO	3/17/2006		2,520
Service Truck	3/6/2006		3,876
CAT D6R LGP	5/17/2006		784
CAT D5 LGP	6/1/2006		482
CAT 420 Backhoe	6/26/2006		797
Sterling 2000 Gal Water Truck	6/24/2006		21486

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, June 26, 2006	169.00	1,690
Tuesday, June 27, 2006	171.00	1,710
Wednesday, June 28, 2006	190.00	1,900
Thursday, June 29, 2006	137.00	1,370
Friday, June 30, 2006	136.00	1,360
Saturday, July 01, 2006	119.00	1,190
	922.00	9,220

Weather Conditions

Temp.	76.5 AVG
Wind	E - SE 4.4-24mph
Precip	Trace

Other (note equipment delivery and pickup here)

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Continuing to haul Category I material from Pond 6 and stockpiled Category I material from Building to Repository Pond 1 for the protective cover over the liner. Completed placement of the 2 foot of protective cover in Repository Pond 1 on Saturday, July 1st.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 7/3/2006
Week of 7/3 to 7/9

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	7/3/06	7/8/06	58
Kirk Gates	7/3/06	7/6/06	40
Juan Carrillo	7/3/06	7/8/06	58
Dale Torress	7/5/06	7/8/06	38
Ubaldo Zubia	7/3/06	7/8/06	48
Jesus Chapa	7/3/06	7/6/06	21
Mitch Robinett	7/3/06	7/6/06	18
Howard Fregia	7/3/06	7/8/06	58
Miguel Hernandez	7/3/06	7/6/06	21
Mark Wilfert	7/3/06	7/8/06	58

Equipment

Description	Mob Date	Demob Date	Hours
CAT 330C Hoe #3084	3/1/2006		2,866
CAT 330C Hoe #3327	3/1/2006		1,694
FL 2000 Gal Water Truck	5/10/2006		12,641
CAT 950G Loader CO	3/17/2006		2,522
Service Truck	3/6/2006		4,093
CAT D6R LGP	5/17/2006		798
CAT D5 LGP	6/1/2006		517
CAT 420 Backhoe	6/26/2006		812
Sterling 2000 Gal Water Truck	6/24/2006	7/11/2006	21486

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, July 03, 2006	150.00	1,500
Tuesday, July 04, 2006	0.00	0
Wednesday, July 05, 2006	186.00	1,860
Thursday, July 06, 2006	87.00	870
Friday, July 07, 2006	119.00	1,190
Saturday, July 08, 2006	143.00	1,430
	685.00	6,850

Weather Conditions

Temp.	82.5 AVG
Wind	E - SE 5.4-25mph
Precip	0.43"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Continuing to haul Category I material from Pond 6 to Repository #1. Completed hauling Cat 1 material from Pond 6 on Thursday, July 6th. Began excavating Cat 1 from the landfill Area 11 and hauling to Repository #1 on Thursday, July 6th. Thursday activities were hauled early due to heavy rain.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 7/10/2006
Week of 7/10 to 7/16

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	7/10/06	7/16/06	58.5
Kirk Gates	7/10/06	7/16/06	58.5
Juan Carrillo	7/10/06	7/13/06	40
Dale Torress	7/10/06	7/16/06	56
Ubaldo Zubia	7/10/06	7/16/06	56
Jesus Chapa	7/10/06	7/16/06	56
Mitch Robinett	7/10/06	7/16/06	56
Howard Fregia	7/10/06	7/16/06	56
Miguel Hernandez	7/10/06	7/16/06	56
Mark Wilfert	7/10/06	7/13/06	40

Equipment

Description	Mob Date	Demob Date	Hours
CAT 330C Hoe #3084	3/1/2006		2,907
CAT 330C Hoe #3327	3/1/2006		1,779
FL 2000 Gal Water Truck	5/10/2006		12,688
CAT 950G Loader CO	3/17/2006		2,524
Service Truck	3/6/2006		4,403
CAT D6R LGP	5/17/2006		836
CAT D5 LGP	6/1/2006		556
CAT 420 Backhoe	6/26/2006		823
Fliner 3850 Gal Water Truck	7/11/2006		2704

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1&5 Completed
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13 Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
Monday, July 10, 2006	144.00	1,440
Tuesday, July 11, 2006	135.00	1,350
Wednesday, July 12, 2006	137.00	1,370
Thursday, July 13, 2006	141.00	1,410
Friday, July 14, 2006	147.00	1,470
Saturday, July 15, 2006	68.00	680
	772.00	7,720

Weather Conditions

Temp.	86.1 AVG
Wind	S-SW 5.5-30mph
Precip	0.82"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository #1. Work was stopped at 1:00PM Saturday due to severe thunderstorm.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 7/17/2006
Week of 7/17 to 7/23

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	7/17/06	7/20/06	40
Kirk Gates	7/17/06	7/23/06	63
Juan Carrillo	7/17/06	7/23/06	60
Dale Torress	7/17/06	7/23/06	60
Ubaldo Zubia	7/17/06	7/23/06	60
Jesus Chapa	7/17/06	7/23/06	60
Mitch Robinett	7/17/06	7/23/06	60
Howard Fregia	7/17/06	7/23/06	60
Miguel Hernandez	7/17/06	7/23/06	60
Mark Wilfert	7/17/06	7/23/06	52.5

Equipment

Description	Mob Date	Demob Date	Hours
CAT 330C Hoe #3084	3/1/2006		2,952
CAT 330C Hoe #3327	3/1/2006		1,806
FL 2000 Gal Water Truck	5/10/2006		12,794
CAT 950G Loader CO	3/17/2006		2,525
Service Truck	3/6/2006		4,802
CAT D6R LGP	5/17/2006		871
CAT D5 LGP	6/1/2006		603
CAT 420 Backhoe	6/26/2006		846.5
Fliner 3850 Gal Water Truck	7/11/2006		2998

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1, 5, 6 Completed (Pond 6 Completed 7/6/06)
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 9cy
Monday, July 17, 2006	153.00	1,377
Tuesday, July 18, 2006	183.00	1,647
Wednesday, July 19, 2006	177.00	1,593
Thursday, July 20, 2006	161.00	1,449
Friday, July 21, 2006	150.00	1,350
Saturday, July 22, 2006	148.00	1,332
	972.00	8,748
AREA 11 Approx. Total to Date		20,628

Weather Conditions

Temp.	86.6 AVG
Wind	W-SW 5.7-24mph
Precip	Trace

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Rain water from Saturday's storm collected in the sump area of Pond 1. Water was pumped out into mobile tank and then dumped into Asarco designated holding cell. Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository #1.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 7/24/2006
Week of 7/24 to 7/30

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	7/24/06	7/30/06	50
Kirk Gates	7/24/06	7/30/06	40
Juan Carrillo	7/24/06	7/30/06	60
Dale Torress	7/24/06	7/30/06	45
Ubaldo Zubia	7/24/06	7/30/06	60
Jesus Chapa	7/24/06	7/30/06	31
Mitch Robinett	7/24/06	7/30/06	30
Howard Fregia	7/24/06	7/30/06	60
Miguel Hernandez	7/24/06	7/30/06	31
Mark Wilfert	7/24/06	7/30/06	60

Equipment

Description	Mob Date	Demob Date	Hours
CAT 330C Hoe #3084	3/1/2006		2,996
CAT 330C Hoe #3327	3/1/2006		1,852
FL 2000 Gal Water Truck	5/10/2006		12,937
CAT 950G Loader CO	3/17/2006		2,545
Service Truck	3/6/2006		5,289
CAT D6R LGP	5/17/2006		874
CAT D5 LGP	6/1/2006		628
CAT 420 Backhoe	6/26/2006		855
Fliner 3850 Gal Water Truck	7/11/2006		3220

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1, 5, 6 Completed (Pond 6 Completed 7/6/06)
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 9cy
Monday, July 24, 2006	162.00	1,458
Tuesday, July 25, 2006	169.00	1,521
Wednesday, July 26, 2006	169.00	1,521
Thursday, July 27, 2006	169.00	1,521
Friday, July 28, 2006	0.00	0
Saturday, July 29, 2006	143.00	1,287
	812.00	7,308
AREA 11 Approx. Total to Date		27,936

Weather Conditions

Temp.	82 AVG
Wind	W-SW 5-30mph
Precip	1.92"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy

Description of Work Performed

Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository Pond 1. Rained out on Friday, no trucks hauled.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 7/31/2006
Week of 7/31 to 8/06

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	7/31/06	8/6/06	66
Kirk Gates	7/31/06	8/6/06	62
Juan Carrillo	7/31/06	8/6/06	54.5
Ubaldo Zubia	7/31/06	8/6/06	54
Jesus Chapa	7/31/06	8/6/06	54.5
Mitch Robinett	7/31/06	8/6/06	54.5
Howard Fregia	7/31/06	8/6/06	26
Miguel Hernandez	7/31/06	8/6/06	54.5
Mark Wilfert	7/31/06	8/6/06	34

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3084	3/1/2006		3,007
CAT 330C Hoe #3327	3/1/2006		1,852
FL 2000 Gal Water Truck	5/10/2006		12,937
CAT 950G Loader CO	3/17/2006		2,554
Service Truck	3/6/2006		5,531
CAT D6R LGP	5/17/2006		876
CAT D5 LGP	6/1/2006		646
CAT 420 Backhoe	6/26/2006		860
Fliner 3850 Gal Water Truck	7/11/2006		3276

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1, 5, 6 Completed (Pond 6 Completed 7/6/06)
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Thursday, August 31, 2006	55.00	495
Friday, September 01, 2006	0.00	0
Saturday, September 02, 2006	0.00	0
Sunday, September 03, 2006	0.00	0
Monday, September 04, 2006	0.00	0
Tuesday, September 05, 2006	0.00	0
	55.00	495
AREA 11 Approx. Total to Date		28,431

Weather Conditions	
Temp.	75.5 AVG
Wind	E-SE 6.9-23mph
Precip	6.0" +

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy

Description of Work Performed

Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository Pond 1. Rained out after approximately 4 hours of hauling on Monday. Flooding on Tuesday forced evacuation from the site due to Rio Grande possibly flooding Paisano Drive. Wednesday and Thursday performed Flood Control Time and Material work for Asarco. Thursday began pumping water out of Repository 1 and continued pumping all day Friday. Water from Repository was discharged in holding area designated by Asarco. Saturday performed drying activities in the bottom of the repository and worked on haul route across I-10. Heavy rain showers hit the site again Saturday evening. Sunday pumped water out of the Repository and discharged into holding area.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 8/7/2006
Week of 8/7 to 8/13

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	8/7/06	8/12/06	40
Kirk Gates	8/7/06	8/12/06	60
Juan Carrillo	8/7/06	8/12/06	34
Ubaldo Zubia	8/7/06	8/12/06	60
Jesus Chapa	8/7/06	8/12/06	60
Howard Fregia	8/7/06	8/12/06	60
Miguel Hernandez	8/7/06	8/12/06	60
Mark Wilfert	8/11/06	8/12/06	10

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3084	3/1/2006		3,053
CAT 330C Hoe #3327	3/1/2006		1,870
FL 2000 Gal Water Truck	5/10/2006		13,000
CAT 950G Loader CO	3/17/2006		2,558
Service Truck	3/6/2006		5,700
CAT D6R LGP	5/17/2006		885
CAT D5 LGP	6/1/2006		701
CAT 420 Backhoe	6/26/2006		861
Fliner 3850 Gal Water Truck	7/11/2006		3400

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1, 5, 6 Completed (Pond 6 Completed 7/6/06)
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Monday, August 07, 2006	0.00	0
Tuesday, August 08, 2006	202.00	1,818
Wednesday, August 09, 2006	192.00	1,728
Thursday, August 10, 2006	156.00	1,404
Friday, August 11, 2006	138.00	1,242
Saturday, August 12, 2006	137.00	1,233
	825.00	7,425
AREA 11 Approx. Total to Date		35,856

Weather Conditions	
Temp.	84 AVG
Wind	S-SW 5.4-29mph
Precip	Trace

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy

Description of Work Performed

Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository Pond 1. Monday, Repository Pond 1 was still too wet to get trucks in and out of cell. Worked Monday on drying material out and getting ready to haul on Tuesday. Hauled material from Area 11 Tuesday through Saturday.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 8/14/2006
Week of 8/14 to 8/20

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	8/14/06	8/20/06	50
Kirk Gates	8/14/06	8/20/06	40
Juan Carrillo	8/14/06	8/20/06	45
Ubaldo Zubia	8/14/06	8/20/06	35
Jesus Chapa	8/14/06	8/20/06	28
Howard Fregia	8/14/06	8/20/06	49
Miguel Hernandez	8/14/06	8/20/06	40
Charles McCullough	8/14/06	8/20/06	35

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3084	3/1/2006		3,084
CAT 330C Hoe #3327	3/1/2006		1,937
FL 2000 Gal Water Truck	5/10/2006		13,000
CAT 950G Loader CO	3/17/2006		2,562
Service Truck	3/6/2006		5,700
CAT D6R LGP	5/17/2006		892
CAT D5 LGP	6/1/2006		719
CAT 420 Backhoe	6/26/2006		861
Fliner 3850 Gal Water Truck	7/11/2006		3496

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1, 5, 6 Completed (Pond 6 Completed 7/6/06)
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Monday, August 21, 2006	173.00	1,557
Tuesday, August 22, 2006	161.00	1,449
Wednesday, August 23, 2006	156.00	1,404
Thursday, August 24, 2006	0.00	0
Friday, August 25, 2006	178.00	1,602
Saturday, August 26, 2006	0.00	0
	668.00	6,012
AREA 11 Approx. Total to Date		41,868

Weather Conditions	
Temp.	77 AVG
Wind	S-SW 6-29mph
Precip	1.46"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy

Description of Work Performed

Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository Pond 1. Did not haul on Thursday and Saturday due to rain storms.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 8/21/2006
Week of 8/21 to 8/27

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	8/21/06	8/27/06	60
Kirk Gates	8/21/06	8/27/06	65
Juan Carrillo	8/21/06	8/27/06	60
Ubaldo Zubia	8/21/06	8/27/06	60
Jesus Chapa	8/21/06	8/27/06	65
Howard Fregia	8/21/06	8/27/06	65
Miguel Hernandez	8/21/06	8/27/06	60
Charles McCullough	8/21/06	8/27/06	50

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3084	3/1/2006		3,115
CAT 330C Hoe #3327	3/1/2006		1,978
FL 2000 Gal Water Truck	5/10/2006		13,100
CAT 950G Loader CO	3/17/2006		2,562
Service Truck	3/6/2006		5,900
CAT D6R LGP	5/17/2006		928.2
CAT D5 LGP	6/1/2006		751
CAT 420 Backhoe	6/26/2006		861
Fliner 3850 Gal Water Truck	7/11/2006		3600

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1, 5, 6 Completed (Pond 6 Completed 7/6/06)
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Monday, August 21, 2006	179.00	1,611
Tuesday, August 22, 2006	185.00	1,665
Wednesday, August 23, 2006	188.00	1,692
Thursday, August 24, 2006	188.00	1,692
Friday, August 25, 2006	176.00	1,584
Saturday, August 26, 2006	182.00	1,638
	1,098.00	9,882
AREA 11 Approx. Total to Date		51,750

Weather Conditions	
Temp.	80 AVG
Wind	E-SE 4-21mph
Precip	0.18"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy

Description of Work Performed

Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository Pond 1. Encountering large concrete foundation blocks in western end of Area 11 excavation. Concrete is being stockpiled across from excavation area. Ran small sweeper/vacuum every morning on haul route prior to start of shift. Large sweeper/vacuum is still being worked on by Western Fleet Services.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 8/28/2006
Week of 8/28 to 9/03

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	8/28/06	8/30/06	30
Kirk Gates	8/28/06	9/1/06	56
Juan Carrillo	8/28/06	9/1/06	50
Jesus Chapa	8/28/06	9/1/06	56
Howard Fregia	8/28/06	9/1/06	56
Miguel Hernandez	8/28/06	9/1/06	50
Charles McCullough	8/28/06	9/1/06	50

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3084	3/1/2006		3,144
CAT 330C Hoe #3327	3/1/2006		2,021
FL 2000 Gal Water Truck	5/10/2006		13,200
CAT 950G Loader CO	3/17/2006		2,577
Service Truck	3/6/2006		6,900
CAT D6R LGP	5/17/2006		964
CAT D5 LGP	6/1/2006		779
CAT 420 Backhoe	6/26/2006		863
Fliner 3850 Gal Water Truck	7/11/2006		3900

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	0%	75%	Ponds 1, 5, 6 Completed (Pond 6 Completed 7/6/06)
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Monday, August 28, 2006	188.00	1,692
Tuesday, August 29, 2006	189.00	1,701
Wednesday, August 30, 2006	186.00	1,674
Thursday, August 31, 2006	56.00	504
Friday, September 01, 2006	100.00	900
Saturday, September 02, 2006	0.00	0
	719.00	6,471
AREA 11 Approx. Total to Date		56,817

Weather Conditions	
Temp.	75 AVG
Wind	N-NW 4-21mph
Precip	3.7"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy

Description of Work Performed

Continuing excavation of Category 1 Material from the landfill Area 11 and hauling to Repository Pond 1. Stopped hauling material from Area 11 after end of shift Wednesday, August 30th. On Thursday, August 31st, began hauling stockpiled material from Area 12 to Repository Pond 1. Continued hauling from Area 12 on Friday, September 1st. Approximately 1400cy (by load count) was hauled from Area 12 to the Repository. Rainstorms over the weekend resulted in water building up in the Repository.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 9/4/2006
Week of 9/04 to 9/10

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	9/4/06	9/10/06	50
Kirk Gates	9/4/06	9/10/06	50
Juan Carrillo	9/4/06	9/10/06	40
Jesus Chapa	9/4/06	9/10/06	50
Howard Fregia	9/4/06	9/10/06	50
Miguel Hernandez	9/4/06	9/10/06	50
Charles McCullough	9/4/06	9/10/06	15

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3084	3/1/2006	9/5/2006	3,150
CAT 330C Hoe #3327	3/1/2006		2,037
FL 2000 Gal Water Truck	5/10/2006		13,200
CAT 950G Loader CO	3/17/2006		2,703
Service Truck	3/6/2006		6,900
CAT D6R LGP	5/17/2006	9/11/2006	964
CAT D5 LGP	6/1/2006		793
CAT 420 Backhoe	6/26/2006		870
Fliner 3850 Gal Water Truck	7/11/2006	9/5/2006	4000

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	10%	85%	Ponds 1, 5, 6 Completed/Area 11 Not Complete/Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	0%	0%	
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Monday, September 04, 2006	0.00	0
Tuesday, September 05, 2006	0.00	0
Wednesday, September 06, 2006	0.00	0
Thursday, September 07, 2006	120.00	1,080
Friday, September 08, 2006	133.00	1,197
Saturday, September 09, 2006	156.00	1,404
	409.00	3,681
Building - Bins		6,003

Weather Conditions	
Temp.	71 AVG
Wind	S to NW 4-15mph
Precip	0.0"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy

Description of Work Performed

Monday was Labor Day holiday - no work was performed. Heavy rainfall over the weekend caused flooding inside the plant and Pond 1. Worked on pumping water out of Pond 1 using Vacuum truck on Tuesday and completed pumping on Wednesday - water was pumped into Pond 5. Pump Vacuum truck was used on Asarco Flood Control on Wednesday and Thursday. On Thursday, began to haul Category I material stockpiled inside the building and placing into Repository Pond 1.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 9/11/2006
Week of 9/11 to 9/17

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	9/11/06	9/17/06	70
Kirk Gates	9/11/06	9/17/06	70
Jesus Chapa	9/11/06	9/17/06	70
Howard Fregia	9/11/06	9/17/06	70
Miguel Hernandez	9/11/06	9/17/06	70
Charles McCullough	9/11/06	9/17/06	0

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,045
FL 2000 Gal Water Truck	5/10/2006		13,300
CAT 950G Loader CO	3/17/2006		2,720
Service Truck	3/6/2006		7,456
CAT D5 LGP	6/1/2006		850
CAT 420 Backhoe	6/26/2006		880

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	10%	85%	Ponds 1, 5, 6 Completed / Area 11 Not Complete / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Monday, September 11, 2006	153.00	1,377
Tuesday, September 12, 2006	81.00	729
Wednesday, September 13, 2006	158.00	1,422
Thursday, September 14, 2006	140.00	1,260
Friday, September 15, 2006	140.00	1,260
Saturday, September 16, 2006	100.00	900
Sunday, September 17, 2006	100.00	900
Building Bins - Total to Date Load Count		14,570

Weather Conditions	
Temp.	71 AVG
Wind	S to NW 4-15mph
Precip	0.0"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume 60,653cy / Area 12 Volume 1400cy

Description of Work Performed

Continuing to haul Category I material from the Bins Building to Repository Pond 1. It is apparent that the volume of material in the Bins Building will fit into the repository. At the time of the last interim survey on 8/24/06 - the remaining volume left to fill the repository was 27,774cy. Since that time, approximately 11,187cy of material was hauled to the repository from Area 11 before stopping, to ensure that the original contract revenue value was not exceeded, and to ensure that the material from the building would fit into the repository. Area 12 excavation was 1400cy and the material in the Bins Building is 15,615cy (excavation survey of ponds 1 & 5). Therefore, by the time we finish placing material from the Bins Building into the repository, approxiately 28,202cy will have been placed since the interim survey on 8/24/06. Surveyors completed topographic survey of Area 11 on Thursday, September 14th. Total volume of Category I material as per survey was 60,653cy.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services,LLC

Date 9/18/2006
Week of 9/18 to 9/24

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	9/18/06	9/20/06	30
Kirk Gates	9/18/06	9/20/06	40
Jesus Chapa	9/18/06	9/20/06	30
Howard Fregia	9/18/06	9/20/06	30
Miguel Hernandez	9/18/06	9/20/06	30
Charles McCullough	9/18/06	9/20/06	30

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,045
FL 2000 Gal Water Truck	5/10/2006		13,300
CAT 950G Loader CO	3/17/2006		2,720
Service Truck	3/6/2006		7,544
CAT D5 LGP	6/1/2006	9/20/2006	920
CAT 420 Backhoe	6/26/2006		880

Action Item	QTY Week(est)	Cummulative QTY (estimate)	Problem / Delays / Changes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	10%	85%	Ponds 1, 5, 6 Completed / Area 11 Not Complete / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 9cy**
Monday, September 18, 2006	157.00	1,413
Tuesday, September 19, 2006	130.00	1,170
Wednesday, September 20, 2006		0
Thursday, September 21, 2006		0
Friday, September 22, 2006		0
Saturday, September 23, 2006		0
Sunday, September 24, 2006		0
Building Bins - Total to Date Load Count		15,680

Weather Conditions	
Temp.	71 AVG
Wind	NW 3-16mph
Precip	0.05"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume 60,653cy / Area 12 Volume 1400cy

Description of Work Performed

Continuing to haul Category I material from the Bins Building to Repository Pond 1. Completed hauling Category I material from the Bins Building to Repository Pond 1 on Tuesday, September 19th. Repository Pond 1 is still not completely to grade. ENTACT met with Lairy Johnson and Walter Boyle regarding the completion of Repository Pond 1. ENTACT submitted an email on Wednesday, September 20th to Asarco regarding the situation. ENTACT's field personnel had scheduled their rotation home for the weekend. No Site Activities on September 21st through 24th.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date 9/25/2006
Week of 9/25 to 10/01

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	9/25/06	10/1/06	32
Kirk Gates	9/25/06	10/1/06	50
Jesus Chapa	9/25/06	10/1/06	32
Howard Fregia	9/25/06	10/1/06	32
Miguel Hernandez	9/25/06	10/1/06	32
Charles McCullough	9/25/06	10/1/06	0

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,058
FL 2000 Gal Water Truck	5/10/2006		13,318
CAT 950G Loader CO	3/17/2006		2,720
Service Truck	3/6/2006		7,869
CAT 420 Backhoe	6/26/2006		880

Action Item	QTY	Cummulative QTY (estimate)	Problem /
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	10%	85%	Ponds 1, 5, 6 Completed / Area 11 Not Complete / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material			Weather Conditions	
Description	**Loads**	**Qty. 9cy**	Temp.	71 AVG
Monday, September 25, 2006			Wind	NW 3-17mph
Tuesday, September 26, 2006			Precip	0.00"
Wednesday, September 27, 2006				
Thursday, September 28, 2006				
Friday, September 29, 2006				
Saturday, September 30, 2006				
Sunday, September 24, 2006				
Building Bins - Total to Date Load Count		15,680		

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume 60,653cy / Area 12 Volume 1400cy

Description of Work Performed

ENTACT did not work on Monday, September 25th - crew was traveling back to site from weekend rotation home. ENTACT submitted an email proposal letter to Asarco on Thursday, September, 28th, regarding pricing for completing the Repository Pond 1. Field activities - cleaning inside of Bins Building, Site Housekeeping, Sweeping site with Vacuum truck, utilized water truck inside facility for dust control.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date 10/2/2006
Week of 10/02 to 10/08

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	10/2/06	10/8/06	58
Kirk Gates	10/2/06	10/8/06	58
Jesus Chapa	10/2/06	10/8/06	58
Howard Fregia	10/2/06	10/8/06	58
Miguel Hernandez	10/2/06	10/8/06	58
Charles McCullough	10/2/06	10/8/06	20

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,075
FL 2000 Gal Water Truck	5/10/2006		13,523
CAT 950G Loader CO	3/17/2006		2,720
Service Truck	3/6/2006		8,064
CAT 420 Backhoe	6/26/2006		885

Action Item	QTY	Cummulative QTY (estimate)	Problem / Delays / Changes / Notes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	10%	85%	Ponds 1, 5, 6 Completed / Area 11 Not Complete / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material			Weather Conditions	
Description	**Loads**	**Qty. 9cy**	Temp.	73 AVG
Monday, September 25, 2006			Wind	S-SW 4-20mph
Tuesday, September 26, 2006			Precip	0.14" on Sat 10/7
Wednesday, September 27, 2006				
Thursday, September 28, 2006				
Friday, September 29, 2006				
Saturday, September 30, 2006				
Sunday, September 24, 2006				
Building Bins - Total to Date Load Count		15,680		

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume 60,653cy / Area 12 Volume 1400cy

Description of Work Performed

Field activities - Continuing with Site Housekeeping, utilized water truck around plant for dust control. On Tuesday, October 3rd, ENTACT received approved Change Order #3 for pushing back 2' of intermediate cover, and haul/fill repository with additional Category I material from Area 11. Recieved 2 Caterpillar D-6 bulldozers on Wednesday, October 4th, and began pushing back intermediate cover in repository 1. Continued pushing and stockpiling intermediate cover on Thursday, Friday, and Saturday. Saturday afternoon, ENTACT crew received safety training course provided by ENTACT corporate health and safety coordinator.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date 10/9/2006
Week of 10/09 to 10/15

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	10/9/06	10/12/06	40
Kirk Gates	10/9/06	10/12/06	40
Jesus Chapa	10/9/06	10/12/06	40
Howard Fregia	10/9/06	10/12/06	40
Miguel Hernandez	10/9/06	10/12/06	40
Charles McCullough	10/9/06	10/12/06	20

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,085
FL 2000 Gal Water Truck	5/10/2006		13,622
CAT 950G Loader CO	3/17/2006		2,720
Service Truck	3/6/2006		8,139
CAT 420 Backhoe	6/26/2006		921

Action Item	QTY	Cummulative QTY (estimate)	Problem / Delays / Changes / Notes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	10%	85%	Ponds 1, 5, 6 Completed / Area 11 Not Complete / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material		
Description	**Loads**	**Qty. 10cy**
AREA 11 Previous Total		62,053
Monday, October 09, 2006	0.00	
Tuesday, October 10, 2006	0.00	
Wednesday, October 11, 2006	114.00	1,140
Thursday, October 12, 2006	0.00	
Friday, October 13, 2006	0.00	
Saturday, October 14, 2006	0.00	
Area 11 - Total to Date Survey + Load Count		63,193

Weather Conditions	
Temp.	65 AVG
Wind	NW 6-17mph
Precip	0.48"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume 60,653cy / Area 12 Volume 1400cy

Description of Work Performed

Continued pushing back intermediate cover in Repository 1 - Completed stockpiling material on East side of Repository on Tuesday, October 11. Hauled concrete from Bins building into Repository 1 on Monday and Tuesday. Began hauling Category I material from Area 11 on Wednesday, October 11. Did not haul on Thursday, October 12th through Saturday, October 13th.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date 10/16/2006
Week of 10/16 to 10/22

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	10/16/06	10/21/06	60
Kirk Gates	10/16/06	10/21/06	60
Jesus Chapa	10/16/06	10/21/06	60
Miguel Hernandez	10/16/06	10/21/06	60
Charles McCullough	10/16/06	10/21/06	60

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,140
FL 2000 Gal Water Truck	5/10/2006		13,838
CAT 950G Loader CO	3/17/2006		2,720
Service Truck	3/6/2006		8,200
CAT 420 Backhoe	6/26/2006		925
CAT D6N Dozer	10/4/2006		659
CAT D6R Dozer	10/4/2006		1017

Action Item	QTY	Cummulative QTY (estimate)	Problem / Delays / Changes / Notes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	10%	95%	Ponds 1, 5, 6 Completed / Area 11 Not Complete / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material			Weather Conditions	
Description	**Loads**	**Qty. 10cy**	Temp.	61 AVG
AREA 11 Previous Total		63,193	Wind	NW 5-18mph
Monday, October 16, 2006	126.00	1,260	Precip	0.01"
Tuesday, October 17, 2006	147.00	1,470		
Wednesday, October 18, 2006	129.00	1,290		
Thursday, October 19, 2006	162.00	1,620		
Friday, October 20, 2006	180.00	1,800		
Saturday, October 21, 2006	180.00	1,800		
Area 11 - Total to Date Survey + Load Count		72,433		

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume 60,653cy / Area 12 Volume 1400cy

Description of Work Performed

Continued hauling Category I material from Area 11. Since starting back excavation in Area 11 on October 11th, through October 21st - 10,380cy have been excavated. Survey estimate to fill Repository Pond 1 is 15,000cy.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date 10/23/2006
Week of 10/23 to 10/29

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	10/23/06	10/28/06	60
Kirk Gates	10/23/06	10/28/06	0
Jesus Chapa	10/23/06	10/28/06	60
Miguel Hernandez	10/23/06	10/28/06	60
Charles McCullough	10/23/06	10/28/06	60

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,190
FL 2000 Gal Water Truck	5/10/2006		13,938
CAT 950G Loader CO	3/17/2006		2,720
Service Truck	3/6/2006		8,500
CAT 420 Backhoe	6/26/2006		925
CAT D6N Dozer	10/4/2006		703
CAT D6R Dozer	10/4/2006		1087
Bomag 120 AD Roller	10/27/2006		413

Action Item	QTY	Cummulative QTY (estimate)	Problem / Delays / Changes / Notes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	5%	100%	Ponds 1, 5, 6 Completed / Area 11 Not Complete - Approx. 15,000cy left / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material			Weather Conditions	
Description	**Loads**	**Qty. 10cy**	Temp.	59 AVG
AREA 11 Previous Total		72,433	Wind	VAR 5-28mph
Monday, October 23, 2006	179.00	1,790	Precip	0.29"
Tuesday, October 24, 2006	9.00	90		
Wednesday, October 25, 2006	182.00	1,820		
Thursday, October 26, 2006	61.00	610		
Friday, October 27, 2006	0.00	0		
Saturday, October 28, 2006	0.00	0		
Area 11 - Total to Date Survey + Load Count		76,743		

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume 60,653cy / Area 12 Volume 1400cy

Description of Work Performed

Completed hauling enough Category I material from Area 11 to finish crown on Repository Pond 1. Since starting back excavation in Area 11 on October 11th, through October 26th - 14,690cy have been excavated. There still appears to be approximately 15,000cy of potential Category I material left in Area 11. Began placement of 2' Intermediate layer over Repository Pond 1 on October 26th - utilizing Vibratory Roller to compact lifts.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date **10/30/2006** Week of 10/30 to 11/05

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	10/30/06	11/5/06	40
Kirk Gates	10/30/06	11/5/06	40
Jesus Chapa	10/30/06	11/5/06	40
Miguel Hernandez	10/30/06	11/5/06	40
Charles McCullough	10/30/06	11/5/06	40

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,200
FL 2000 Gal Water Truck	5/10/2006		13,950
CAT 950G Loader CO	3/17/2006	10/23/2006	2,720
Service Truck	3/6/2006		8,650
CAT 420 Backhoe	6/26/2006		950
CAT D6N Dozer	10/4/2006	11/3/2006	725
CAT D6R Dozer	10/4/2006		1200
Bomag 120 AD Roller	10/27/2006	11/1/2006	421

Action Item	QTY	Cummulative QTY (estimate)	Problem / Delays / Changes / Notes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile	5%	100%	Ponds 1, 5, 6 Completed / Area 11 Not Complete - Approx. 15,000cy left / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	95%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	50%	0%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material			Weather Conditions	
Description	**Loads**	**Qty. 10cy**	Temp.	58 AVG
AREA 11 Previous Total		76,743	Wind	North VAR 5-15mph
Monday, October 30, 2006	0.00	0	Precip	0.00"
Tuesday, October 31, 2006	0.00	0		
Wednesday, November 01, 2006	0.00	0		
Thursday, November 02, 2006	0.00	0		
Friday, November 03, 2006	0.00	0		
Saturday, November 04, 2006	0.00	0		
Area 11 - Total to Date Survey + Load Count		76,743		

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume & LD Count 75343cy / Area 12 Volume 1400cy - Total 76,743

Description of Work Performed

Competed placement of 2' Intermediate layer over Repository Pond 1 on October 31st - utilizing Vibratory Roller to compact lifts. Surveyors staked out location for liner anchor trench on Monday, October 30th. Began excavation of liner anchor trench around Repository 1 on Monday, October 30th. Anchor trench excavation completed on Wednesday, November 1st. Continuing with general site housekeeping and sweeping of haul roads. October Progress invoice submitted to Asarco on Friday, November 3rd.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date 11/6/2006
Week of 11/6 to 11/12

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel

Name	Start Week	Finish Week	Hours
Zeke Littlefield	11/6/06	11/12/06	68
Kirk Gates	11/6/06	11/12/06	48
William Bernard	11/6/06	11/12/06	58
Jesus Chapa	11/6/06	11/12/06	60
Miguel Hernandez	11/6/06	11/12/06	58
Charles McCullough	11/6/06	11/12/06	40

Equipment

Description	Mob Date	Demob Date	Hours
CAT 330C Hoe #3327	3/1/2006		2,213
FL 2000 Gal Water Truck	5/10/2006		14,000
Service Truck	3/6/2006		8,929
CAT 420 Backhoe	6/26/2006		990
CAT D6R Dozer	10/4/2006		1240

Action Item	QTY	Cummulative QTY (estimate)	Problem / Delays / Changes / Notes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile		100%	Ponds 1, 5, 6 Completed / Area 11 Not Complete - Approx. 15,000cy left / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	100%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	75%	75%	Placing Cat 1 material from Bins Building for final cover
8. Demobilization	0%	0%	

Material

Description	Loads	Qty. 10cy
AREA 11 Previous Total		76,743
Monday, October 30, 2006	0.00	0
Tuesday, October 31, 2006	0.00	0
Wednesday, November 01, 2006	0.00	0
Thursday, November 02, 2006	0.00	0
Friday, November 03, 2006	0.00	0
Saturday, November 04, 2006	0.00	0
Area 11 - Total to Date Survey + Load Count		76,743

Weather Conditions

Temp.	61 AVG
Wind	N-NW VAR 4-24mph
Precip	0.00"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume & LD Count 75343cy / Area 12 Volume 1400cy - Total 76,743

Description of Work Performed

Grading work performed in Area 11 to cover impacted soil. Liner Subcontractor (AEGL) mobilized on Wednesday, Nov. 8th. Liner Subcontractor was given site orientation and review of site specific Health and Safety Plan. AEGL began placement of GCL liner on Thursday, Nov 9th and completed on Saturday, Nov. 11th. The 40 mil LLDPE geomembrane layer was completed on Sunday, Nov. 12. The final geocomposite drainage layer was started on Sunday, Nov. 12, and was completed on the morning of Monday, Nov. 13th.

Completed By: Kirk Gates /

Asarco Representative:

ENTACT Services.LLC

Date 11/13/2006
Week of 11/13 to 11/19

Weekly Project Summary

Project Name: Asarco El Paso
Project Location: El Paso, TX.
Customer: Asarco
ENTACT Project #: D-1628

Personnel			
Name	**Start Week**	**Finish Week**	**Hours**
Zeke Littlefield	11/13/06	11/17/06	50
Kirk Gates	11/13/06	11/19/06	68
William Bernard	11/13/06	11/19/06	68
Jesus Chapa	11/13/06	11/19/06	68
Miguel Hernandez	11/13/06	11/19/06	68
Charles McCullough	11/13/06	11/19/06	60

Equipment			
Description	**Mob Date**	**Demob Date**	**Hours**
CAT 330C Hoe #3327	3/1/2006		2,250
FL 2000 Gal Water Truck	5/10/2006		14,000
Service Truck	3/6/2006		9,100
CAT 420 Backhoe	6/26/2006		1100
CAT D6R Dozer	10/4/2006		1280

Action Item	QTY	Cummulative QTY (estimate)	Problem / Delays / Changes / Notes
1. Mobilization	0%	100%	
2. Site preparation and setup	0%	100%	
3. Demo / Remove Structures	0%	100%	Start utility relocate 3/28/06
4. Cat 1 Excavation, Disposal, Transport, Stockpile		100%	Ponds 1, 5, 6 Completed / Area 11 Not Complete - Approx. 15,000cy left / Area 12 Complete
5. Mass Excavation, Sideslope Embankment Fill	0%	108%	(Pond 1 Complete 5/13; Pond 5 Complete 5/22)
6. Liner Construction, Subgrade Prep, 2FT Prot. Cover	0%	100%	Completed Liner Installation Pond 1 on 5/24; Completed Liner Installation Pond 5 on 5/27 - Completed 2' Protective Cover in Pond 1
7. Final Cover, 2FT Interm. Cover, 17" Soil Layer	25%	100%	Completed 17" Soil Layer
8. Demobilization	100%	100%	

Material

Description	Loads	Qty. 10cy
17" Soil Cover Layer (Overburden Pile)		
Monday, November 13, 2006	199.00	1,990
Tuesday, November 14, 2006	233.00	2,330
Wednesday, November 15, 2006	223.00	2,230
Thursday, November 16, 2006	239.00	2,390
Friday, November 17, 2006	43.00	430
Saturday, November 18, 2006	0.00	0
17" Soil Cover Layer (Overburden Pile)		9,370

Weather Conditions	
Temp.	57 AVG
Wind	N-NW VAR 4-24mph
Precip	0.00"

Other Notes

Pond 1 CAT 1 Survey Volume 11,808cy
Pond 5 CAT 1 Survey Volume 3,807cy
Pond 1 Mass Exc Survey Volume 36,620cy
Pond 1 Sideslope Embankment Survey Volume 2,789cy
Pond 5 Mass Exc Survey Volume 5,876cy
Pond 5 Sideslope Embankment Survey Volume 885cy
Pond 6 Excavation Survey Volume 12,039cy
2' Protective Cover Pond 1 Survey Volume 8,347cy
Area 11 Excavation Survey Volume & LD Count 75343cy / Area 12 Volume 1400cy - Total 76,743

Description of Work Performed

The final geocomposite drainage layer was started on Sunday, Nov. 12, and was completed on the morning of Monday, Nov. 13th. Began hauling soil from the north overburden pile for the 17" final soil layer for Repository 1. Completed hauling the 17" layer on Friday, November 17th. Performed Pre-Final Inspection with Walter Boyle (ASARCO) on Friday, November 17th and developed punch-list. Worked Saturday and Sunday performing final grading of repository cap and completing punch-list items. Monday, November 20th, ENTACT performed Final Inspection with Walter Boyle and all punch list items were accepted as complete. ENTACT began demobilizing personnel and equipment on Monday, November 20th.

Completed By: Kirk Gates /

Asarco Representative:

Appendix J Construction Progress Reports – Category I Excavation & Landfills

J.2 ENTACT 2007 Weekly Project Summaries

ENTACT

3129 Bass Pro Drive
Grapevine, TX
76051

ASARCO EL PASO

2007 REMEDIAL WASTE REPOSITORY DESIGN PROJECT ACTIVITIES

- Loaded, hauled, and placed and compacted the clean overburden soil stockpiled from the 2006 project (mass excavation of Ponds 1 & 5 to construct repositories) and placed and compacted over the Zinc Plant foundation area.
- Excavate and haul Category I material from Area 11 to the Unloading Building; Screened Category I material inside the Unloading Building; Loaded, transported and placed the screened Category I material in Repository Pond 5 and used as the 2' Protective Cover material over the entire liner surface. The oversize Category I material from the screening operation was loaded, hauled, and placed in the Bedding Building in Bin 11. Once the 2' Protective Cover was placed over the bottom liner, the oversize Category I material was loaded and hauled from Bin 11 and placed directly into Repository Pond 5.
- Excavate, load, haul, and place Category I material from the bottom and slopes in Area 12 to the Repository Pond 5. Grade Area 12 to drain towards natural drainage area to the south and existing culvert at the Union Pacific Railroad. Excavate, load, and haul clean clay material from Area 11 and place, grade, and compact approximately 1' of clay over the bottom of Area 12.
- Began processing large concrete foundations and concrete debris stockpiled in Area 11 (generated from the excavation of landfill area). A Caterpillar 325 Excavator with MP20 concrete processing attachment is being used to break the concrete to 2' diameter or less pieces. Metal and rebar contained in the concrete is being segregated into separate stockpiles. This is an ongoing process as the excavation continues in Area 11.
- Processed, stockpiled, and sampled concrete was loaded, hauled and placed in the deep ravines on the slag wall on the south side of Area 12 (between the two bridges).

- Excavate, load, haul, and place clean clay from Area 11 over the Area 12 north slag wall. Created a clay cap and slope over the slag wall and covered the concrete filled deep ravines.
- Excavated the two 1A-13 areas located on the West side of the plant (one between building and fence line and second around sump and well EP-102) and loaded, transported, and placed the Category I material in Repository Pond 5. The two areas were then backfilled utilizing the clean, stockpiled, overburden soil.
- Excavate, load, transport, and place Category I material from Area 11 directly into Repository Pond 5.
- Firewater Ditch Project – Remove wood and metal debris from the Firewater ditch; load the wood debris into roll-off boxes; segregate the metal and stockpile the metal in staging area west of the Firewater ditch. Excavate the concentrate material from the bottom of the Firewater ditch and around the Pumphouse building. Load the concentrate material and transport and place inside the Bedding Building in Bins 2 and 4. Demolished the Pumphouse building and segregated the brick, wood, and metal. Brick and wood was loaded into roll-off boxes and the metal was stockpiled in the staging area west of the Firewater ditch. Loaded and transported the stockpiled clean overburden soil and placed in the bottom of the Firewater ditch in lifts.
- Excavate and haul Category I material from Area 11 to the Unloading Building; Screened Category I material inside the Unloading Building; Loaded, transported and placed the screened Category I material in Repository Pond 5 and used as the 2' Intermediate layer material over the top of Repository Pond 5. The oversize Category I material from the screening operation was loaded, hauled, and placed in the Bedding Plant building in Bin 11. Shaped and graded the domed Intermediate layer to have positive drainage predominately towards the north-northwest away from the Asarco office buildings.
- Installed the Top Liner system over the top of the Intermediate Layer, which consisted of: Geosynthetic Clay Liner, welded 40 MIL LLDPE (Linear Low Density Polyethylene), and 8oz Geocomposite Drainage Layer.
- Load and haul the clean stockpiled overburden soil to the Unloading building and screened the soil. Loaded and transported the clean screened soil from the Unloading

building to the Repository Pond 5 and placed and compacted approximately 2' over the entire surface/liner system for the Soil Erosion Layer.

- Segregate wood, metal, and debris on the east side of the Ephemeral Pond Area. Load and transport the segregated debris, and place in existing segregated wood, metal, and debris piles located on the west side of Area 11.
- Ephemeral Pond - Load and transport the miscellaneous slag piles on the east side of the Ephemeral Pond and placed along the slag slope south of the Ephemeral Pond. Excavate and load slag along the drainage area near the Slag Fines pile and transport and place along the east side slope and upper haul road (between the two bridges) to promote better drainage. Grade the upper haul road and slope to promote drainage away from Area 12 clay slope. Install stormwater berm along upper haul road along the top of the Area 12 slope. Cut new drainage channel to direct the water flow further away from the Slag Fines pile and place the excavated material along the base of the Slag Fines pile to protect against erosion. Haul clean processed concrete from Area 11 and place the concrete in the deep undercut area of the Slag Fines pile located upstream in the existing drainage channel. Haul riprap from Area 11 and use for erosion control on the south Ephemeral Pond slope around the Gas Pipe Line Marker.

2007 Contract Budget	$2,509,074.10
Invoiced through November 30	$1, 937,110.95
Estimated December Invoice	$ 227,000.00
Remaining 2007 Budget	$ 344,963.15

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	07-23-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period of 07/16/07 – 07/22/07

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Mobilized to site on Monday, July 16. Cleaned office areas and began setting up office. Contacted equipment vendors and began procurement of operating supplies. Tuesday, July 17th, met with Alan Brutcher of Asarco and completed Asarco Contractor Safety Orientation. Continuing procurement of operating supplies. Caterpillar 972 Loader delivered. Wednesday, July 18th, met with Lairy Johnson regarding options for placement of screening unit – the Unloading Building (current location of screening unit) is actually the only option for use inside of a building. The Bins Building is being used by the residential project to store excavated soils. Began cleaning debris and stored materials from inside the Unloading Building and moving to other side of building. Made arrangements with Redburn Tire Company to replace bad tire on screening unit. Thursday, July 19th, Redburn Tire replaced bad tire on screening unit. Began work on screening unit, cleaning loading hopper, and removed oversized screens. Friday, July 20th, continuing work on screening unit and moved screen inside of building to operable location. Checked all pins, rollers, belts, oils on screener and tested operations. Caterpillar MP30 Concrete Pulverizer arrived Friday afternoon. Saturday, July 21st, completed set up of screening unit and removal of debris and materials from inside of the Unloading building. Set up exclusion zone and signs in Area 11. Elgin Pelican Sweeper arrived on-site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue mobilization of equipment to site. Establish and construct haul routes in Area 11. Set up erosion berms in Area 11. Begin breaking concrete in Area 11. Begin excavation of Category I material from Area 11, and transport to Unloading Building for screening for protective cover in Pond 5.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Jesus Chapa - Operator
Sam Moss – Field Project Manager	
Juan Carrillo - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
None during this period	

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES OR CONCERNS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	07-30-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 07/23/07 – 07/29/07
Weather:	Temp Average: 82 Rainfall Total for Week: 0.85" Month to Date Rainfall: 1.62"

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, July 23rd – began sizing of concrete in Area 11 using Cat 325 with MP30 Concrete Processing attachment. Tuesday, July 24th – Continuing sizing of concrete in Area 11 and construction storm water/erosion control berms around excavation area and haul route. Wednesday, July 25th – Continuing sizing of concrete in Area 11 and segregating rebar and metal. Completed first stockpile of concrete and moved to new stockpile. Thursday, July 26th – Continuing sizing of concrete and construction of storm water/erosion control berms in Area 11. Friday, July 27th – SLI Engineering performed topographic survey of Area 11 anticipated excavation limits. Continuing sizing of concrete and construction of storm water/erosion control berms in Area 11. Saturday, July 28th – working on screening unit – installing screens and making adjustments.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking concrete in Area 11. Begin excavation of Category I material from Area 11, and transport to Unloading Building for screening for protective cover in Pond 5.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Jesus Chapa - Operator
Sam Moss – Field Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
None during this period	

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES OR CONCERNS ARISING THIS PERIOD

On Thursday, July 26th, Emile G. Couroux of Raba Kistner delivered the Storm Drain Pollution Control Plan (pertaining to work in Area 11) to the City of El Paso Storm Water Department. Emile was told that the Plan would be reviewed no later than Monday, July 30th.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **7/28/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	7/23/07	NO
Tuesday	7/24/07	NO
Wednesday	7/25/07	NO
Thursday	7/26/07	NO
Friday	7/27/07	NO
Saturday	7/28/07	NO
Sunday	7/29/07	NO

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	7/23/07	YES
Tuesday	7/24/07	YES
Wednesday	7/25/07	YES
Thursday	7/26/07	YES
Friday	7/27/07	YES
Saturday	7/28/07	NO
Sunday	7/29/07	NO

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE July 30, 2007

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-06-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 07/30/07 – 08/05/07
Weather:	Temp Average: 80 Rainfall Total for Week: 0.56”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, July 30th – Continuing sizing of concrete in Area 11 using the Cat 325 with MP30 Concrete Processing attachment. Surveyors continuing topographic survey in Area 11, along the west end of the slope and haul road. Tuesday, July 31st – Continuing sizing of concrete in Area 11 and removing rebar and metal from processed piles. Measured processed concrete piles, 1, 2, and 3 for cubic yard volume quantities. Wednesday, August 1st - Continuing sizing of concrete in Area 11 and removing rebar and metal from processed piles. Thursday, August 2nd – Continuing sizing of concrete in Area 11 and removing rebar and metal from processed piles. Tracked D5 Dozer and 330 Excavator from Area 11 to the Zinc Plant in preparation for hauling overburden stockpiled soil which will be used to backfill the Zinc Plant foundation. Friday, August 3rd – ENTACT personnel off-site for 3 week rotation home.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking concrete in Area 11. Begin hauling overburden stockpiled soil to Zinc Plant and use for backfilling the foundation area.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Jesus Chapa - Operator
Sam Moss – Field Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
None during this period	

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES OR CONCERNS ARISING THIS PERIOD

On the afternoon of Monday, July 30th, Emile G. Couroux of Raba Kistner sent an email to Lairy Johnson (ASARCO) and Kirk Gates (ENTACT) in regards to the City of El Paso requires a Final Grading Plan for excavation areas, prior to approval of the SWP3. On the morning of Tuesday, July 31st, Kirk Gates met with Lairy Johnson regarding the Final Grading Plan for Area 11 – Mr. Johnson stated that Raba Kistner would complete the plan to submit to the City.

7.0 RESOLUTION OF ISSUES OR CONCERNS

On the morning of Wednesday, August 1st, Kirk Gates met with Lairy Johnson regarding some of the other tasks that ENTACT could perform, while waiting for the Final Grading Plan and SWP3 to be approved. Mr. Johnson stated that ENTACT could begin hauling the overburden stockpiled soil and use for backfilling the foundation area of the former Zinc Plant. The existing unit rate for Line Item E.1 - Load, Transport, and Place from Overburden Piles, will be utilized for this task and the unit of measure will be based on truck count.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **8/5/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	
Monday	7/30/07	NO	
Tuesday	7/31/07	NO	Invoice 01 (0 Days)
Wednesday	8/1/07	NO	
Thursday	8/2/07	NO	
Friday	8/3/07	NO	
Saturday	8/4/07	NO	
Sunday	8/5/07	NO	
TOTAL SCREENING DAYS TO DATE		**0**	

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO	
Monday	7/30/07	YES	
Tuesday	7/31/07	YES	Invoice 01 (7 Days)
Wednesday	8/1/07	YES	
Thursday	8/2/07	YES	
Friday	8/3/07	NO	
Saturday	8/4/07	NO	
Sunday	8/5/07	NO	
TOTAL CONCRETE DAYS AUGUST		**2**	

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE August 6, 2007

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-13-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/06/07 – 08/12/07
Weather:	Temp Average: 84 Rainfall Total for Week: 0.30”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August 6th – Continuing sizing of concrete in Area 11 using the Cat 325 with MP30 Concrete Processing attachment. Surveyors continuing topographic survey in Area 11, along the east end. Performed Asarco Contractor Orientation and Site Specific Safety Plan Orientation for F&F Trucking dump truck drivers. Began hauling soil from the “Stack” overburden stockpile and backfilling the Zinc Plant Foundation area. Utilizing two dump trucks, a total of 57 loads or 684cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant area.

Tuesday, August 7th - Continuing sizing of concrete in Area 11 using the Cat 325 with MP30 Concrete Processing attachment. Continuing hauling of soil from the “Stack” overburden stockpile to the Zinc Plant Foundation area. Utilizing two dump trucks, a total of 88 loads or 1056cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant area. Chris Nelson (ENTACT) and Kirk Gates (ENTACT) met with Lairy Johnson regarding the “Fire Water Ditch” time and material work. Kirk Gates will provide Asarco with T&M rates for personnel and equipment to perform the removal of debris and sediment from the “Fire Water Ditch”. Chris Nelson will be able to provide the equipment and personnel within the next couple of weeks to complete this work.

Wednesday, August 8th - Continuing sizing of concrete in Area 11 using the Cat 325 with MP30 Concrete Processing attachment. Continuing hauling of soil from the “Stack” overburden stockpile to the Zinc Plant Foundation area. Utilizing two dump trucks, a total of 86 loads or 1032cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant area. Lairy Johnson and Alan Brutcher met with Sam Moss (ENTACT) regarding additional areas/various levels of the Zinc Plant foundation area to be backfilled with the overburden soil. Emile Couroux (Raba Kistner) notified ENTACT that the City of El Paso also requires a Grading Plan Application fee along with proof of General Liability Insurance. Additional fee and insurance information was provided to Mr. Couroux.

Thursday, August 9th – Walked Cat 325 concrete processor from Area 11 to the Zinc Plant Foundation area and crushed approximately 65’ of concrete retaining wall along the foundation. Concrete rubble was placed in one of the vaults, then backfilled/compacted with soil. Rebar was separated from the concrete and placed outside the foundation area. Continuing hauling of soil from the “Stack” overburden stockpile to the Zinc Plant Foundation area. Utilizing four dump trucks, a total of 151 loads or 1812cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant area. Emile Couroux (Raba Kistner) notified ENTACT that he had received verbal approvals from the City of El Paso for the Storm Water Pollution Prevention

Plan and the Final Grading Plan. Mr. Couroux will pick up hardcopies of the Approved/Stamped plans from the City tomorrow.
Friday, August 10th – Utilized Cat 325 Concrete Processor to break roof section from another concrete vault in the Northeast corner of the Zinc Plant Foundation. The concrete rubble was placed in the bottom of the vault then backfilled/compacted with soil. Continuing hauling of soil from the "Stack" overburden stockpile to the Zinc Plant Foundation area. Utilizing four dump trucks, a total of 152 loads or 1824cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant area. Completed the removal of the "Stack" overburden stockpile. Received approved/stamp copy of SWP3 and Final Grading Plan.
Saturday, August 10th – Began hauling soil from the "North Pond 1" overburden pile. Utilizing four dump trucks, a total of 131 loads or 1572cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant area.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking concrete in Area 11. Continue hauling overburden stockpiled soil to Zinc Plant and use for backfilling the foundation area. Mobilize addition personnel and equipment to begin excavation/screening operation.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Jesus Chapa - Operator
Sam Moss – Field Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking	Hauling Overburden Soil from stockpiles to Zinc Plant Foundation area

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES OR CONCERNS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

The City of El Paso approved the SWP3 and the Final Grading Plans.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **8/12/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/6/07	NO
Tuesday	8/7/07	NO
Wednesday	8/8/07	NO
Thursday	8/9/07	NO
Friday	8/10/07	NO
Saturday	8/11/07	NO
Sunday	8/12/07	NO
	TOTAL SCREENING DAYS TO DATE	**0**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/6/07	YES
Tuesday	8/7/07	YES
Wednesday	8/8/07	YES
Thursday	8/9/07	YES
Friday	8/10/07	YES
Saturday	8/11/07	NO
Sunday	8/12/07	NO
	TOTAL CONCRETE DAYS AUGUST	**7**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE August 13, 2007

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6
Daily Truck Count - Line Item E. 1 - Load, Transport, Place Overburden Soil

DATE	LOADS	LOADS TTD	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TTD	Overburden Pile	Backfill Area
8/6/07	57	57	684	684	Stack	Zinc Plant
8/7/07	88	145	1056	1740	Stack	Zinc Plant
8/8/07	86	231	1032	2772	Stack	Zinc Plant
8/9/07	151	382	1812	4584	Stack	Zinc Plant
8/10/07	152	534	1824	6408	Stack	Zinc Plant
8/11/07	131	665	1572	7980	North Pond 1	Zinc Plant

TOTAL CUBIC YARDS LOADED/TRANSPORTED/PLACED 7980

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-20-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/13/07 – 08/19/07
Weather:	Temp Average: 85 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August 13th – Continuing breaking concrete in the Zinc Plant Foundation Area. Continuing to haul material from the N. Pond 1 Overburden Stockpile to the Zinc Plant Foundation Area. Utilizing four dump trucks, a total of 152 loads or 1824cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant Area. Lairy Johnson met with Sam Moss and showed Sam how he wanted the drainage and stopping points for the Zinc Plant Area. Performed orientation (Asarco and ENTACT Site Safety Plan) for new ENTACT operator.

Tuesday, August 14th - Continuing breaking of concrete in the Zinc Plant Foundation Area. Completed breaking concrete in the Zinc Plant Area, then walked the Cat 325 Concrete Processor back to Area 11 and resumed breaking 4th stockpile of concrete along the north edge of excavation slope area. Continuing to haul material from the N. Pond 1 Overburden Stockpile to the Zinc Plant Foundation Area. Utilizing four dump trucks, a total of 130 loads or 1560cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant Area.

Wednesday, August 15th - Continuing to haul material from the N. Pond 1 Overburden Stockpile to the Zinc Plant Foundation Area. Utilizing four dump trucks, a total of 130 loads or 1560cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant Area. Continuing to break concrete in Area 11 – 4th stockpile of concrete along the north slope of excavation area. Continuing to sort rebar and metal from processed concrete.

Thursday, August 16th - Continuing to haul material from the N. Pond 1 Overburden Stockpile to the Zinc Plant Foundation Area. Utilizing four dump trucks, a total of 80 loads or 960cy (@12cy/load) was loaded, hauled, and placed in the Zinc Plant area. Continuing to break concrete in Area 11 – 4th stockpile of concrete along the north slope of excavation area. Continuing to sort rebar and metal from processed concrete. Began excavation of Category I material in Area 11. A total of 5 loads were excavated and hauled to the Screener Building prior to end of shift. Experienced some technical difficulties trying to get material to run through screening unit. Will require reconfiguration of unit and rerouting of hydraulic lines and belts.

Friday, August 17th – Completed backfilling the Zinc Plant Foundation Area. A total of 8 loads were hauled from the North Pond 1 Overburden Stockpile. The trucks were cut off at 10:30am in order to continue working on the screener unit. Wagner Equipment delivered Caterpillar D6R Dozer to be used in Area 11. Continuing to break concrete in Area 11 – 4th stockpile of concrete along the north slope of excavation area. Continuing to sort rebar and metal from processed concrete.

Saturday, August 18th – Worked on screening unit: reconfigured discharge belt for oversize material, installed belts on shaker, and disabled secondary oversize belt.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking concrete in Area 11. Resume excavation of Area 11 and screening of Category I material. Begin placement of screened Protective Layer in Pond 5.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Jesus Chapa - Operator
Sam Moss – Field Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Lloyd Evans - Operator

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking	Hauling Overburden Soil from stockpiles to Zinc Plant Foundation area/Began Hauling Cat I material from Area 11 to Screener

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES OR CONCERNS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **8/19/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/13/07	NO
Tuesday	8/14/07	NO
Wednesday	8/15/07	NO
Thursday	8/16/07	NO
Friday	8/17/07	NO
Saturday	8/18/07	NO
Sunday	8/19/07	NO
TOTAL SCREENING DAYS TO DATE		**0**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/13/07	YES
Tuesday	8/14/07	YES
Wednesday	8/15/07	YES
Thursday	8/16/07	YES
Friday	8/17/07	YES
Saturday	8/18/07	NO
Sunday	8/19/07	NO
TOTAL CONCRETE DAYS AUGUST		**12**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE August 20, 2007

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6
Daily Truck Count - Line Item E. 1 - Load, Transport, Place Overburden Soil

DATE	LOADS	LOADS TTD	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TTD	Overburden Pile	Backfill Area
8/6/07	57	57	684	684	Stack	Zinc Plant
8/7/07	88	145	1056	1740	Stack	Zinc Plant
8/8/07	86	231	1032	2772	Stack	Zinc Plant
8/9/07	151	382	1812	4584	Stack	Zinc Plant
8/10/07	152	534	1824	6408	Stack	Zinc Plant
8/11/07	131	131	1572	1572	North Pond 1	Zinc Plant
8/13/07	152	283	1824	3396	North Pond 1	Zinc Plant
8/14/07	130	413	1560	4956	North Pond 1	Zinc Plant
8/15/07	130	543	1560	6516	North Pond 1	Zinc Plant
8/16/07	80	623	960	7476	North Pond 1	Zinc Plant
8/17/07	8	631	96	7572	North Pond 1	Zinc Plant
8/18/07	0					

TOTAL CUBIC YARDS LOADED/TRANSPORTED/PLACED 13,980

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TTD	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TTD	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/17/07	0	5	0	60	AREA 11

TOTAL CUBIC YARDS EXCAVATE/TRANSPORT/PLACED **60**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-27-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/20/07 – 08/26/07
Weather:	Temp Average: 86 Rainfall Total for Week: 1.50”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August 20th – Continuing to break concrete in Area 11 – completed 4th stockpile of concrete along the north slope of excavation area and began on the 5th stockpile. Continuing to sort rebar and metal from processed concrete. Began excavation in Area 11 and hauling to screener. Began screening Cat 1 material and stockpiling screened material inside of Unloading Building. Orientation performed on two new Entact associates.

Tuesday, August 21st – Approximately 1” of rain overnight. Continuing to break 5th concrete stockpile in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation of Cat 1 material from Area 11 and hauling to screening unit. Began hauling screened Cat 1 from Unloading building to Pond 5 for the 2’ Protective Cover. Began hauling oversize Cat 1 material to Bin 11 in the Bins Building.

Wednesday, August 22nd - Continuing to break 5th concrete stockpile in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation of Cat 1 material from Area 11 and hauling to screening unit. Continuing hauling screened Cat 1 from Unloading building to Pond 5 for the 2’ Protective Cover. Continuing hauling oversize Cat 1 material to Bin 11 in the Bins Building. Vibratory Compactor used over entire Zinc Plant backfill area.

Thursday, August 23rd - Continuing to break 5th concrete stockpile in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation of Cat 1 material from Area 11 and hauling to screening unit. Continuing hauling screened Cat 1 from Unloading building to Pond 5 for the 2’ Protective Cover. Continuing hauling oversize Cat 1 material to Bin 11 in the Bins Building. Completed compaction of backfill and clean up around concrete pilings in Zinc Plant Area. Orientation performed on new Entact associate and F&F truck driver.

Friday, August 24th - Continuing to break 5th concrete stockpile in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation of Cat 1 material from Area 11 and hauling to screening unit. Continuing hauling screened Cat 1 from Unloading building to Pond 5 for the 2’ Protective Cover. Continuing hauling oversize Cat 1 material to Bin 11 in the Bins Building. Installed new broom on

Elgin Pelican Sweeper and began cleaning of haul route and bridges. Stopped work at 3:00pm due to lightning and hail storm.

Saturday, August 25th - Continuing to break 5th concrete stockpile in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation of Cat 1 material from Area 11 and hauling to screening unit. Continuing hauling screened Cat 1 from Unloading building to Pond 5 for the 2' Protective Cover. Continuing hauling oversize Cat 1 material to Bin 11 in the Bins Building. Elgin Pelican Sweeper used for cleaning of haul route and bridges.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking concrete in Area 11. Continue excavation of Area 11 and screening of Category I material. Continue placement of screened Protective Layer in Pond 5.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Charles Gibbs – Field Tech
Jesus Chapa - Operator	
Lloyd Evans - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking	Hauling Cat I material from Area 11 to Screener/Hauling Screen Cat 1 Material to Pond 5/Hauling Oversize Material from Screen to Bin 11

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES OR CONCERNS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **8/26/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	8/20/07	N/A
Tuesday	8/21/07	N/A
Wednesday	8/22/07	N/A
Thursday	8/23/07	N/A
Friday	8/24/07	From Screening Building to Area 11 & Bridges
Saturday	8/25/07	From Screening Building to Area 11 & Bridges / Guard Shack to Asarco Office
Sunday	8/26/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE August 27, 2007

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **8/26/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/20/07	YES
Tuesday	8/21/07	YES
Wednesday	8/22/07	YES
Thursday	8/23/07	YES
Friday	8/24/07	YES
Saturday	8/25/07	YES
Sunday	8/26/07	NO
	TOTAL SCREENING DAYS AUGUST	**6**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/20/07	YES
Tuesday	8/21/07	YES
Wednesday	8/22/07	YES
Thursday	8/23/07	YES
Friday	8/24/07	YES
Saturday	8/25/07	YES
Sunday	8/26/07	NO
	TOTAL CONCRETE DAYS AUGUST	**18**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE August 27, 2007

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1224	AREA 11
8/23/07	40	142	480	1704	AREA 11
8/24/07	45	187	540	2244	AREA 11
8/25/07	25	212	300	2544	AREA 11

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED TO SCREEN **2544**

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.1.1 - Load & Transport 2' Protective Cover from Screen & C.6 - Placement 2' Protective Cover

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	REPOSITORY
8/20/07	0	0	0	0	Pond 5
8/21/07	25	25	300	300	Pond 5
8/22/07	28	53	336	636	Pond 5
8/23/07	35	88	420	1056	Pond 5
8/24/07	26	114	312	1368	Pond 5
8/25/07	23	137	276	1644	Pond 5

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **1644**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-04-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/27/07 – 09/02/07
Weather:	Temp Average: 83 Rainfall Total for Week: 0.26”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August 27th – Continuing to break concrete in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation in Area 11 and hauling to screener. Continuing screening Cat 1 material and transporting screened material to Repository Pond 5 for Protective Cover. Continuing to haul oversize Cat 1 material to Bin 11 in the Bins Building.

Tuesday, August 28th – Continuing to break concrete in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation in Area 11 and hauling to screener. Continuing screening Cat 1 material and transporting screened material to Repository Pond 5 for Protective Cover. Continuing to haul oversize Cat 1 material to Bin 11 in the Bins Building. Kirk Gates, Sam Moss, Chris Nelson (ENTACT) met with Lairy Johnson and Walter Boyle regarding proposal for installation of 60” storm drain pipe.

Wednesday, August 29th - Continuing to break concrete in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation in Area 11 and hauling to screener. Continuing screening Cat 1 material and transporting screened material to Repository Pond 5 for Protective Cover. Continuing to haul oversize Cat 1 material to Bin 11 in the Bins Building.

Thursday, August 30th - Continuing to break concrete in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation in Area 11 and hauling to screener. Continuing screening Cat 1 material and transporting screened material to Repository Pond 5 for Protective Cover. Continuing to haul oversize Cat 1 material to Bin 11 in the Bins Building. Lairy Johnson and Walter Boyle spoke with Kirk Gates regarding completion of Area 12 and proposal for grading Area 12 and the area on the opposite side of the bridge to drain toward the storm drain ditch.

Friday, August 31st – 1 month Rotation trip home for entire crew.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking concrete in Area 11. Continue excavation of Area 11 and screening of Category I material. Continue placement of screened Protective Layer in Pond 5.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Charles Gibbs – Field Tech
Jesus Chapa - Operator	
Lloyd Evans - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking	Hauling Cat I material from Area 11 to Screener/Hauling Screen Cat 1 Material to Pond 5/Hauling Oversize Material from Screen to Bin 11

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES OR CONCERNS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1224	AREA 11
8/23/07	40	142	480	1704	AREA 11
8/24/07	45	187	540	2244	AREA 11
8/25/07	25	212	300	2544	AREA 11
8/27/07	47	259	564	3108	AREA 11
8/28/07	37	296	444	3552	AREA 11
8/29/07	30	326	360	3912	AREA 11
8/30/07	12	338	144	4056	AREA 11

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED TO SCREEN **4056**

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.1.1 - Load & Transport 2' Protective Cover from Screen & C.6 - Placement 2' Protective Cover

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	REPOSITORY
8/20/07	0	0	0	0	Pond 5
8/21/07	25	25	300	300	Pond 5
8/22/07	28	53	336	636	Pond 5
8/23/07	35	88	420	1056	Pond 5
8/24/07	26	114	312	1368	Pond 5
8/25/07	23	137	276	1644	Pond 5
8/27/07	27	164	324	1968	Pond 5
8/28/07	48	212	576	2544	Pond 5
8/29/07	21	233	252	2796	Pond 5
8/30/07	18	251	216	3012	Pond 5

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **3012**

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **9/2/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/27/07	YES
Tuesday	8/28/07	YES
Wednesday	8/29/07	YES
Thursday	8/30/07	YES
Friday	8/31/07	NO
Saturday	9/1/07	NO
Sunday	9/2/07	NO
	TOTAL SCREENING DAYS AUGUST	**10**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	8/27/07	YES
Tuesday	8/28/07	YES
Wednesday	8/29/07	YES
Thursday	8/30/07	YES
Friday	8/31/07	NO
Saturday	9/1/07	NO
Sunday	9/2/07	NO
	TOTAL CONCRETE DAYS AUGUST	**22**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 4, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **9/2/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	8/27/07	From Screening Building to Area 11 & Bridges
Tuesday	8/28/07	From Screening Building to Area 11 & Bridges
Wednesday	8/29/07	N/A
Thursday	8/30/07	N/A
Friday	8/31/07	N/A
Saturday	9/1/07	N/A
Sunday	9/2/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 4, 2007

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-11-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/03/07 – 09/09/07
Weather:	Temp Average: 79 Rainfall Total for Week: 0.20”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 3rd – Labor Day Holiday

Tuesday, September 4th – Mobilize back to site. Continuing excavation in Area 11 and hauling to screener. Continuing screening Cat 1 material and transporting screened material to Repository Pond 5 for Protective Cover. Continuing to haul oversize Cat 1 material to Bin 11 in the Bins Building.

Wednesday, September 5th - Continuing excavation in Area 11 and hauling to screener. Continuing screening Cat 1 material and transporting screened material to Repository Pond 5 for Protective Cover. Continuing to haul oversize Cat 1 material to Bin 11 in the Bins Building. The Elgin Pelican sweeper was used to clean the haul roads. Met with Lairy Johnson regarding the additional excavation work in Area 12 and grading areas to drain toward existing culvert at railroad tracks. Reinforced excavation berms in Area 11 in anticipation of heavy rains.

Thursday, September 6th - Continuing to break concrete in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation in Area 11 and hauling to screener. Continuing screening Cat 1 material and transporting screened material to Repository Pond 5 for Protective Cover. Continuing to haul oversize Cat 1 material to Bin 11 in the Bins Building. The Elgin Pelican sweeper was used to clean the haul roads. The screen broke on screening unit. Alan Brutcher helped look to find another screen to fit the screening unit, but was unable to find one. Kirk Gates ordered two new screens from PowerScreen which will be delivered to the site next Tuesday.

Friday, September 7th – Continuing to break concrete in Area 11. Continuing to sort rebar and metal from processed concrete. Relocated processed concrete from the far lower east end, to a clean area at the base of the excavated slope. Continuing excavation in Area 11 at the far east end. Hauling the Cat 1 material directly into Pond 5 at the south end of the Pond where the 2’ Protective Cover is in place. The Elgin Pelican sweeper was used to clean the haul roads. Maintenance and repairs to the screening unit performed (splicing belts, removed broken screen, greasing unit). Met with representatives from Qwest Communications and Level 3 Communications, who both have fiber optic lines running under the bridge in the Union Pacific Railroad right of way (along the east side of the tracks where the drainage work will be performed). Both companies will mark their lines by Monday or Tuesday of next week.

Saturday, September 8th - Continuing to break concrete in Area 11. Continuing to sort rebar and metal from processed concrete. Continuing excavation in Area 11 at the far east end, and completed excavation by the end of the shift. Hauling the Cat 1 material directly into Pond 5 at the south end of the Pond where the 2' Protective Cover is in place. Hauled 3 loads of screened material from the screening building to the northwest side of Pond 5 for the 2' Protective Cover. The Elgin Pelican sweeper was used to clean the haul roads. Continuing maintenance and repairs to the screening unit.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking concrete in Area 11. Begin excavation of remaining Cat 1 material in Area 12 and drainage work in Area 12 and the Ephemeral Pond.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Charles Gibbs – Field Tech
Jesus Chapa - Operator	
Lloyd Evans - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking	Hauling Cat I material from Area 11 to Screener/Hauling Screen Cat 1 Material to Pond 5/Hauling Oversize Material from Screen to Bin 11

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **9/9/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	9/3/07	Labor Day Holiday - N/A
Tuesday	9/4/07	From Screening Building to Area 11 & Bridges. Flat Tire in the PM replaced on Sweeper
Wednesday	9/5/07	From Screening Building to Area 11 & Bridges
Thursday	9/6/07	From Screening Building to Area 11 & Bridges
Friday	9/7/07	From Screening Building to Area 11 & Bridges
Saturday	9/8/07	From Screening Building to Area 11 & Bridges
Sunday	9/9/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 10, 2007

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **9/9/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/3/07	NO
Tuesday	9/4/07	YES
Wednesday	9/5/07	YES
Thursday	9/6/07	YES
Friday	9/7/07	NO
Saturday	9/8/07	NO
Sunday	9/9/07	NO
TOTAL SCREENING DAYS SEPTEMBER		**3**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/3/07	NO
Tuesday	9/4/07	NO
Wednesday	9/5/07	NO
Thursday	9/6/07	YES
Friday	9/7/07	YES
Saturday	9/8/07	YES
Sunday	9/9/07	NO
TOTAL CONCRETE DAYS SEPTEMBER		**3**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 10, 2007

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1224	AREA 11
8/23/07	40	142	480	1704	AREA 11
8/24/07	45	187	540	2244	AREA 11
8/25/07	25	212	300	2544	AREA 11
8/27/07	47	259	564	3108	AREA 11
8/28/07	37	296	444	3552	AREA 11
8/29/07	30	326	360	3912	AREA 11
8/30/07	12	338	144	4056	AREA 11
9/4/07	22	360	264	4320	AREA 11
9/5/07	34	394	408	4728	AREA 11
9/6/07	38	432	456	5184	AREA 11
9/7/07	70	502	840	6024	AREA 11
9/8/07	45	547	540	6564	AREA 11

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED TO SCREEN **6564**

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.1.1 - Load & Transport 2' Protective Cover from Screen & C.6 - Placement 2' Protective Cover

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	REPOSITORY
8/20/07	0	0	0	0	Pond 5
8/21/07	25	25	300	300	Pond 5
8/22/07	28	53	336	636	Pond 5
8/23/07	35	88	420	1056	Pond 5
8/24/07	26	114	312	1368	Pond 5
8/25/07	23	137	276	1644	Pond 5
8/27/07	27	164	324	1968	Pond 5
8/28/07	48	212	576	2544	Pond 5
8/29/07	21	233	252	2796	Pond 5
8/30/07	18	251	216	3012	Pond 5
9/4/07	4	255	48	3060	Pond 5
9/5/07	17	272	204	3264	Pond 5
9/6/07	27	299	324	3588	Pond 5
9/7/07	0	299	0	3588	Pond 5
9/8/07	3	302	36	3624	Pond 5

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **3624**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-17-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/10/07 – 09/16/07
Weather:	Temp Average: 75 Rainfall Total for Week: 1.30”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 10th – Building haul road under Asarco Bridge, next to Union Pacific Railroad tracks, in preparation for the excavation work in Area 12. A Union Pacific police agent informed ENTACT to stop work until the Union Pacific Track Maintenance Manager evaluate procedures. Larry Caston (Union Pacific Track Maintenance Manager) arrived on-site at approximately 9:40am, and evaluated what work ENTACT was doing and the procedures ENTACT was using (ENTACT had two flagmen watching for trains and radio communication with drivers and operators). Mr. Caston determined that ENTACT could let the trucks run under the bridge in order to complete the excavation work in Area 12. He stated that the necessary paperwork would need to be filled out before the drainage/grading work under the bridge, next to their track could be performed. ENTACT worked on setting up a meeting between Asarco and Mr. Caston to discuss the drainage/grading work. Began excavation of Cat 1 material from Area 12 and hauled directly to Pond 5 at the south end of the cell where the 2’ Protective Layer was in place. Utilizing compactor on lifts of Cat 1 material in Pond 5. The Elgin Pelican sweeper was used to clean the haul roads from Area 12 to Pond 5 and from the Screening building to Pond 5. Continuing repairs to conveyor belt on Screening Unit. El Paso Natural Gas and Texas Gas Services were both on-site to mark where gas lines are in the vicinity of Area 12. The Texas Gas Service line is farther south of Area 12. The El Paso Natural Gas line runs through Area 12 and the Ephemeral Pond – but it is not within the excavation area.

Tuesday, September 11th – The site received 1.30” of rain overnight and early morning. No hauling from Area 12 was performed due to wet conditions. Used bulldozer and excavator in Area 12 to repair haul road and area so trucks could run tomorrow. Continuing splicing repairs to conveyor belt on Screening Unit. Late in the afternoon, the new screens and rubber pad material for the Screening Unit was delivered to the site. Left messages with Larry Caston of Union Pacific regarding a meeting with ASARCO.

Wednesday, September 12th – Continued excavation of Cat 1 material in Area 12 and hauling to Pond 5. Utilizing compactor on lifts of Cat 1 material in Pond 5. Installed new screen and rubber shock pads on Screening Unit and adjusted the conveyor belts. Switched back to hauling from Area 12 to the Screening Unit and hauling screened material to Pond 5 to continue placement of 2’ Protective Cover. Continued hauling oversize material from Screening Unit to Bin 11. The Elgin Pelican sweeper was used

to clean the haul roads from Area 12 to Pond 5 and from the Screening building to Pond 5. Contacted Larry Caston of Union Pacific and set up meeting for Thursday morning.

Thursday, September 13th – Lairy Johnson (ASARCO) and Kirk Gates (ENTACT) met with Larry Caston of Union Pacific regarding the drainage work along the Union Pacific rail line on the east side of the ASARCO property. Lairy Johnson informed Mr. Caston that ENTACT is prepared to perform this work in order to improve the drainage in this area, and to help prevent the rail line from flooding. Mr. Caston agreed to allow ENTACT to work within the railroad right of way and he will make arrangements for a Union Pacific flagman to be on-site when the work is being performed. Mr. Caston stated he would need a day's advance notice prior to performing the work in order to have the flagman available. ENTACT will also give the fiber optic companies a day's advance notice in order for them to make arrangements to be on-site while the work is performed in the right of way. Lairy Johnson also spoke with Mr. Caston regarding ASARCO cleaning the sediment from the existing drain pipe under the tracks in this area. Mr. Caston stated that ASARCO could perform this work also. Mr. Caston gave Lairy Johnson his email address (lgcaston@up.com) and a contact name and number (Mark Sorenson 402-544-8560) in regards to the procedures to open back up the ASARCO spur line into the plant.

Continued excavation of Cat 1 material from Area 12 and hauling to the Screening Unit. Continued hauling screened material from the Screening Unit to Pond 5 for the 2' Protective Layer. The Screening Unit went down again due to torn conveyor belt. The belt has been spliced together on numerous occasions due to the worn condition of the belt prior to ENTACT using the Screening Unit. ENTACT will need to order a new belt in order to continue screening operation. ENTACT began trying to put the worn belt back together with remaining splice kits and wire. Hauled oversize material from the Screening Unit to Bin 11. Switched to hauling Cat 1 material from Area 12 directly into Pond 5 where the 2' Protective Layer is already in place. Utilizing compactor on lifts of Cat 1 material in Pond 5. Additional parts and side broom was installed on the Elgin Pelican sweeper.

Friday, September 14th – Continuing splicing work on the conveyor belt for the Screening Unit. Continuing to excavate Cat 1 material from Area 12 and haul directly to Pond 5. Utilizing compactor on lifts of Cat 1 material in Pond 5. Work was completed to piece the conveyor belt back together on the Screening Unit, therefore the trucks hauled from Area 12 to the Screener. Hauled screened material from the Screening Unit to Pond 5. Hauled oversize material from Screening Unit to Bin 11. The Elgin Pelican sweeper was used to clean the haul roads from Area 12 to Pond 5 and from the Screening building to Pond 5.

Saturday, September 15th – Saturday morning prior to beginning work in Pond 5, the dozer operator noticed water coming up through the pavement just south of Pond 5 in the roadway and ENTACT notified the security guards. Continued hauling Cat 1 material from Area 12 to the Screening Unit. Continued hauling the screened material to Pond 5 for the 2' Protective Layer. The decon/wash pad north of the Security Building was cleaned.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking of concrete in Area 11. Complete 2' Protective Cover in Pond 5. Continue excavation of Cat 1 material in Area 11 and hauling to Pond 5.

4.0 PROJECT PERSONNEL/EQUIPMENT ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Charles Gibbs – Field Tech
Jesus Chapa - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling Cat I material from Area 12 to Screener/Hauling Screened Cat 1 Material to Pond 5/Hauling Oversize Material from Screen to Bin 11

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

See Thursday September 13th for notes on meeting with Union Pacific representative regarding working within their right of way.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **9/16/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/10/07	NO
Tuesday	9/11/07	NO
Wednesday	9/12/07	YES
Thursday	9/13/07	YES
Friday	9/14/07	YES
Saturday	9/15/07	YES
Sunday	9/16/07	NO
TOTAL SCREENING DAYS SEPTEMBER		**7**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/10/07	NO
Tuesday	9/11/07	NO
Wednesday	9/12/07	NO
Thursday	9/13/07	NO
Friday	9/14/07	NO
Saturday	9/15/07	NO
Sunday	9/16/07	NO
TOTAL CONCRETE DAYS SEPTEMBER		**3**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 17, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **9/16/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	9/10/07	From Screening Building to Area 12 including first bridge.
Tuesday	9/11/07	Heavy rains overnight and in morning - did not haul material.
Wednesday	9/12/07	From Screening Building to Area 12 including first bridge.
Thursday	9/13/07	From Screening Building to Area 12 including first bridge.
Friday	9/14/07	From Screening Building to Area 12 including first bridge.
Saturday	9/15/07	From Screening Building to Area 12 including first bridge.
Sunday	9/16/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 17, 2007

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
9/10/07	59	59	708	708	AREA 12
9/11/07	0	59	0	708	AREA 12
9/12/07	58	117	696	1404	AREA 12
9/13/07	42	159	504	1908	AREA 12
9/14/07	57	216	684	2592	AREA 12
9/15/07	39	255	468	3060	AREA 12

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED TO POND 5 **3060**

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.1.1 - Load & Transport 2' Protective Cover from Screen & C.6 - Placement 2' Protective Cover

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	REPOSITORY
8/20/07	0	0	0	0	Pond 5
8/21/07	25	25	262.5	262.5	Pond 5
8/22/07	28	53	294	556.5	Pond 5
8/23/07	35	88	367.5	924	Pond 5
8/24/07	26	114	273	1197	Pond 5
8/25/07	23	137	241.5	1438.5	Pond 5
8/27/07	27	164	283.5	1722	Pond 5
8/28/07	48	212	504	2226	Pond 5
8/29/07	21	233	220.5	2446.5	Pond 5
8/30/07	18	251	189	2635.5	Pond 5
9/4/07	4	255	42	2677.5	Pond 5
9/5/07	17	272	178.5	2856	Pond 5
9/6/07	27	299	283.5	3139.5	Pond 5
9/7/07	0	299	0	3139.5	Pond 5
9/8/07	3	302	31.5	3171	Pond 5
9/10/07	0	302	0	3171	Pond 5
9/11/07	0	302	0	3171	Pond 5
9/12/07	5	307	52.5	3223.5	Pond 5
9/13/07	24	331	252	3475.5	Pond 5
9/14/07	8	339	84	3559.5	Pond 5
9/15/07	24	363	252	3811.5	Pond 5

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 3811.5

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-24-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/17/07 – 09/23/07
Weather:	Temp Average: 77 Rainfall Total for Week: 0.02”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 17th – Continued excavation of Cat 1 material from Area 12 and hauling to the Screening Unit. Utilizing 2 train spotters for trucks entering the Union Pacific right of way. Continued hauling screened material from the Screening Unit to Pond 5 for the 2’ Protective Layer. Continued to haul oversize material from the Screening Unit to Bin 11. The Elgin Pelican sweeper was used to clean the haul roads from Area 12 to the Screening building. Utilizing water truck in Area 12 and haul roads for dust control.

Tuesday, September 18th – Continued excavation of Cat 1 material from Area 12 and hauling to the Screening Unit. Utilizing 2 train spotters for trucks entering the Union Pacific right of way. Continued hauling screened material from the Screening Unit to Pond 5 for the 2’ Protective Layer. Continued to haul oversize material from the Screening Unit to Bin 11. The Elgin Pelican sweeper was used to clean the haul roads from Area 12 to the Screening building. Utilizing water truck in Area 12 and haul roads for dust control. Left message for Larry Caston of Union Pacific regarding starting the grading work in the railroad right of way on Thursday morning.

Began Firewater Ditch project – created entry into ditch for small equipment. Excavator with grapple attachment delivered. Began loading debris and wood from Firewater ditch into roll-off boxes.

Wednesday, September 19th – Completed excavation of Cat 1 material from Area 12 and hauling to the Screening Unit. Began grading and drainage work in Area 12. Continued to haul screened material from the Screening Unit to Pond 5 for the 2’ Protective Layer. A set of rollers under the main conveyor belt on the Powerscreen are completely worn – a new set of rollers was ordered. Continued to haul oversize material from the Screening Unit to Bin 11. The Elgin Pelican sweeper was used to clean the haul roads from Area 12 to the Screening building. Utilizing water truck in Area 12 and haul roads for dust control. Contacted Larry Caston of Union Pacific regarding the grading work in the railroad right of way, and made arrangements for the Union Pacific flagman to be on-site Thursday at 8:00am.

Continuing Firewater Ditch project – Continuing to consolidate debris and load into roll-off boxes.

Thursday, September 20th – 8:30am, met with Qwest, Level 3 Communications, and Union Pacific Flagman regarding the grading work in the Union Pacific right of way, underneath the Asarco Bridge. Used a mini-excavator to dig next to fiber optic location mark to visually confirm the location of fiber optic line and accuracy of depth information. Exposed the fiber optic line on the north and south sides of the bridge – line was marked accurately and depth information was correct – north side of bridge the line was approximately 6' deep and the south side of the bridge the line was approximately 5' deep. A yellow marker ribbon is located approximately 2' above the fiber optic line. A drainage swell was cut from the Ephemeral Pond to the south side of the Asarco Bridge in order to get the area to drain towards the existing culvert. Resumed excavation of Cat 1 material in Area 11 and hauling to the screening unit. Began encountering large concrete foundation blocks in the excavation area. Screened material was hauled to Pond 5 for the 2' Protective Layer. Continued to haul oversize material from the Screening Unit to Bin 11. The Elgin Pelican sweeper was used to clean the haul roads from Area 11 to the Screening building. Utilizing water truck in Area 11 and haul roads for dust control.

Continuing Firewater Ditch project – began hauling concentrate material from the ditch to Bin #2 in the Bins Building. Continuing to load debris into roll-off boxes.

Friday, September 21st – Continuing to haul Cat 1 material from Area 11 to the screening unit. Segregating large concrete blocks from the excavation of Area 11. Screened material was hauled to Pond 5 for the 2' Protective Layer. Continued to haul oversize material from the Screening Unit to Bin 11. The Elgin Pelican sweeper was used to clean the haul roads from Area 11 to the Screening building. Utilizing water truck in Area 11 and haul roads for dust control. Continuing grading work in the bottom of Area 12. As per conversation with ASARCO, ENTACT will utilize clean material located at the east end of Area 11 to be used for backfilling the bottom of Area 12. Approximately 6" of clean material will be used to cover the bottom of Area 12.

Continuing Firewater Ditch project – hauling concentrate material from the ditch to Bin #2 and continuing to load debris in roll-off boxes. A loader was delivered in order to begin loading clean backfill (overburden pile located north of Pond 1) into haul trucks to backfill the main channel. Two dump trucks were used to begin hauling backfill to the channel.

Saturday, September 22nd – Continuing to haul Cat 1 material from Area 11 to the screening unit. Segregating large concrete blocks from the excavation of Area 11. Completed placement of the 2' Protective Layer over the liner in Pond 5. Continued to haul oversize material from the Screening Unit to Bin 11.

Continuing Firewater Ditch project – hauling concentrate material from the ditch to Bin #2. Two dump trucks were used to haul clean backfill from the North Pond 1 Overburden Pile to the ditch.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking of concrete in Area 11. Begin hauling clean material from Area 11 to Area 12 for backfill. Complete grading of Area 12. Excavate Cat 1 material from Area 11 and direct haul into Pond 5. Working on screening unit to replace belt and rollers. Continue Firewater Ditch Project – removal of concentrate material and debris and backfilling channel with clean overburden.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Charles Gibbs – Field Tech
Jesus Chapa - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Chris Nelson – Field Project Manager	Tim Livingston – Operator
Dustin Jayne - Operator	Taurino Fiueroa - Operator

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers F&F Trucking – 1 Driver on Firewater Ditch – hauling clean overburden backfill	Hauling Cat I material from Area 12 to Screener/Hauling Screened Cat 1 Material to Pond 5/Hauling Oversize Material from Screen to Bin 11. Hauling Cat I material from Area 11 to Screener.

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1224	AREA 11
8/23/07	40	142	480	1704	AREA 11
8/24/07	45	187	540	2244	AREA 11
8/25/07	25	212	300	2544	AREA 11
8/27/07	47	259	564	3108	AREA 11
8/28/07	37	296	444	3552	AREA 11
8/29/07	30	326	360	3912	AREA 11
8/30/07	12	338	144	4056	AREA 11
9/4/07	22	360	264	4320	AREA 11
9/5/07	34	394	408	4728	AREA 11
9/6/07	38	432	456	5184	AREA 11
9/7/07	70	502	840	6024	AREA 11
9/8/07	45	547	540	6564	AREA 11
9/20/07	42	589	504	7068	AREA 11
9/21/07	44	633	528	7596	AREA 11
9/22/07	35	668	420	8016	AREA 11

TOTAL CUBIC YARDS
EXCAVATED/TRANSPORTED/PLACED TO SCREEN/POND
5 **8016**

Asarco, El Paso Smelter
2007 Remedial Repository Design, Ponds 5 & 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
9/10/07	59	59	708	708	AREA 12
9/11/07	0	59	0	708	AREA 12
9/12/07	58	117	696	1404	AREA 12
9/13/07	42	159	504	1908	AREA 12
9/14/07	57	216	684	2592	AREA 12
9/15/07	39	255	468	3060	AREA 12
9/17/07	47	302	564	3624	AREA 12
9/18/07	82	384	984	4608	AREA 12
9/19/07	52	436	624	5232	AREA 12
COMPLETED CAT 1 EXCAVATION IN AREA 12					

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED TO SCREEN/POND 5 **5232**

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **9/23/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/17/07	YES
Tuesday	9/18/07	YES
Wednesday	9/19/07	YES
Thursday	9/20/07	YES
Friday	9/21/07	YES
Saturday	9/22/07	YES
Sunday	9/23/07	NO
TOTAL SCREENING DAYS SEPTEMBER		**13**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/17/07	NO
Tuesday	9/18/07	NO
Wednesday	9/19/07	NO
Thursday	9/20/07	NO
Friday	9/21/07	NO
Saturday	9/22/07	NO
Sunday	9/23/07	NO
TOTAL CONCRETE DAYS SEPTEMBER		**3**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 24, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **9/23/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	9/17/07	From Screening Building to Area 12 including first bridge.
Tuesday	9/18/07	From Screening Building to Area 12 including first bridge.
Wednesday	9/19/07	From Screening Building to Area 12 including first bridge.
Thursday	9/20/07	From Screening Building to Area 11 including two bridges.
Friday	9/21/07	From Screening Building to Area 11 including two bridges.
Saturday	9/22/07	From Screening Building to Area 11 including two bridges.
Sunday	9/23/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 24, 2007

ENTACT PROJECT # D7024
PROJECT NAME: ASARCO FIREWATER DITCH CLEANOUT
PROJECT LOCATION: EL PASO, TX

Week Ending 9/23/07
Submitted By: Kirk Gates
Approved By:

ENTACT

Equipment ID	Equipment Description	9/17/2007 Monday		9/18/2007 Tuesday		9/19/2007 Wednesday		9/20/2007 Thursday		9/21/2007 Friday		9/22/2007 Saturday		9/23/2007 Sunday		WE 09/23/07 Total Hours		Rate		Amount
		OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY			
1	Skid Steer w/ Grappler Bucket	0.0	0.0	6.0	2.0	9.0	0.0	9.0	0.0	9.0	0.0	6.0	0.0	0.0	0.0	39.0	2.0	$18.00		$738.00
2	Skid Steer Walk Behind Load	0.0	0.0	0.0	8.0	0.0	8.0	0.0	8.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	32.0	$12.00		$384.00
3	JD 644 Loader	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	3.0	6.0	0.0	0.0	0.0	12.0	5.0	$36.00		$612.00
4	Mini Exc 303 Series Excavator	0.0	0.0	6.0	2.0	9.0	0.0	9.0	0.0	9.0	0.0	6.0	0.0	0.0	0.0	39.0	2.0	$18.00		$738.00
5	6CY Dump Truck	0.0	0.0	6.0	2.0	9.0	0.0	9.0	0.0	9.0	0.0	6.0	0.0	0.0	0.0	39.0	2.0	$15.00		$615.00
6	12CY Dump Truck w/ Driver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	6.0	0.0	0.0	0.0	7.0	0.0	$46.00		$322.00
7	4,000 Gallon Water Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$35.50		$0.00
8	Pick Up Truck	0.0	0.0	2.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	2.0	4.0	0.0	0.0	13.0	28.0	$8.75		$358.75
9	JD200 Class Excavator w/ Grapple	0.0	0.0	6.0	2.0	9.0	0.0	9.0	0.0	9.0	0.0	6.0	0.0	0.0	0.0	39.0	2.0	$48.00		$1,968.00
	Approval																			
															Total Equipment:		**261.00**			**$5,735.75**

Number	Employee	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday		Total Hours		Rate		Amount
		ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	
1	FPM - Chris Nelson	8.0	0.0	8.0	0.0	8.0	0.0	8.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	40.0	0	$48.50		$1,940.00
2	Figueroa, Taurino	0.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	8.0	0.0	0.0	40.0	8	$26.00	$39.00	$1,352.00
3	Jayne, Dustin	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0		8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
4	Livingston, Tim	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0		8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
	Approval																			
															Total Labor:		**160.00**		**44.00**	**$6,776.00**

Number	Per Diem by Man	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Total Days	Rate	Amount
1	FPM - Chris Nelson	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
2	Figueroa, Taurino	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
3	Jayne, Dustin	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
4	Livingston, Tim	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
	Approval										
							Total Per Diem		**21.00**		**$1,575.00**

	Total Equipment and Labor Costs	**$14,086.75**
	15% Mark-up of Costs (To Cover: PPE/SAFETY SUPPLIES/MATERIALS/SMALL TOOLS - FUEL/OIL/GREASE)	**$2,113.01**
	Weekly Total Equipment and Labor Amount	**$16,199.76**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-01-07
Completed by:	Kirk Gates
cc:	Lairy Johnson-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/24/07 – 09/30/07
Weather:	Temp Average: 76 Rainfall Total for Week: 0.18”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 24th –
Began excavating, loading, and transporting clean fill material from Area 11 to be used for 6” backfill layer over Area 12. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Hauling oversize material from the screening building to Bin 11. Continuing to process concrete and sort rebar and metal in Area 11. Began work on screening unit in preparation to replace main conveyor belt, and worn rollers.

Continuing Firewater Ditch project – hauling concentrate material from the west end of the ditch to Bin #2. Hauling fill material from the Pond 1 North overburden pile and placing in the ditch. Lairy Johnson and Walter Boyle discussed having the water line in front of the Pump House relocated and eventually have ENTACT demolish the Pump House building and load it into roll-offs.

Tuesday, September 25th -
Completed excavation, loading, and transporting clean fill material from Area 11 for the 6” backfill layer for Area 12. Resumed excavation of Cat I material from Area 11 and transporting and placing in Pond 5. Continuing to process concrete and sort rebar and metal in Area 11. Doug Solon collected concrete samples from the processed concrete stockpiles. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing work on screening unit in preparation to replace main conveyor belt, and worn rollers.

Continuing Firewater Ditch project – hauling concentrate material from the west end of the ditch around the Pump House to Bin #2. Hauling fill material from the Pond 1 North overburden pile and placing in the ditch.

Wednesday, September 26th –
Continued excavation of Cat I material from Area 11 and transporting and placing in Pond 5. The concrete processor was used to begin removing metal and steel from the slag slope in Area 12. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Began installing new rollers on the screening unit conveyor.

Continuing Firewater Ditch project – hauling concentrate material from the west end of the ditch around the Pump House to Bin #2. Hauling fill material from the Pond 1 North overburden pile and placing in the ditch. Continued to fill roll-off box with debris from the ditch.

Thursday, September 27th –
Made arrangements with Union Pacific and the Fiber Optic companies to make the final cut under the ASARCO Bridge between the Ephemeral Pond and Area 12. The Qwest Fiber optic technician required that there be a minimum of 3' of cover over the top of the fiber optic line, therefore ENTACT cut down the area under the bridge and left approximately 3' of cover over the line. The cut allowed additional water to drain from the Ephemeral Pond. The grading work across Area 12 was completed. Continued excavation of Cat I material from Area 11 and transporting and placing in Pond 5. Utilized the concrete processor to remove metal and steel from the slag slope in Area 12. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Completed installing new rollers on the screening unit conveyor. Removed the conveyor belt adjustor from the screener - it was seized up and was not working.

Continuing Firewater Ditch project – hauling concentrate material from the west end of the ditch around the Pump House to Bin #2. ASARCO arranged for the vacuum truck to begin dewatering the area under the Pump House building. Hauling fill material from the Pond 1 North overburden pile and placing in the ditch.

Friday, September 28th –
Continued excavation of Cat I material from Area 11 and transporting and placing in Pond 5. Moved the concrete processor back to Area 11 and continued breaking concrete and sorting rebar. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Another roller on the screening unit conveyor was found to be broken/not working properly. Cut and welded new all-thread bolts to the conveyor belt adjustor and re-assembled.

Continuing Firewater Ditch project – hauling concentrate material from the west end of the ditch around the Pump House to Bin #2. ASARCO arranged for the vacuum truck to continue dewatering the area under the Pump House building. Hauling fill material from the Pond 1 North overburden pile and placing in the ditch. Walter Boyle pointed out various items in and around the ditch that must be completed before the backfill of the ditch can be completed (move water line from the front of the Pump House; relocate electrical that is located around the ditch and in the Pump House; walls constructed across the concrete pad/pump area on the south side of the ditch; wall constructed around the channel opening so the high pressure oxygen line will not be buried).

Saturday, September 29th –
Continued excavation of Cat I material from Area 11 and transporting and placing in Pond 5. Continued breaking concrete and sorting rebar in Area 11. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control.

Continuing Firewater Ditch project – hauling concentrate material from the west end of the ditch around the Pump House to Bin #2. Hauling fill material from the Pond 1 North overburden pile and placing in the ditch.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue breaking of concrete in Area 11. Excavate Cat 1 material from Area 11 and haul directly into Pond 5. Complete installation of conveyor belt and rollers on screening unit. Continue Firewater Ditch Project – removal of concentrate material and debris and backfilling channel with clean overburden.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Charles Gibbs – Field Tech
Jesus Chapa - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Chris Nelson – Field Project Manager (FW Ditch)	Tim Livingston – Operator (FW Ditch)
Dustin Jayne – Operator (FW Ditch)	Taurino Figueroa – Operator (FW Ditch)

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling clean fill from Area 11 to Area 12 / Hauling Cat I material from Area 11 to Pond 5

5.0 HEALTH & SAFETY

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

On Wednesday, ASARCO and ENTACT met with CDM regarding the 60" storm drain pipe project. CDM is going to perform storm drain design calculations for this area. CDM will also contact the City of El Paso regarding the water line that runs through the existing 48" storm pipe and lower structure. CDM will set up a meeting with BNSF railroad regarding connection to the drain pipe located under the rail line, within the railroad right of way. CDM will also arrange for survey of the area to determine pipe alignment and grade. ASARCO provided CDM with ENTACT's informal bid information. ENTACT supplied CDM with a drawing showing an estimated pipe alignment and provided CDM with information regarding what was included and not included in ENTACT's estimate to supply and install the pipe.

The bottom of Pond 6 is covered in water and it is uncertain when it will be dry enough to begin construction of the new cell.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates
ENTACT Project Manager
214.415.2974 (cell)
kgates@entact.com

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **9/30/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/24/07	YES
Tuesday	9/25/07	YES
Wednesday	9/26/07	YES
Thursday	9/27/07	YES
Friday	9/28/07	YES
Saturday	9/29/07	YES
Sunday	9/30/07	NO
TOTAL SCREENING DAYS SEPTEMBER		**19**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	9/24/07	YES
Tuesday	9/25/07	YES
Wednesday	9/26/07	YES
Thursday	9/27/07	YES
Friday	9/28/07	YES
Saturday	9/29/07	YES
Sunday	9/30/07	NO
TOTAL CONCRETE DAYS SEPTEMBER		**9**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 1, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **9/30/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	9/24/07	From Screening Building to Area 11 including two bridges.
Tuesday	9/25/07	From Area 11 including two bridges to Pond 5.
Wednesday	9/26/07	From Area 11 including two bridges to Pond 5.
Thursday	9/27/07	From Area 11 including two bridges to Pond 5.
Friday	9/28/07	From Area 11 including two bridges to Pond 5.
Saturday	9/29/07	From Area 11 including two bridges to Pond 5.
Sunday	9/30/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 1, 2007

Asarco, El Paso Smelter
AREA 12 CAT I EXCAVATION

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
9/10/07	59	59	708	708	AREA 12
9/11/07	0	59	0	708	AREA 12
9/12/07	58	117	696	1404	AREA 12
9/13/07	42	159	504	1908	AREA 12
9/14/07	57	216	684	2592	AREA 12
9/15/07	39	255	468	3060	AREA 12
9/17/07	47	302	564	3624	AREA 12
9/18/07	82	384	984	4608	AREA 12
9/19/07	52	436	624	5232	AREA 12
COMPLETED CAT 1 EXCAVATION IN AREA 12					

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED SCREEN/POND 5 **5232**

Asarco, El Paso Smelter
AREA 12 BACKFILL WITH 6" CLEAN FILL FROM AREA 11

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
9/24/07	89	89	1068	1068	AREA 12
9/25/07	107	196	1284	2352	AREA 12
COMPLETED BACKFILL OF AREA 12					

TOTAL CUBIC YARDS LOADED/TRANSPORTED/PLACED IN AREA 12 **2352**

Asarco, El Paso Smelter
AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 5

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1224	AREA 11
8/23/07	40	142	480	1704	AREA 11
8/24/07	45	187	540	2244	AREA 11
8/25/07	25	212	300	2544	AREA 11
8/27/07	47	259	564	3108	AREA 11
8/28/07	37	296	444	3552	AREA 11
8/29/07	30	326	360	3912	AREA 11
8/30/07	12	338	144	4056	AREA 11
9/4/07	22	360	264	4320	AREA 11
9/5/07	34	394	408	4728	AREA 11
9/6/07	38	432	456	5184	AREA 11
9/7/07	70	502	840	6024	AREA 11
9/8/07	45	547	540	6564	AREA 11
9/20/07	42	589	504	7068	AREA 11
9/21/07	44	633	528	7596	AREA 11
9/22/07	35	668	420	8016	AREA 11
9/25/07	18	686	216	8232	AREA 11
9/26/07	111	797	1332	9564	AREA 11
9/27/07	106	903	1272	10836	AREA 11
9/28/07	109	1012	1308	12144	AREA 11
9/29/07	61	1073	732	12876	AREA 11

TOTAL CUBIC YARDS
EXCAVATED/TRANSPORTED/PLACED TO POND 5 **12876**

ENTACT PROJECT # D7024
PROJECT NAME: ASARCO FIREWATER DITCH CLEANOUT
PROJECT LOCATION: EL PASO, TX

Week Ending 9/30/07
Submitted By: Kirk Gates
Approved By:

ENTACT

Equipment ID	Equipment Description	9/24/2007 Monday		9/25/2007 Tuesday		9/26/2007 Wednesday		9/27/2007 Thursday		9/28/2007 Friday		9/29/2007 Saturday		9/30/2007 Sunday		WE 09/30/07 Total Hours		Rate		Amount
		OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY			
1	Skid Steer w/ Grappler Bucket	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$18.00		$936.00
2	Skid Steer Walk Behind Load	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$12.00		$0.00
3	JD 644 Loader	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	0.0	0.0	0.0	24.0	25.0	$36.00		$1,764.00
4	Mini Exc 303 Series Excavator	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	4.0	0.0	0.0	0.0	49.0	0.0	$18.00		$882.00
5	6CY Dump Truck	6.0	2.0	6.0	2.0	6.0	2.0	6.0	2.0	6.0	2.0	6.0	0.0	0.0	0.0	36.0	10.0	$15.00		$690.00
6	12CY Dump Truck w/ Driver	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$46.00		$0.00
7	4,000 Gallon Water Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$35.50		$0.00
8	Pick Up Truck	8.0	0.0	8.0	0.0	8.0	0.0	8.0	0.0	8.0	0.0	8.0	0.0	0.0	0.0	48.0	0.0	$8.75		$420.00
9	JD200 Class Excavator w/ Grapple	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$48.00		$2,496.00
	Approval																			
																Total Equipment:	**296.00**			**$7,188.00**

Number	Employee	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday		Total Hours		Rate		Amount
		ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	
1	FPM - Chris Nelson	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	50.0	0	$48.50		$2,425.00
2	Figueroa, Taurino	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
3	Jayne, Dustin	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
4	Livingston, Tim	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	10.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
	Approval																			
																Total Labor:	**170.00**	**54.00**		**$7,651.00**

Number	Per Diem by Man	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Total Days	Rate	Amount
1	FPM - Chris Nelson	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
2	Figueroa, Taurino	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
3	Jayne, Dustin	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
4	Livingston, Tim	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
	Approval										
								Total Per Diem	**21.00**		**$1,575.00**

	Total Equipment and Labor Costs	**$16,414.00**
	10% Mark-up of Costs (To Cover: PPE/SAFETY SUPPLIES/MATERIALS/SMALL TOOLS - FUEL/OIL/GREASE)	**$1,641.40**
	Weekly Total Equipment and Labor Amount	**$18,055.40**
	TOTAL T&M TO DATE	**$34,255.16**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-08-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 10/08/07 – 10/14/07
Weather:	Temp Average: 73 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, October 8th –
Continued excavation and hauling of Cat 1 material from the west side of Area 11 to Pond 5. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing to process concrete and sort rebar and metal on the west side of Area 11. Completed all necessary welding and replacement of worn parts on the ASARCO screening unit.

Continuing Firewater Ditch project – Began demolition of the Pump House building. The wood and debris is being segregated and loaded into roll off boxes. The brick is being segregated and stockpiled in the designated area west of the Pump House. Metal is being segregated and stockpiled in the designated area west of the Pump House.

Tuesday, October 9th -
Continued excavation and hauling of Cat 1 material from the west side of Area 11 to Pond 5. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing to process concrete and sort rebar and metal on the west side of Area 11. Received approval to begin hauling processed/stockpiled/sampled concrete from Area 11 to the slope along Area 12. The concrete will be utilized to fill in the deep areas along the slope. Began screening the clean overburden pile (located on the west side of Unloading Building) to be eventually used for the final soil erosion layer on Pond 5. The screened material is being stockpiled south of the Unloading Building along the retaining wall.

Continuing Firewater Ditch project – Continuing demolition of the Pump House building and segregating wood, brick, and metal.

Wednesday, October 10th –
Began to haul processed/stockpiled/sampled concrete from Area 11 to the slope along Area 12. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing to process concrete and sort rebar and metal on the west side of Area 11. Continued screening the clean overburden pile and stockpiling screened material. The clean oversize material is being placed back onto the south end of the overburden pile.

Continuing Firewater Ditch project – Continuing demolition of the Pump House building and segregating wood, brick, and metal. Continued with the removal of concentrate material from the area around base of the Pump House.

Thursday, October 11th -
Continued to haul processed/stockpiled/sampled concrete from Area 11 to the slope along Area 12. The radiator fan on the Elgin Pelican Sweeper broke, which caused damage to the radiator. Western Fleet was on-site to begin repairs and order parts for the sweeper. The water truck was used in Area 11 and along the slope of Area 12 for dust control. The concrete processor broke down and Wagner Equipment was on-site to pick up processor unit for repairs. Continued screening the clean overburden pile and stockpiling screened material. Received approval from ASARCO to remove the Cat 1 material from the slope in Area 12 and haul to Pond 5, then place cap of clean clay material from Area 11 over the slope.

Continuing Firewater Ditch project – Continuing segregating wood, brick, and metal. Continued with the removal of concentrate material from the area around base of the Pump House.

Friday, October 12th -
Began removal of the Cat 1 material from the slope in Area 12 and hauling to Pond 5. The water truck was used for dust control along the slope of Area 12 and on the haul route to Pond 5. Continued screening the clean overburden pile and stockpiling screened material.

Continuing Firewater Ditch project – Completed the removal of the concentrate material in the Firewater Ditch (to the extent practical, to the safety limitations of the equipment, and to the extent possible along the ditch embankment area and under pipe racks as per Lairy Johnson). Continued to fill roll-off boxes with wood debris. Hauling clean overburden material to fill the excavation area at the Pump House end of the ditch. ASARCO instructed ENTACT to place one foot of clean clay (excavated from Area 11) over the bottom surface of the Firewater Ditch.

Saturday, October 13th -
Completed the removal of the Cat 1 material from the slope in Area 12 and hauled to Pond 5. Resumed hauling the processed concrete from Area 11 to the slope of Area 12. The water truck was used for dust control along the slope of Area 12 and on the haul route to Pond 5. Continued screening the clean overburden pile and stockpiling screened material.

Continuing Firewater Ditch project – Hauling clean overburden material to fill the excavation area at the Pump House end of the ditch.

Sunday, October 14th – No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue hauling processed concrete from Area 11 to the Area 12 slope. Begin hauling of clean clay from Area 11 to the Area 12 slope, to be used to cap the slope surface. Continuing screening clean overburden pile to be used for the 17" Soil Erosion Layer for Pond 5. Continue Firewater Ditch Project – complete loading of wood into roll off boxes and continue load out and stockpiling of brick. Begin hauling of clean clay from Area 11 to cap the entire Firewater Ditch.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Jesus Chapa - Operator	Humberto Valenzuela – Field Tech
Lloyd Evans - Operator	
Chris Nelson – Field Project Manager (FW Ditch)	Tim Livingston – Operator (FW Ditch)
Dustin Jayne – Operator (FW Ditch)	Albert Franco – Operator (FW Ditch)

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling Cat I material from Area 11 to Pond 5. Hauled processed concrete from Area 11 to the Slope in Area 12. Hauling screened clean overburden material to stockpile. Hauled Cat I material from Area 12 Slope to Pond 5. Hauled clean overburden to the Firewater Ditch.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break. A rattlesnake was killed on the haul road near the Asarco Bridge that crosses the Union Pacific rail lines. Snakes were discussed in the safety meeting. A 6" centipede was found in the hallway of the Security Office building. We discussed shaking out the coveralls and checking your shoes and boots before putting them on.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- ASARCO, CDM, and ENTACT met with the Roadmaster from Burlington Northern/Santa Fe (BNSF) Railroad regarding connecting to the existing steel culvert pipe which is located under their track along Paisano Drive. He stated that a proposal would have to be sent to their Contract Review group for an approval process. He supplied the name and number of the Project Engineer located in Albuquerque, New Mexico as a contact to get more information. His name is Harry Lara and his number is 505-767-6847. CDM will call Mr. Lara and begin proposal process.

- The bottom of Pond 6 contains water and it is uncertain when it will be dry enough to begin construction of the new cell.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **10/14/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	10/8/07	From Area 11 including two bridges to Pond 5.
Tuesday	10/9/07	From Area 11 including two bridges to Pond 5.
Wednesday	10/10/07	From Area 11 including two bridges to Pond 5.
Thursday	10/11/07	From Area 11 including two bridges to Pond 5.
Friday	10/12/07	Did Not Use - Radiator Needs Repair
Saturday	10/13/07	Did Not Use - Waiting on Parts for Radiator
Sunday	10/14/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 15, 2007

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **10/14/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/8/07	YES
Tuesday	10/9/07	YES
Wednesday	10/10/07	YES
Thursday	10/11/07	YES
Friday	10/12/07	YES
Saturday	10/13/07	YES
Sunday	10/14/07	NO
TOTAL SCREENING DAYS OCTOBER		**9**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/8/07	YES
Tuesday	10/9/07	YES
Wednesday	10/10/07	YES
Thursday	10/11/07	YES
Friday	10/12/07	NO
Saturday	10/13/07	NO
Sunday	10/14/07	NO
TOTAL SCREENING DAYS OCTOBER		**7**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 15, 2007

Asarco, El Paso Smelter
AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 5

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1,224	AREA 11
8/23/07	40	142	480	1,704	AREA 11
8/24/07	45	187	540	2,244	AREA 11
8/25/07	25	212	300	2,544	AREA 11
8/27/07	47	259	564	3,108	AREA 11
8/28/07	37	296	444	3,552	AREA 11
8/29/07	30	326	360	3,912	AREA 11
8/30/07	12	338	144	4,056	AREA 11
9/4/07	22	360	264	4,320	AREA 11
9/5/07	34	394	408	4,728	AREA 11
9/6/07	38	432	456	5,184	AREA 11
9/7/07	70	502	840	6,024	AREA 11
9/8/07	45	547	540	6,564	AREA 11
9/20/07	42	589	504	7,068	AREA 11
9/21/07	44	633	528	7,596	AREA 11
9/22/07	35	668	420	8,016	AREA 11
9/25/07	18	686	216	8,232	AREA 11
9/26/07	111	797	1,332	9,564	AREA 11
9/27/07	106	903	1,272	10,836	AREA 11
9/28/07	109	1,012	1,308	12,144	AREA 11
9/29/07	61	1,073	732	12,876	AREA 11
10/1/07	110	1,183	1,320	14,196	AREA 11
10/2/07	76	1,259	912	15,108	AREA 11
10/3/07	47	1,306	564	15,672	AREA 11
10/8/07	102	1,408	1,224	16,896	AREA 11
10/9/07	96	1,504	1,152	18,048	AREA 11

TOTAL CUBIC YARDS
EXCAVATED/TRANSPORTED/PLACED TO POND 5 **18,048**

Asarco, El Paso Smelter
AREA 11 PROCESSED CONCRETE LOAD/TRANSPORT/PLACE

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	PLACED IN DESIGNATED AREA
10/10/07	85	85	850	850	AREA 12 SLOPE
10/11/07	76	161	760	1,610	AREA 12 SLOPE
10/12/07	0	161	0	1,610	AREA 12 SLOPE
10/13/07	42	203	420	2,030	AREA 12 SLOPE
			0	2,030	AREA 12 SLOPE

* Tandam Haul Trucks Safely Haul 23-25 Tons of Material - Concrete Weighs Approx. 4000LBS/CY - Figure Each Truck Transports 10CY of Concrete

TOTAL CUBIC YARDS LOADED/TRANSPORTED/PLACED 2,030

Asarco, El Paso Smelter
AREA 12 CAT I EXCAVATION

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
9/10/07	59	59	708	708	AREA 12
9/11/07	0	59	0	708	AREA 12
9/12/07	58	117	696	1,404	AREA 12
9/13/07	42	159	504	1,908	AREA 12
9/14/07	57	216	684	2,592	AREA 12
9/15/07	39	255	468	3,060	AREA 12
9/17/07	47	302	564	3,624	AREA 12
9/18/07	82	384	984	4,608	AREA 12
10/12/07	42	426	504	5,112	AREA 12 SLOPE
10/13/07	17	443	204	5,316	AREA 12 SLOPE
COMPLETED CAT 1 EXCAVATION IN AREA 12					
TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED IN POND 5				**5,316**	

Asarco, El Paso Smelter
Screening Clean Overburden for Final Soil Erosion Layer over Liner

Daily Truck Count - Line Item E.5 - 17" Soil Erosion Layer

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Overburden Pile
10/9/07	20	20	210.0	210.0	Unloading Building
10/10/07	36	56	378.0	588.0	Unloading Building
10/11/07	22	78	231.0	819.0	Unloading Building
10/12/07	18	96	189.0	1,008.0	Unloading Building
10/13/07		96	0.0	1,008.0	Unloading Building

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 1,008.0

ENTACT PROJECT # D7024
PROJECT NAME: ASARCO FIREWATER DITCH CLEANOUT
PROJECT LOCATION: EL PASO, TX

Week Ending 10/14/07
Submitted By: Kirk Gates
Approved By:

ENTACT

Equipment ID	Equipment Description	10/8/2007 Monday		10/9/2007 Tuesday		10/10/2007 Wednesday		10/11/2007 Thursday		10/12/2007 Friday		10/13/2007 Saturday		10/14/2007 Sunday		WE 10/14/07 Total Hours		Rate		Amount
		OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY			
1	Skid Steer w/ Grappler Bucket	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$18.00		$936.00
2	Skid Steer Walk Behind Load	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$12.00		$0.00
3	JD 644 Loader	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	7.0	0.0	0.0	0.0	22.0	30.0	$36.00		$1,872.00
4	Mini Exc 303 Series Excavator	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	4.0	5.0	3.0	4.0	0.0	0.0	43.0	9.0	$18.00		$936.00
5	6CY Dump Truck	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$15.00		$780.00
6	12CY Dump Truck w/ Driver	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	16.0	0.0	$46.00		$736.00
7	4,000 Gallon Water Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$35.50		$0.00
8	Pick Up Truck	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$8.75		$455.00
9	JD200 Class Excavator w/ Grapple	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$48.00		$2,496.00
	Approval																			
																Total Equipment:	**328.00**			**$8,211.00**

Number	Employee	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday		Total Hours		Rate		Amount
		ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	
1	FPM - Chris Nelson	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	45.0	0	$48.50		$2,182.50
2	Franco, Albert	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
3	Jayne, Dustin	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
4	Livingston, Tim	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
5	Vasquera, Gus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	8.0	0.0	0.0	0.0	13.0	0.0	$26.00	$39.00	$338.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
	Approval																			
																Total Labor:	**178.00**	**54.00**		**$7,746.50**

Number	Per Diem by Man	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Total Days	Rate	Amount
1	FPM - Chris Nelson	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
2	Jayne, Dustin	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
3	Livingston, Tim	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
	Approval										
							Total Per Diem		**21.00**		**$1,575.00**

Total Equipment and Labor Costs	**$17,532.50**
10% Mark-up of Costs (To Cover: PPE/SAFETY SUPPLIES/MATERIALS/SMALL TOOLS - FUEL/OIL/GREASE)	**$1,753.25**
Weekly Total Equipment and Labor Amount	**$19,285.75**
TOTAL T&M TO DATE	**$63,510.49**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-22-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 10/14/07 – 10/21/07
Weather:	Temp Average: 65 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, October 15th –
Began excavation of clean clay material from Area 11 and transporting and placing the clay on the west side of the Area 12 slope. Continued screening the clean overburden pile (located on the west side of Unloading Building) to be eventually used for the final soil erosion layer on Pond 5. The screened material is being stockpiled south of the Unloading Building along the retaining wall. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control.

Firewater Ditch Project – Completed removal of the brick from the Pumphouse end of the ditch, and stockpiled in designated area. Completed placement of backfill at the Pumphouse end of the excavation.

Tuesday, October 16th -
Continued excavation of clean clay material from Area 11 and transporting and placing the clay on the west side of the Area 12 slope. Continued screening the clean overburden to be eventually used for the final soil erosion layer on Pond 5. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control.

Firewater Ditch Project – Began hauling clean clay material from Area 11 and placing an approximate 1’ layer over the entire ditch area. A section of railing was removed from the Pumphouse side of the ditch in order to dump the clay directly into the ditch.

Wednesday, October 17th –
Continued excavation of clean clay material from Area 11 and transporting and placing the clay on the west side of the Area 12 slope. Switched back to hauling processed/sampled concrete from Area 11 and began dumping on the east end of the Area 12 slope to fill in the deep cut. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Began renovation work in the Unloading Building to accommodate both the ENTACT screening operation and the JL-D asphalt production: ENTACT moved the clam bucket from the west side of the Unloading Building to the outside; ENTACT repositioned the oil tanker on the west side of the building; ENTACT removed the soil and rock material that had fallen onto the west side of the building and hauled to Pond 5; ASARCO brought the

metal plates to install on the divider wall; ENTACT removed the thin fiberglass sheeting from the divider wall.

Firewater Ditch Project – Completed hauling clean clay material from Area 11 for the 1' layer over the entire ditch. Continued hauling clean backfill fill material from the North Pond 1 Overburden pile to level off the Pumphouse end of the ditch.

Thursday, October 18th -
Continued hauling processed/sampled concrete from Area 11 and placed on the east end of the Area 12 slope. Continuing with grading work in the clean, excavated areas of Area 11. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing renovation work in the Unloading Building: ENTACT assisted ASARCO with the installation of the metal plates on the divider wall. JL-D hauled 22 loads of concentrate material into Pond 5.

Firewater Ditch Project – Continued hauling clean backfill fill material from the North Pond 1 Overburden pile to level off the Pumphouse end of the ditch. Moved the mini-excavator and the large excavator to the bridge end of the ditch in order to begin the removal of debris and concentrate material from under the bridge and pipe racks.

Friday, October 19th -
Continued hauling processed/sampled concrete from Area 11 placed on the east end of the Area 12 slope. Continuing with grading work in the clean excavated areas of Area 11. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing renovation work in the Unloading Building: Continued installation of the metal plates on the divider wall.

Firewater Ditch Project – Completed placement of backfill in the Pumphouse portion of the ditch. Completed the removal of wood debris from the bridge end of the ditch. Began removing the concentrate material from under the pipe racks and hauled to Bin 4.

Saturday, October 20th -
Continued hauling processed/sampled concrete from Area 11 placed on the east end of the Area 12 slope. Continuing with grading work in the clean, excavated areas of Area 11. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing renovation work in the Unloading Building: ENTACT installed additional panels on the divider wall to prevent material from falling over to the other side.

Firewater Ditch Project – Removing the impacted material from the bridge area of the ditch and hauled directly into Pond 5.

Sunday, October 21st – No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete hauling processed concrete from Area 11 to the Area 12 slope. Continue hauling of clean clay from Area 11 to the Area 12 slope, to be used to cap the slope surface. Continuing screening clean overburden pile to be used for the 17" Soil Erosion Layer for Pond 5. Complete Firewater Ditch Project – complete loading of wood into roll off boxes; complete the removal of concentrate material from under the bridge; complete backfill of ditch at the bridge.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Jesus Chapa - Operator	Humberto Valenzuela – Field Tech
Lloyd Evans - Operator	Gus Vaquera – Operator (FW Ditch)
Chris Nelson – Field Project Manager (FW Ditch)	Tim Livingston – Operator (FW Ditch)
Dustin Jayne – Operator (FW Ditch)	Albert Franco – Operator (FW Ditch)

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauled processed concrete from Area 11 to the Slope in Area 12. Hauling clean overburden soil to screener and the screened material to the stockpile. Hauled clean clay from Area 11 to the Slope in Area 12. Hauled concentrate material from the Firewater ditch to Pond 5. Hauled clean overburden and clean clay to the Firewater Ditch.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

- ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- On Monday, October 15th, ASARCO, CDM, and ENTACT met with Larry Caston of Union Pacific regarding working along the Union Pacific drainage ditch when installing the new drain pipe. Mr. Caston requested that CDM e-mail him a notification of the intended work, and he will forward to the proper parties and request information regarding Right of Way entry, insurance requirements, structure standards, material specifications, etc.

- On the evening of Monday, October 15th, John Wedgeworth of JL-D management informed ENTACT that they were going to begin production of asphalt in approximately 2-3 weeks, and would need to use both sides of the Unloading Building for their operation. ENTACT is currently running the screening operation in the East side of the Unloading Building. ENTACT met with ASARCO on Tuesday morning regarding this issue. On the afternoon of Tuesday, October 16th, Doug Solon of ASARCO met with Sam Moss at the Unloading Building, and ENTACT will continue using the east side of the Unloading Building for the screening operation. ENTACT will assist with moving some of the equipment and materials in the west side of the building, and ASARCO will install metal plating along the divider wall to prevent screened material from falling in the west side of the building.

- The bottom of Pond 6 contains water and it is uncertain when it will be dry enough to begin construction of the new cell.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **10/21/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/15/07	YES
Tuesday	10/16/07	YES
Wednesday	10/17/07	YES
Thursday	10/18/07	YES
Friday	10/19/07	YES
Saturday	10/20/07	YES
Sunday	10/21/07	NO
TOTAL SCREENING DAYS OCTOBER		**15**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/15/07	NO
Tuesday	10/16/07	NO
Wednesday	10/17/07	NO
Thursday	10/18/07	NO
Friday	10/19/07	NO
Saturday	10/20/07	NO
Sunday	10/21/07	NO
TOTAL SCREENING DAYS OCTOBER		**7**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 22, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **10/21/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	10/15/07	From Area 11 including two bridges to Pond 5.
Tuesday	10/16/07	From Area 11 including two bridges to Pond 5.
Wednesday	10/17/07	From Area 11 including two bridges to Pond 5.
Thursday	10/18/07	From Area 11 including two bridges to Pond 5.
Friday	10/19/07	From Area 11 including two bridges to Pond 5.
Saturday	10/20/07	From Area 11 including two bridges to Pond 5.
Sunday	10/21/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 22, 2007

Asarco, El Paso Smelter
AREA 11 PROCESSED CONCRETE LOAD/TRANSPORT/PLACE

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	PLACED IN DESIGNATED AREA
10/10/07	85	85	850	850	AREA 12 SLOPE
10/11/07	76	161	760	1,610	AREA 12 SLOPE
10/12/07	0	161	0	1,610	AREA 12 SLOPE
10/13/07	42	203	420	2,030	AREA 12 SLOPE
10/17/07	22	225	220	2,250	AREA 12 SLOPE
10/18/07	95	320	950	3,200	AREA 12 SLOPE
10/19/07	96	416	960	4,160	AREA 12 SLOPE
10/20/07	67	483	670	4,830	AREA 12 SLOPE

* Tandam Haul Trucks Safely Haul 23-25 Tons of Material - Concrete Weighs Approx. 4000LBS/CY - Figure Each Truck Transports 10CY of Concrete

TOTAL CUBIC YARDS LOADED/TRANSPORTED/PLACED 4,830

Asarco, El Paso Smelter

AREA 12 SLOPE BACKFILL CLEAN CLAY FILL FROM AREA 11

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
10/15/07	86	86	1032	1032	AREA 12
10/16/07	78	164	936	1968	AREA 12
10/17/07	55	219	660	2628	AREA 12
AREA 12 SLOPE BACKFILL					

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED IN AREA 12	**2628**

Asarco, El Paso Smelter
Screening Clean Overburden for Final Soil Erosion Layer over Liner

Daily Truck Count - Line Item E.5 - 17" Soil Erosion Layer

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Overburden Pile
10/9/07	20	20	210.0	210.0	Unloading Building
10/10/07	36	56	378.0	588.0	Unloading Building
10/11/07	22	78	231.0	819.0	Unloading Building
10/12/07	18	96	189.0	1,008.0	Unloading Building
10/15/07	20	116	210.0	1,218.0	Unloading Building
10/16/07	17	133	178.5	1,396.5	Unloading Building

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 1,396.5

ENTACT PROJECT # D7024
PROJECT NAME: ASARCO FIREWATER DITCH CLEANOUT
PROJECT LOCATION: EL PASO, TX

Week Ending 10/21/07
Submitted By: Kirk Gates
Approved By:

ENTACT

Equipment ID	Equipment Description	10/15/2007 Monday		10/16/2007 Tuesday		10/17/2007 Wednesday		10/18/2007 Thursday		10/19/2007 Friday		10/20/2007 Saturday		10/21/2007 Sunday		WE 10/21/07 Total Hours		Rate		Amount
		OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY			
1	Skid Steer w/ Grappler Bucket	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$18.00		$936.00
2	Skid Steer Walk Behind Load	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$12.00		$0.00
3	JD 644 Loader	6.0	3.0	6.0	3.0	9.0	0.0	6.0	3.0	3.0	6.0	0.0	7.0	0.0	0.0	30.0	22.0	$36.00		$1,872.00
4	Mini Exc 303 Series Excavator	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	9.0	0.0	7.0	0.0	0.0	0.0	16.0	36.0	$18.00		$936.00
5	6CY Dump Truck	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$15.00		$780.00
6	12CY Dump Truck w/ Driver	9.0	0.0	9.0	0.0	18.0	0.0	9.0	0.0	5.0	0.0	4.0	0.0	0.0	0.0	54.0	0.0	$46.00		$2,484.00
7	4,000 Gallon Water Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$35.50		$0.00
8	Pick Up Truck	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$8.75		$455.00
9	JD200 Class Excavator w/ Grapple	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	9.0	0.0	7.0	0.0	0.0	0.0	52.0	0.0	$48.00		$2,496.00
	Approval																			
																Total Equipment:	**366.00**			**$9,959.00**

Number	Employee	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday		Total Hours		Rate		Amount
		ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	
1	FPM - Chris Nelson	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	$48.50		$2,425.00
2	Jayne, Dustin	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
3	Livingston, Tim	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
4	Franco, Albert	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
5	Vaquera, Gus	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	8.0	2.0	0.0	8.0	0.0	0.0	40.0	18.0	$26.00	$39.00	$1,742.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
	Approval																			
																Total Labor:	**210.00**	**72.00**		**$9,393.00**

Number	Per Diem by Man	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Total Days	Rate	Amount
1	FPM - Chris Nelson	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
2	Jayne, Dustin	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
3	Livingston, Tim	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.00	$75.00	$525.00
4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
	Approval										
							Total Per Diem		**21.00**		**$1,575.00**

	Total Equipment and Labor Costs	**$20,927.00**
	10% Mark-up of Costs (To Cover: PPE/SAFETY SUPPLIES/MATERIALS/SMALL TOOLS - FUEL/OIL/GREASE)	**$2,092.70**
	Weekly Total Equipment and Labor Amount	**$23,019.70**
	TOTAL T&M TO DATE	**$86,530.19**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-29-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 10/22/07 – 10/28/07
Weather:	Temp Average: 63 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, October 22nd –
Continued hauling processed/sampled concrete from Area 11 placed on the east end of the Area 12 slope. Continuing with grading work in the clean, excavated areas of Area 11. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Resumed screening the clean overburden pile (located on the west side of Unloading Building) to be eventually used for the final soil erosion layer on Pond 5. The screened material is being stockpiled south of the Unloading Building along the retaining wall. Completed hauling all the processed/sampled concrete from Area 11 to the slope of Area 12

Firewater Ditch Project – Completed the removal of the concentrate material in the Firewater Ditch in the area by the Bridge (to the extent practical, to the safety limitations of the equipment, and to the extent possible). Doug Solon collected a sample from the bottom of the excavation. Began hauling the clean overburden soil to backfill the excavation under the bridge. Filled the last roll-off box with the remaining wood debris.

Tuesday, October 23rd -
The D6 Dozer was continuing to shape the Area 12 slope. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continued screening the clean overburden pile (located on the west side of Unloading Building) to be eventually used for the final soil erosion layer on Pond 5. The screened material is being stockpiled south of the Unloading Building along the retaining wall.

Firewater Ditch Project – Continuing to haul the clean overburden soil from the North Pond 1 stockpile to the bridge end of the Firewater ditch for backfill. Completed filling in this portion of the ditch up to the bottom of the Oxygen pipeline that runs perpendicular across the ditch. Began placing fill soil on the slopes in the remainder of the ditch.

Wednesday, October 24th –
Began hauling the oversize Cat I material (generated from the screening process) from Bin 11 to Pond 5. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continued screening the clean overburden pile and stockpiling screened soil south of the Unloading Building along the retaining wall.

Firewater Ditch Project – Completed placement of fill around the slope edges of the ditch. Walter Boyle performed an inspection of the work area with Chris Nelson.

Thursday, October 25th -
Continued hauling the oversize Cat I material (generated from the screening process) from Bin 11 to Pond 5. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continued screening the clean overburden pile and stockpiling screened soil south of the Unloading Building along the retaining wall.

Friday, October 26th -
Completed hauling the oversize Cat I material (generated from the screening process) from Bin 11 to Pond 5. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continued screening the clean overburden pile and stockpiling screened soil south of the Unloading Building along the retaining wall.

Saturday, October 27th -
Continued screening the clean overburden pile and stockpiling screened soil south of the Unloading Building along the retaining wall. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Installed rebuilt belt tighteners and new screen on screening unit.

Sunday, October 21st – No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Excavate two Cat I investigation areas (Designated Area IA-3) on the west side of the plant. Begin screening Cat I material for the 2' Intermediate Cover.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Jesus Chapa - Operator	Humberto Valenzuela – Field Tech
Lloyd Evans - Operator	Gus Vaquera – Operator (FW Ditch)
Chris Nelson – Field Project Manager (FW Ditch)	Tim Livingston – Operator (FW Ditch)
Dustin Jayne – Operator (FW Ditch)	Albert Franco – Operator (FW Ditch)

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling clean overburden soil to screener and the screened material to the stockpile. Hauled the oversize Cat I material from Bin 11 to Pond

	5. Hauled clean overburden and clean clay to the Firewater Ditch.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **10/28/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	10/22/07	From Area 11 including two bridges to Pond 5.
Tuesday	10/23/07	From Area 11 including two bridges to Pond 5.
Wednesday	10/24/07	From Screening Builing and Bins Building to Pond 5.
Thursday	10/25/07	From Screening Builing and Bins Building to Pond 5.
Friday	10/26/07	From Screening Builing and Bins Building to Pond 5.
Saturday	10/27/07	From Screening Builing and Bins Building to Pond 5.
Sunday	10/28/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 29, 2007

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **10/28/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/22/07	YES
Tuesday	10/23/07	YES
Wednesday	10/24/07	YES
Thursday	10/25/07	YES
Friday	10/26/07	YES
Saturday	10/27/07	YES
Sunday	10/28/07	NO
TOTAL SCREENING DAYS OCTOBER		**21**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/22/07	NO
Tuesday	10/23/07	NO
Wednesday	10/24/07	NO
Thursday	10/25/07	NO
Friday	10/26/07	NO
Saturday	10/27/07	NO
Sunday	10/28/07	NO
TOTAL CONCRETE SIZING DAYS OCTOBER		**7**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE October 29, 2007

Asarco, El Paso Smelter
AREA 11 PROCESSED CONCRETE LOAD/TRANSPORT/PLACE

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	PLACED IN DESIGNATED AREA
10/10/07	85	85	850	850	AREA 12 SLOPE
10/11/07	76	161	760	1,610	AREA 12 SLOPE
10/12/07	0	161	0	1,610	AREA 12 SLOPE
10/13/07	42	203	420	2,030	AREA 12 SLOPE
10/17/07	22	225	220	2,250	AREA 12 SLOPE
10/18/07	95	320	950	3,200	AREA 12 SLOPE
10/19/07	96	416	960	4,160	AREA 12 SLOPE
10/20/07	67	483	670	4,830	AREA 12 SLOPE
10/22/07	100	583	1,000	5,830	AREA 12 SLOPE

* Tandam Haul Trucks Safely Haul 23-25 Tons of Material - Concrete Weighs Approx. 4000LBS/CY - Figure Each Truck Transports 10CY of Concrete

TOTAL CUBIC YARDS LOADED/TRANSPORTED/PLACED 5,830

Asarco, El Paso Smelter
Screening Clean Overburden for Final Soil Erosion Layer over Liner

Daily Truck Count - Line Item E.5 - 17" Soil Erosion Layer

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Overburden Pile
10/9/07	20	20	210.0	210.0	Unloading Building
10/10/07	36	56	378.0	588.0	Unloading Building
10/11/07	22	78	231.0	819.0	Unloading Building
10/12/07	18	96	189.0	1,008.0	Unloading Building
10/15/07	20	116	210.0	1,218.0	Unloading Building
10/16/07	17	133	178.5	1,396.5	Unloading Building
10/22/07	33	166	346.5	1,743.0	Unloading Building
10/23/07	68	234	714.0	2,457.0	Unloading Building
10/24/07	57	291	598.5	3,055.5	Unloading Building
10/25/07	60	351	630.0	3,685.5	Unloading Building
10/26/07	63	414	661.5	4,347.0	Unloading Building
10/27/07	20	434	210.0	4,557.0	Unloading Building

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 4,557.0

Asarco, El Paso Smelter

Daily Truck Count - Load/Transport Oversize Cat I Material from Screening Building to Bin 11 & Load/Transport Oversize Cat I Material and Place in Pond 5

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Bins Blding to Pond 5
10/24/07	103	103	1081.5	1,081.5	Bin 11 to Pond 5
10/25/07	58	161	609.0	1,690.5	Bin 11 to Pond 5
10/26/07	37	198	388.5	2,079.0	Bin 11 to Pond 5

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 2,079.0

ENTACT PROJECT # D7024
PROJECT NAME: ASARCO FIREWATER DITCH CLEANOUT
PROJECT LOCATION: EL PASO, TX

Week Ending: 10/28/07
Submitted By: Kirk Gates
Approved By:

ENTACT

Equipment ID	Equipment Description	10/22/2007 Monday		10/23/2007 Tuesday		10/24/2007 Wednesday		10/25/2007 Thursday		10/26/2007 Friday		10/27/2007 Saturday		10/28/2007 Sunday		WE 10/28/07 Total Hours		Rate		Amount
		OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY	OPER	STBY			
1	Skid Steer w/ Grappler Bucket	9.0	0.0	10.5	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	0.0	$18.00		$423.00
2	Skid Steer Walk Behind Load	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$12.00		$0.00
3	JD 644 Loader	6.0	3.0	8.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	5.5	$36.00		$702.00
4	Mini Exc 303 Series Excavator	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.0	$18.00		$162.00
5	6CY Dump Truck	9.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	$15.00		$292.50
6	12CY Dump Truck w/ Driver	9.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	0.0	$46.00		$1,242.00
7	4,000 Gallon Water Truck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$35.50		$0.00
8	Pick Up Truck	9.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0	$8.75		$157.50
9	JD200 Class Excavator w/ Grapple	9.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	$48.00		$936.00
	Approval																			
																Total Equipment:	**136.00**			**$3,915.00**

Number	Employee	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday		Total Hours		Rate		Amount
		ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	ST	OT	
1	FPM - Chris Nelson	10.0	0.0	10.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	$48.50		$1,164.00
2	Jayne, Dustin	10.0	0.0	11.5	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.0	$26.00	$39.00	$663.00
3	Livingston, Tim	10.0	0.0	11.5	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.0	$26.00	$39.00	$663.00
4	Franco, Albert	10.0	0.0	11.5	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.0	$26.00	$39.00	$663.00
5	Vaquera, Gus	10.0	0.0	11.5	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.0	$26.00	$39.00	$663.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	$26.00	$39.00	$0.00
	Approval																			
																Total Labor:	**126.00**	**0.00**		**$3,816.00**

Number	Per Diem by Man	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Total Days	Rate	Amount
1	FPM - Chris Nelson	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.00	$75.00	$150.00
2	Jayne, Dustin	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.00	$75.00	$150.00
3	Livingston, Tim	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.00	$75.00	$150.00
4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
5	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
6	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
7	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
8	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	$75.00	$0.00
	Approval										
							Total Per Diem		**6.00**		**$450.00**

Total Equipment and Labor Costs	**$8,181.00**
PARTIAL WEEK - No Mark-up of Costs (To Cover: PPE/SAFETY SUPPLIES/MATERIALS/SMALL TOOLS - FUEL/OIL/GREASE)	**$0.00**
Weekly Total Equipment and Labor Amount	**$8,181.00**
TOTAL T&M TO DATE	**$94,711.19**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	11-05-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 10/29/07 – 11/04/07
Weather:	Temp Average: 62 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, October 29th –
Began excavation of Cat I material from Area 1A-3, between the building and the west fence. A total of 480 cubic yards of Cat I material was excavated and hauled to the screening building. Clean overburden soil from the North Pond 1 stockpile was used to backfill the Area 1A-3. Began screening Cat I material to be used for the 2’ Intermediate Cover for Pond 5. The oversize Cat I material from the screening operation was placed in Bin 11. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Began pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench.

Tuesday, October 30th -
Began excavation of Cat I material from the second Area 1A-3, between the sets of train tracks near the sump area. A total of 780 cubic yards of Cat I material was excavated and hauled to the screening building. Clean overburden soil from the North Pond 1 stockpile was used to backfill the excavated Area 1A-3. Continued screening Cat I material to be used for the 2’ Intermediate Cover for Pond 5. Began hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2’ Intermediate Cover. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench.

Wednesday, October 31st –
Completed backfilling the Area 1A-3 excavations and compacted and cleaned up both areas. Resumed excavation of Cat I material from the west end of Area 11 and hauled to the screening building. Continued screening Cat I material to be used for the 2’ Intermediate Cover for Pond 5. The oversize Cat I material from the screening operation was placed in Bin 11. Continued hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2’ Intermediate Cover. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench. Dug a series of test holes on the south side of the Area 11 entrance haul road to investigate extent of Cat I landfill.

Thursday, November 1st -
Continuing excavation of Cat I material from the west end of Area 11 and hauled to the screening building. Continued screening Cat I material to be used for the 2' Intermediate Cover for Pond 5. The oversize Cat I material from the screening operation was placed in Bin 11. Continued hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2' Intermediate Cover. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench. Repairs to the concrete processor were completed, and resumed breaking and sizing the concrete in Area 11.

Friday, November 2nd -
Continuing excavation of Cat I material from the west end of Area 11 and hauled to the screening building. Continued screening Cat I material to be used for the 2' Intermediate Cover for Pond 5. The oversize Cat I material from the screening operation was placed in Bin 11. Continued hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2' Intermediate Cover. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench. Continued breaking and sizing the concrete and sorting rebar in Area 11. Additional test holes were dug on the south side of the Area 11 entrance haul road to investigate extent of Cat I landfill.

Saturday, November 3rd -
Continuing excavation of Cat I material from the west end of Area 11 and hauled to the screening building. Continued screening Cat I material to be used for the 2' Intermediate Cover for Pond 5. Continued hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2' Intermediate Cover. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control. Continuing pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench. Continued breaking and sizing the concrete and sorting rebar in Area 11.

Sunday, November 4th – No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Excavate Cat I material from Area 11 and screen for the 2' Intermediate Cover for Pond 5. Breaking and sizing of concrete debris in Area 11. Placing and compacting 2' Intermediate Cover in Pond 5.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Jesus Chapa - Operator	Humberto Valenzuela – Field Tech
Lloyd Evans - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling Cat I material from Area 1A-3 to screener. Hauling screened Cat I material to Pond 5. Hauling Cat I material from Area 11 to screener. Hauling oversize Cat I material from screener to Bin 11.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

On Wednesday, October 31, Sam Moss met with Tom Klempel, Arturo Burgos, Walter Boyle, Doug Solon, and Alan Brutcher for an update on project status.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **11/4/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	10/29/07	From Screening Builing and Bins Building to Pond 5.
Tuesday	10/30/07	From Screening Builing and Bins Building to Pond 5.
Wednesday	10/31/07	From Area 11 to Pond 5 and from Screening/Bins Building to Pond 5
Thursday	11/1/07	From Area 11 to Pond 5 and from Screening/Bins Building to Pond 5
Friday	11/2/07	From Area 11 to Pond 5 and from Screening/Bins Building to Pond 5
Saturday	11/3/07	From Area 11 to Pond 5 and from Screening/Bins Building to Pond 5
Sunday	11/4/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 5, 2007

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **11/4/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/29/07	YES
Tuesday	10/30/07	YES
Wednesday	10/31/07	YES
Thursday	11/1/07	YES
Friday	11/2/07	YES
Saturday	11/3/07	YES
Sunday	11/4/07	NO

TOTAL SCREENING DAYS OCTOBER - 24 **TOTAL SCREENING DAYS NOVEMBER - 3**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	10/29/07	NO
Tuesday	10/30/07	NO
Wednesday	10/31/07	NO
Thursday	11/1/07	YES
Friday	11/2/07	YES
Saturday	11/3/07	YES
Sunday	11/4/07	NO

TOTAL CONCRETE SIZING DAYS OCTOBER - 7 **TOTAL CONCRETE SIZING DAYS NOVEMBER - 3**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 5, 2007

Asarco, El Paso Smelter
AREA 1A-3 CAT I EXCAVATION

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
10/29/07	40	40	480	480	AREA 1A-3 BLDING
10/30/07	65	105	780	1,260	AREA 1A-3 SUMP
COMPLETED CAT 1 EXCAVATION IN BOTH AREAS 1A-3					
TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED				**1,260**	

Asarco, El Paso Smelter

Daily Truck Count - Line Items D.2 Load, Transport, and Place Clean Overburden Backfill in Excavated Areas

DATE	LOADS	LOADS TTD	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TTD	Overburden Pile	Backfill Area
10/29/07	35	35	420	420	North Pond 1	Area 1A-3
10/30/07	38	73	456	876	North Pond 1	Area 1A-3
10/31/07	22	95	264	1140	North Pond 1	Area 1A-3

TOTAL CUBIC YARDS LOADED/TRANSPORTED/PLACED **1,140**

Asarco, El Paso Smelter
AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 5

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1,224	AREA 11
8/23/07	40	142	480	1,704	AREA 11
8/24/07	45	187	540	2,244	AREA 11
8/25/07	25	212	300	2,544	AREA 11
8/27/07	47	259	564	3,108	AREA 11
8/28/07	37	296	444	3,552	AREA 11
8/29/07	30	326	360	3,912	AREA 11
8/30/07	12	338	144	4,056	AREA 11
9/4/07	22	360	264	4,320	AREA 11
9/5/07	34	394	408	4,728	AREA 11
9/6/07	38	432	456	5,184	AREA 11
9/7/07	70	502	840	6,024	AREA 11
9/8/07	45	547	540	6,564	AREA 11
9/20/07	42	589	504	7,068	AREA 11
9/21/07	44	633	528	7,596	AREA 11
9/22/07	35	668	420	8,016	AREA 11
9/25/07	18	686	216	8,232	AREA 11
9/26/07	111	797	1,332	9,564	AREA 11
9/27/07	106	903	1,272	10,836	AREA 11
9/28/07	109	1,012	1,308	12,144	AREA 11
9/29/07	61	1,073	732	12,876	AREA 11
10/1/07	110	1,183	1,320	14,196	AREA 11
10/2/07	76	1,259	912	15,108	AREA 11
10/3/07	47	1,306	564	15,672	AREA 11
10/8/07	102	1,408	1,224	16,896	AREA 11
10/9/07	96	1,504	1,152	18,048	AREA 11
10/31/07	22	1,526	264	18,312	AREA 11
11/1/07	52	1,578	624	18,936	AREA 11
11/2/07	60	1,638	720	19,656	AREA 11
11/3/07	48	1,686	576	20,232	AREA 11

TOTAL CUBIC YARDS
EXCAVATED/TRANSPORTED/PLACED TO POND 5 **20,232**

Asarco, El Paso Smelter

Daily Truck Count - Line Item E.1 - Load, Transport, Place 2' Intermediate Cover

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	REPOSITORY
10/29/07	34	34	357	357.0	Pond 5
10/30/07	21	55	220.5	577.5	Pond 5
10/31/07	39	94	409.5	987.0	Pond 5
11/1/07	36	130	378	1,365.0	Pond 5
11/2/07	37	167	388.5	1,753.5	Pond 5
11/3/07	18	185	189	1,942.5	Pond 5

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 1,942.5

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	11-12-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 11/05/07 – 11/11/07
Weather:	Temp Average: 62 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, November 5th –
Continuing excavation of Cat I material from the west end of Area 11 and hauled to the screening building. Continued screening Cat I material to be used for the 2’ Intermediate Cover for Pond 5. The oversize Cat I material from the screening operation was placed in Bin 11. Continued hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2’ Intermediate Cover. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. Continuing pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench. Continued breaking and sizing the concrete and sorting rebar in Area 11.

Tuesday, November 6th -
Continuing excavation of Cat I material from the west end of Area 11 and hauled to the screening building. Continued screening Cat I material to be used for the 2’ Intermediate Cover for Pond 5. The oversize Cat I material from the screening operation was placed in Bin 11. Continued hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2’ Intermediate Cover. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. Completed pulling down the containment berm in Pond 5 to expose the edge of the liner and anchor trench. Began excavation of the liner anchor trench around the perimeter of Pond 5. Continued breaking and sizing the concrete and sorting rebar in Area 11.

Wednesday, November 7th –
Continuing excavation of Cat I material from the west end of Area 11 and hauled to the screening building. Continued screening Cat I material to be used for the 2’ Intermediate Cover for Pond 5. The oversize Cat I material from the screening operation was placed in Bin 11. Continued hauling the screened Cat I material from the screening building and placed and compacted in Pond 5 for the 2’ Intermediate Cover. Completed hauling the screened, Cat I material to Pond 5 for the 2’ Intermediate Cover. The water truck was utilized for dust control in the work areas and haul road. Continued the excavation of the liner anchor trench around the perimeter of Pond 5. Continued breaking and sizing the concrete and sorting rebar in Area 11.

Thursday, November 8th -
Resumed hauling the clean clay material from Area 11 to the Area 12 slope. Began placing the clay cover on the east end of the Area 12 slope. Completed compaction and grading of the 2' Intermediate cover in Pond 5. The water truck was utilized for dust control in the work areas and haul road. Continued the excavation of the liner anchor trench around Pond 5. Continued breaking and sizing the concrete and sorting rebar in Area 11. Loaded and transported the oversize Cat I material from the screening building to Bin 11. Resumed screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6.

Friday, November 9th -
Continued hauling the clean clay material from Area 11 to the east end of the Area 12 slope. The water truck was utilized for dust control in the work areas and haul road. Continued the excavation of the liner anchor trench around Pond 5. Continued breaking and sizing the concrete and sorting rebar in Area 11. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6.

Saturday, November 10th -
Continued hauling the clean clay material from Area 11 to the center of the Area 12 slope. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. Continued the excavation of the liner anchor trench around the perimeter of Pond 5. Continued breaking and sizing the concrete and sorting rebar in Area 11. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6.

Sunday, November 11th – No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete anchor trench for Pond 5 and grading of cap area. Breaking and sizing of concrete debris in Area 11. Excavation, transporting, and placement of clean clay material from Area 11 to the Area 12 slope. Screening of clean overburden pile to be used for the final cap soil erosion layer for Ponds 5 and 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Jesus Chapa - Operator	Humberto Valenzuela – Field Tech
Lloyd Evans - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling Cat I material from Area 11 to screener. Hauling screened Cat I material to Pond 5. Hauling oversize Cat I material from screener to Bin 11. Hauling clean clay material from Area 11 to Area 12 slope.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **11/11/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/5/07	YES
Tuesday	11/6/07	YES
Wednesday	11/7/07	YES
Thursday	11/8/07	YES
Friday	11/9/07	YES
Saturday	11/10/07	YES
Sunday	11/11/07	NO
	TOTAL SCREENING DAYS NOVEMBER	**9**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/5/07	YES
Tuesday	11/6/07	YES
Wednesday	11/7/07	YES
Thursday	11/8/07	YES
Friday	11/9/07	YES
Saturday	11/10/07	YES
Sunday	11/11/07	NO
	TOTAL CONCRETE SIZING DAYS NOVEMBER	**9**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 12, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **11/11/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	11/5/07	From Area 11 to Pond 5 and from Screening/Bins Building to Pond 5
Tuesday	11/6/07	From Area 11 to Pond 5 and from Screening/Bins Building to Pond 5
Wednesday	11/7/07	Lower shoe assembly not working properly - ordered part
Thursday	11/8/07	Waiting on part for lower shoe assembly
Friday	11/9/07	Installed part on lower shoe assembly - Began from Pond 5 to Area 11
Saturday	11/10/07	From Area 11 to Pond 5 / From Screening/Bins Building to Pond 5 / From Guard shack to main offices
Sunday	11/11/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 12, 2007

Asarco, El Paso Smelter

AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 5

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
8/16/07	5	5	60	60	AREA 11
8/20/07	28	33	336	396	AREA 11
8/21/07	30	63	360	756	AREA 11
8/22/07	39	102	468	1,224	AREA 11
8/23/07	40	142	480	1,704	AREA 11
8/24/07	45	187	540	2,244	AREA 11
8/25/07	25	212	300	2,544	AREA 11
8/27/07	47	259	564	3,108	AREA 11
8/28/07	37	296	444	3,552	AREA 11
8/29/07	30	326	360	3,912	AREA 11
8/30/07	12	338	144	4,056	AREA 11
9/4/07	22	360	264	4,320	AREA 11
9/5/07	34	394	408	4,728	AREA 11
9/6/07	38	432	456	5,184	AREA 11
9/7/07	70	502	840	6,024	AREA 11
9/8/07	45	547	540	6,564	AREA 11
9/20/07	42	589	504	7,068	AREA 11
9/21/07	44	633	528	7,596	AREA 11
9/22/07	35	668	420	8,016	AREA 11
9/25/07	18	686	216	8,232	AREA 11
9/26/07	111	797	1,332	9,564	AREA 11
9/27/07	106	903	1,272	10,836	AREA 11
9/28/07	109	1,012	1,308	12,144	AREA 11
9/29/07	61	1,073	732	12,876	AREA 11
10/1/07	110	1,183	1,320	14,196	AREA 11
10/2/07	76	1,259	912	15,108	AREA 11
10/3/07	47	1,306	564	15,672	AREA 11
10/8/07	102	1,408	1,224	16,896	AREA 11
10/9/07	96	1,504	1,152	18,048	AREA 11
10/31/07	22	1,526	264	18,312	AREA 11
11/1/07	52	1,578	624	18,936	AREA 11
11/2/07	60	1,638	720	19,656	AREA 11
11/3/07	48	1,686	576	20,232	AREA 11
11/5/07	58	1,744	696	20,928	AREA 11
11/6/07	58	1,802	696	21,624	AREA 11
11/7/07	48	1,850	576	22,200	AREA 11

TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED TO POND 5 **22,200**

Asarco, El Paso Smelter

Daily Truck Count - Line Item E.1 - Load, Transport, Place 2' Intermediate Cover

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	REPOSITORY
10/29/07	34	34	357	357.0	Pond 5
10/30/07	21	55	220.5	577.5	Pond 5
10/31/07	39	94	409.5	987.0	Pond 5
11/1/07	36	130	378	1,365.0	Pond 5
11/2/07	37	167	388.5	1,753.5	Pond 5
11/3/07	18	185	189	1,942.5	Pond 5
11/5/07	44	229	462	2,404.5	Pond 5
11/6/07	37	266	388.5	2,793.0	Pond 5
11/7/07	40	306	420	3,213.0	Pond 5

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 3,213.0

Asarco, El Paso Smelter
Screening Clean Overburden for Final Soil Erosion Layer over Liner

Daily Truck Count - Line Item E.5 - 17" Soil Erosion Layer

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Overburden Pile
10/9/07	20	20	210.0	210.0	Unloading Building
10/10/07	36	56	378.0	588.0	Unloading Building
10/11/07	22	78	231.0	819.0	Unloading Building
10/12/07	18	96	189.0	1,008.0	Unloading Building
10/15/07	20	116	210.0	1,218.0	Unloading Building
10/16/07	17	133	178.5	1,396.5	Unloading Building
10/22/07	33	166	346.5	1,743.0	Unloading Building
10/23/07	68	234	714.0	2,457.0	Unloading Building
10/24/07	57	291	598.5	3,055.5	Unloading Building
10/25/07	60	351	630.0	3,685.5	Unloading Building
10/26/07	63	414	661.5	4,347.0	Unloading Building
10/27/07	20	434	210.0	4,557.0	Unloading Building
11/8/07	6	440	63.0	4,620.0	Unloading Building
11/9/07	10	450	105.0	4,725.0	Unloading Building
11/10/07	19	469	199.5	4,924.5	Unloading Building

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 4,924.5

Asarco, El Paso Smelter

AREA 12 SLOPE BACKFILL WITH CLEAN CLAY FILL FROM AREA 11

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
10/15/07	86	86	1032	1032	AREA 12
10/16/07	78	164	936	1968	AREA 12
10/17/07	55	219	660	2628	AREA 12
11/8/07	146	365	1752	4380	AREA 12
11/9/07	121	486	1452	5832	AREA 12
11/10/07	88	574	1056	6888	AREA 12
TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED IN AREA 12				**6,888**	

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	11-19-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 11/12/07 – 11/18/07
Weather:	Temp Average: 60 Rainfall Total for Week: 0.01”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, November 12th –
Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. Completed the excavation of the liner anchor trench around the perimeter of Pond 5. Continued breaking and sizing the concrete and sorting rebar in Area 11. Continuing grading work on the Area 12 slope.

Tuesday, November 13th -
Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6. At 11:35am the screening unit went down due to the main bearing broke on the main roller of the conveyor. Began removing parts from the screening unit in order to change out the broken bearing. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. Continued breaking and sizing the concrete and sorting rebar in Area 11. Resumed hauling of clean clay material from Area 11 to the Area 12 slope, in order to extend the toe of the slope and reduce the angle of the slope.

Wednesday, November 14th –
Continuing repairs to screening unit – removed old tail conveyor belt and bottom roller. Continued breaking and sizing the concrete and sorting rebar in Area 11. Continued hauling of clean clay material from Area 11 to the Area 12 slope. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Thursday, November 15th -
Continuing repairs to screening unit – replaced bearings on main roller for the tail discharge belt and replaced 4 conveyor rollers on the tail discharge. Continued breaking and sizing the concrete and sorting rebar in Area 11. Continued hauling of clean clay material from Area 11 to the Area 12 slope. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Friday, November 16th –
Continuing repairs to screening unit – continued installing rollers and began installing new conveyor belt on the tail discharge. Continued breaking and sizing the concrete and sorting rebar in Area 11. Continued hauling of clean clay material from Area 11 to the Area 12 slope. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. Lightening and rain storm developed during the lunch break, therefore the truck drivers were sent home after lunch due to the storm and wet conditions.

Saturday, November 17th -
Continuing repairs to screening unit – completed installing new conveyor belt on the tail discharge. Truck drivers did not work today in order to begin final grading of the Area 12 slope. The excavator was used in Area 11 to stockpile the Andesite rip rap that covers the investigation area along the south side of the upper entry haul road. Continued breaking and sizing the concrete and sorting rebar in Area 11.

Sunday, November 18th – No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Breaking and sizing of concrete debris in Area 11. Placement of Andesite rip rap along the toe of the Area 12 slope. Continue screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Matt Carpenter – Admin Project Manager	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling clean clay material from Area 11 to Area 12 slope. Hauling clean overburden soil from stockpile to screener and from screener to the screened soil pile.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Wednesday, November 14th – Meeting with ASARCO, Arcadis, CDM, Raba Kistner, ENTACT, and JL-D to discuss the overall remedial objectives and compliance with the Agreed TCEQ Order.

Friday, November 16th – ENTACT met with ASARCO to discuss the schedule for the Thanksgiving Holiday, and to discuss the site activities to be performed for the next few weeks. ENTACT will work through Wednesday, November 21st, then take off for the Thanksgiving Holiday. The crew will be back to work on Monday, November 26th. ENTACT will complete the grading of the Area 12 slope; place rip rap along the toe of the slope; install a clay berm along the top of the slope; separate the debris/wood/metal from the slag piles located on the east side of the Ephemeral Pond area; haul the slag from the east side of the Ephemeral Pond area and use it to grade the upper road between the bridges so that the road drains

toward the Ephemeral Pond side; and remove and haul slag some of the slag from the Ephemeral Pond drainage area and place up against the slope along the access road.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **11/18/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	11/12/07	From Pond 5 to Area 11
Tuesday	11/13/07	From Pond 5 to Area 11
Wednesday	11/14/07	From Pond 5 to Area 11
Thursday	11/15/07	From Pond 5 to Area 11
Friday	11/16/07	From Pond 5 to Area 11
Saturday	11/17/07	N/A
Sunday	11/18/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 19, 2007

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **11/18/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/12/07	YES
Tuesday	11/13/07	YES
Wednesday	11/14/07	YES/Repairs
Thursday	11/15/07	YES/Repairs
Friday	11/16/07	YES/Repairs
Saturday	11/17/07	YES/Repairs
Sunday	11/18/07	NO
	TOTAL SCREENING DAYS NOVEMBER	**15**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/12/07	YES
Tuesday	11/13/07	YES
Wednesday	11/14/07	YES
Thursday	11/15/07	YES
Friday	11/16/07	YES
Saturday	11/17/07	YES
Sunday	11/18/07	NO
	TOTAL CONCRETE SIZING DAYS NOVEMBER	**15**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 19, 2007

Asarco, El Paso Smelter

AREA 12 SLOPE BACKFILL WITH CLEAN CLAY FILL FROM AREA 11

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
10/15/07	86	86	1032	1032	AREA 12
10/16/07	78	164	936	1968	AREA 12
10/17/07	55	219	660	2628	AREA 12
11/8/07	146	365	1752	4380	AREA 12
11/9/07	121	486	1452	5832	AREA 12
11/10/07	88	574	1056	6888	AREA 12
11/13/07	150	724	1800	8688	AREA 12
11/14/07	153	877	1836	10524	AREA 12
11/15/07	141	1018	1692	12216	AREA 12
11/16/07	77	1095	924	13140	AREA 12
TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED IN AREA 12				**13,140**	

Asarco, El Paso Smelter
Screening Clean Overburden for Final Soil Erosion Layer over Liner

Daily Truck Count - Line Item E.5 - 17" Soil Erosion Layer

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Overburden Pile
10/9/07	20	20	210.0	210.0	Unloading Building
10/10/07	36	56	378.0	588.0	Unloading Building
10/11/07	22	78	231.0	819.0	Unloading Building
10/12/07	18	96	189.0	1,008.0	Unloading Building
10/15/07	20	116	210.0	1,218.0	Unloading Building
10/16/07	17	133	178.5	1,396.5	Unloading Building
10/22/07	33	166	346.5	1,743.0	Unloading Building
10/23/07	68	234	714.0	2,457.0	Unloading Building
10/24/07	57	291	598.5	3,055.5	Unloading Building
10/25/07	60	351	630.0	3,685.5	Unloading Building
10/26/07	63	414	661.5	4,347.0	Unloading Building
10/27/07	20	434	210.0	4,557.0	Unloading Building
11/8/07	6	440	63.0	4,620.0	Unloading Building
11/9/07	10	450	105.0	4,725.0	Unloading Building
11/10/07	19	469	199.5	4,924.5	Unloading Building
11/12/07	17	486	178.5	5,103.0	Unloading Building
11/13/07	10	496	105.0	5,208.0	Unloading Building

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 5,208.0

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	11-21-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 11/19/07 – 11/25/07
Weather:	Temp Average: 60 Rainfall Total for Week: 0.00" Chance of rain 11/22, 11/23, 11/24

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, November 19th –
Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6. Continued breaking and sizing the concrete and sorting rebar in Area 11. Began hauling the Andesite rip rap from Area 11 investigation area to the toe of the Area 12 slope. SLI Engineering was onsite to perform location survey of outer perimeter of Pond 5 repository and topographic survey of the top surface of the 2' Intermediate Cover.

Tuesday, November 20th -
Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6. Completed hauling the Andesite rip rap from Area 11 investigation area to the toe of the Area 12 slope. The investigation area was then graded to accommodate a drilling rig to bore test holes.

Wednesday, November 21st –
Continue final grading on the Area 12 slope. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control on the haul roads. Performing maintenance to screening unit. The equipment in Area 11 was moved across the bridges back on the plant side for the holiday break.

Thursday, November 22th – Sunday, November 25th
Thanksgiving Holiday. No Site Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Placement of Andesite rip rap along the toe of the Area 12 slope. Continue screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6. Liner crew will mobilize and place final cap liner system over Pond 5. Begin segregating debris from slag piles east of Ephimeral Pond. Haul slag from the Ephimeral Pond area to the upper haul road and grade road.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
	Dan Johnson - Operator
Juan Carrillo - Operator	Miguel Hernandez-Gonzalez – Field Tech
	Raul Fernandez – Field Tech
	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling clean overburden soil from stockpile to screener and from screener to the screened soil pile. Hauling rip rap from Area 11 to the Area 12 toe of slope.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

Safety meetings were used to discuss the increased truck and equipment activity around the Unloading Building.

A CDM representative was walking around the Unloading Building and was not wearing a safety vest, making it more difficult for the operators and truck drivers to see him. It is necessary to wear a safety vest and make eye contact with operator before walking around/behind/in front of equipment or trucks.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

The congestion around the Unloading building is increasing due both asphalt and screening operations operating in the same tight area. A ramp was constructed at the north end of the Unloading building on the Entact screening side to redirect the screened truck traffic away from the back of the building. Trucks leaving the south end of the Entact screening building must wait for the asphalt loader operator to finish feeding the pugmill in order to avoid a collision when the loader backs up towards the door to the screening plant.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **11/25/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/19/07	YES
Tuesday	11/20/07	YES
Wednesday	11/21/07	NO
Thursday	11/22/07	NO
Friday	11/23/07	NO
Saturday	11/24/07	NO
Sunday	11/25/07	NO
	TOTAL SCREENING DAYS NOVEMBER	**17**

Concrete Sizing - AREA 11

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/19/07	YES
Tuesday	11/20/07	YES
Wednesday	11/21/07	NO
Thursday	11/22/07	NO
Friday	11/23/07	NO
Saturday	11/24/07	NO
Sunday	11/25/07	NO
	TOTAL CONCRETE SIZING DAYS NOVEMBER	**17**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 21, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **11/25/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	11/19/07	N/A
Tuesday	11/20/07	N/A
Wednesday	11/21/07	From Pond 5 to Area 11 and from Guard Shack to Asarco Office
Thursday	11/22/07	Holiday
Friday	11/23/07	Holiday
Saturday	11/24/07	Holiday
Sunday	11/25/07	Holiday

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE November 21, 2007

Asarco, El Paso Smelter

AREA 12 LOAD/HAUL RIP RAP FROM AREA 11 AND PLACE AT TOE OF SLOPE AREA 12

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 6CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
11/19/07	42	42	252	252	TOE SLOPE - AREA 12
11/20/07	38	80	228	480	TOE SLOPE - AREA 12
TOTAL CUBIC YARDS RIP RAP LOADED/TRANSPORTED/PLACED IN AREA 12				**480**	

* 8CY SINGLE AXLE DUMP TRUCKS USED TO TRANSPORT RIP RAP - EACH HOLDS APPROXIMATELY 6CY OF BLOCK RIP RAP

Asarco, El Paso Smelter
Screening Clean Overburden for Final Soil Erosion Layer over Liner

Daily Truck Count - Line Item E.5 - 17" Soil Erosion Layer

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Overburden Pile
10/9/07	20	20	210.0	210.0	Unloading Building
10/10/07	36	56	378.0	588.0	Unloading Building
10/11/07	22	78	231.0	819.0	Unloading Building
10/12/07	18	96	189.0	1,008.0	Unloading Building
10/15/07	20	116	210.0	1,218.0	Unloading Building
10/16/07	17	133	178.5	1,396.5	Unloading Building
10/22/07	33	166	346.5	1,743.0	Unloading Building
10/23/07	68	234	714.0	2,457.0	Unloading Building
10/24/07	57	291	598.5	3,055.5	Unloading Building
10/25/07	60	351	630.0	3,685.5	Unloading Building
10/26/07	63	414	661.5	4,347.0	Unloading Building
10/27/07	20	434	210.0	4,557.0	Unloading Building
11/8/07	6	440	63.0	4,620.0	Unloading Building
11/9/07	10	450	105.0	4,725.0	Unloading Building
11/10/07	19	469	199.5	4,924.5	Unloading Building
11/12/07	17	486	178.5	5,103.0	Unloading Building
11/13/07	10	496	105.0	5,208.0	Unloading Building
11/19/07	50	546	525.0	5,733.0	Unloading Building
11/20/07	25	571	262.5	5,995.5	Unloading Building

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORTED TO SCREEN - SCREENED/LOADED/TRANSPORTED TO SCREENED STOCKPILE **5,995.5**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	12-03-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 11/26/07 – 12/02/07
Weather:	Temp Average: 49 Rainfall Total for Week: 0.21”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, November 26th –
Transported the stored liner materials from inside the Bins Building to Pond 5. Liner crew mobilized and went through the site safety orientation. The liner crew completed installation of the Geosynthetic Clay Layer and began installing and welding the 40mil liner over Pond 5. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Pond 5. Began placement of the rip rap along the toe of the Area 12 slope. Began segregating wood, metal, and concrete debris in the east Ephemeral Pond area using the Cat 325 excavator with the concrete processing attachment. The segregated debris was loaded and hauled to the existing wood, metal, and concrete debris piles in Area 11. Began to excavate and haul the slag piles located on the east side of the Ephemeral Pond over to the slope south of the Ephemeral Pond. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. Border Tanks delivered (3)-500 gallon temporary diesel fuel tanks.

Tuesday, November 27th –
The liner crew completed the welding and testing of the 40mil liner and also completed installation of the Geocomposite Drainage layer over Pond 5. The liner crew cleaned up the area around Pond 5 and then demobilized. Began backfilling the liner anchor trench around the perimeter of Pond 5. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final soil erosion layer for Pond 5. Continuing to excavate and haul the slag piles located on the east side of the Ephemeral Pond over to the slope south of the Ephemeral Pond. Continuing segregating wood, metal, and concrete debris in the east Ephemeral Pond area using the Cat 325 excavator with the concrete processing attachment. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Wednesday, November 28th –
Began loading the screened clean overburden soil from the stockpile and transported and placed over the liner on Pond 5 for the final soil erosion layer. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Pond 5. Continuing segregating wood, metal, and concrete debris in the east Ephemeral Pond area using the Cat

325 excavator with the concrete processing attachment. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Thursday, November 29th -
Completed loading the screened clean overburden soil from the stockpile and transported and placed over the liner on Pond 5 for the final soil erosion layer. Approximately 2' of soil was placed over the top of the liner. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Ponds 5 and 6. Continuing segregating wood, metal, and concrete debris in the east Ephemeral Pond area using the Cat 325 excavator with the concrete processing attachment. Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Friday, November 30th –
Light rain over night and early morning. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final cap soil erosion layer for Pond 6. Continuing to excavate and haul the slag piles located on the east side of the Ephemeral Pond over to the slope south of the Ephemeral Pond. Continuing segregating wood, metal, and concrete debris in the east Ephemeral Pond area using the Cat 325 excavator with the concrete processing attachment. The segregated debris was loaded and hauled to the existing wood, metal, and concrete debris piles in Area 11. Elgin Pelican sweeper was used to clean the haul roads.

Saturday, December 1st -
Light rain over night and early morning. Did not haul with dump trucks today due to wet conditions. Continued to grade the slope south of the Ephemeral Pond. Continued to excavate and stockpile slag to be eventually hauled to the south slope.

Sunday, December 2nd– No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue to haul slag from the east end of the Ephemeral Pond and transport to the south slope. Grading the south slope and upper haul road. Screening the remaining clean overburden pile. Segregating wood, metal, and concrete in the Ephemeral Pond area and processing of concrete debris.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Juan Carrillo - Operator	Miguel Hernandez-Gonzalez – Field Tech
Lloyd Evans - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling clean overburden soil from stockpile to screener and from screener to the screened soil pile; Hauling screened overburden to Pond 5 for the Soil Erosion Layer; Hauling slag from the east Ephemeral Pond area to the south slope.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Thursday, November 29th – Weekly Progress meeting with ASARCO, CDM, ENTACT and JL-D.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **12/2/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/26/07	YES
Tuesday	11/27/07	YES
Wednesday	11/28/07	YES
Thursday	11/29/07	YES
Friday	11/30/07	YES
Saturday	12/1/07	NO
Sunday	12/2/07	NO
	TOTAL SCREENING DAYS NOVEMBER	**22**

Concrete Sizing - AREA 11 & Ephemeral Pond

Day of Week	Date	Daily Task Performed YES/NO
Monday	11/26/07	YES
Tuesday	11/27/07	YES
Wednesday	11/28/07	YES
Thursday	11/29/07	YES
Friday	11/30/07	YES
Saturday	12/1/07	NO
Sunday	12/2/07	NO
	TOTAL CONCRETE SIZING DAYS NOVEMBER	**22**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE December 3, 2007

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **12/2/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	11/26/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Tuesday	11/27/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Wednesday	11/28/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Thursday	11/29/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Friday	11/30/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Saturday	12/1/07	N/A
Sunday	12/2/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE December 3, 2007

Asarco, El Paso Smelter

Daily Truck Count - Line Item E.5 - Soil Erosion Layer

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	REPOSITORY
11/28/07	166	166	1743	1,743.0	Pond 5
11/29/07	266	432	2793	4,536.0	Pond 5

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 4,536.0

Asarco, El Paso Smelter

EPHEMERAL POND AREA - EXCAVATE/LOAD/HAUL SLAG FROM EAST END EPHEMERAL POND AND PLACE ON SOUTH SLOPE AND UPPER HAUL ROAD

Daily Truck Count - Line Item D.2 - Excavate Material from Designated Areas, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESIGNATED AREA
11/26/07	42	42	504	504	EPHEMERAL POND - SOUTH SLOPE/HAUL ROAD
11/27/07	143	185	1716	2220	EPHEMERAL POND - SOUTH SLOPE/HAUL ROAD
11/30/07	100	285	1200	3420	EPHEMERAL POND - SOUTH SLOPE/HAUL ROAD
TOTAL CUBIC YARDS SLAG EXCAVATED/ LOADED/TRANSPORTED/PLACED				**3,420**	

* 3CY Bucket on 330 Excavator - 4 buckets per Truck Load = 12CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	12-10-07
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 12/03/07 – 12/09/07
Weather:	Temp Average: 56 Rainfall Total for Week: Trace

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, December 3rd –
Continuing to excavate and haul slag from the east side of the Ephemeral Pond over to the slope south of the Ephemeral Pond. Continuing to fill and grade the slope south of the Ephemeral Pond. Completed segregating wood, metal, and concrete debris in the east Ephemeral Pond area utilizing the Cat 325 excavator with the concrete processing attachment. The segregated debris was loaded and hauled to the existing wood, metal, and concrete debris piles in Area 11. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final soil erosion layer for Pond 6. The Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Tuesday, December 4th –
Continuing to excavate and haul slag from the east side of the Ephemeral Pond over to the slope south of the Ephemeral Pond. Continuing to fill and grade the slope south of the Ephemeral Pond. Continued screening of clean overburden material from the stockpile adjacent to the screening building to be used for the final soil erosion layer for Pond 6. The Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road. El Paso Disposal picked up the roll-off box used by the liner crew for the scrap pieces of liner. Utilized the Cat 325 excavator with the concrete processing attachment to load wood debris stockpiled in Area 11 into two roll-off boxes that ASARCO already had on-site.

Wednesday, December 5th –
Completed excavating and hauling slag from the east side of the Ephemeral Pond over to the slope south of the Ephemeral Pond. Continuing to fill and grade the slope south of the Ephemeral Pond. Completed the final grading of the Soil Erosion layer over Pond 5 and rolled entire surface with smooth drum roller. Loaded and hauled processed concrete from Area 11 and transported and stockpiled on the east side of the Ephemeral Pond. The processed concrete will be utilized for erosion control on the deep undercut area of the Slag Fines pile in the upstream portion of the drainage channel. Began excavation of the new stormwater diversion channel south of the Slag Fines pile. The excavated material was hauled to the Slag Fines pile along the south toe of slope. The Elgin Pelican sweeper was used to clean the haul roads and

the water truck was utilized for dust control in the work areas and haul road. Continued breaking and sizing the concrete and sorting rebar in Area 11.

Thursday, December 6th -
Excavating slag material from the east side of the Ephemeral pond and hauled to the upper haul road between the two bridges. Grading the slag material over the upper haul road area. Completed the grading work on the slope, south of the Ephemeral Pond. Began hauling the clean clay material from Area 11 to the east side of Pond 6 to begin construction of stormwater berms to prevent runoff from entering Pond 6. Began hauling clean clay material from Area 11 to the east end of Area 12 and began construction of stormwater berm along the top of slope in order to divert stormwater runoff from Interstate 10 over to the natural drainage area and away from Area 12. The Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Friday, December 7th –
Completed hauling the clean clay material from Area 11 to Pond 6 and completed construction of stormwater berms along the east end and north side of the Pond. Completed hauling slag material from the east side of the Ephemeral pond to the upper haul road between the two bridges and completed grading the slag material over the upper haul road area. Continued excavation of the new stormwater diversion channel south of the Slag Fines pile. The excavated material was hauled to the Slag Fines pile along the south toe of slope. Began placement of the stockpiled riprap in Area 12 along the toe of the Area 12 slope. The Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Saturday, December 8th -
Continued excavation of the new stormwater diversion channel south of the Slag Fines pile. The excavated material was hauled to the Slag Fines pile along the south toe of slope. Continued placement of the stockpiled riprap in Area 12 along the toe of the Area 12 slope. The Elgin Pelican sweeper was used to clean the haul roads and the water truck was utilized for dust control in the work areas and haul road.

Sunday, December 9th– No Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue construction of the stormwater diversion channel in the Ephemeral Pond/Slag Fines Pile area.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Juan Carrillo - Operator	Miguel Hernandez-Gonzalez – Field Tech
Lloyd Evans - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 6 Drivers	Hauling slag from the east Ephemeral Pond area to the south slope and upper haul road; hauling clay material from Area 11 to Pond 6 for construction of berms; hauled processed concrete from Area 11 to the Ephemeral Pond

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Wednesday, December 5th – Pond 6 Repository design meeting with ENTACT (Kirk Gates, Greg Dambold, Mike Carlson), ASARCO and CDM.

Thursday, December 6th – Weekly Progress meeting with ASARCO, CDM, ENTACT and JL-D.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 Week Ending

LOCATION: El Paso, Texas **12/9/2007**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	12/3/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Tuesday	12/4/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Wednesday	12/5/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Thursday	12/6/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Friday	12/7/07	From Pond 5 to Screening Building and from Pond 5 to Area 11 Bridges
Saturday	12/8/07	N/A
Sunday	12/9/07	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE December 11, 2007

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **12/9/2007**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	12/3/07	YES
Tuesday	12/4/07	YES
Wednesday	12/5/07	NO
Thursday	12/6/07	NO
Friday	12/7/07	NO
Saturday	12/8/07	NO
Sunday	12/9/07	NO
	TOTAL SCREENING DAYS DECEMBER	**2**

Concrete Sizing - AREA 11 & Ephemeral Pond

Day of Week	Date	Daily Task Performed YES/NO
Monday	12/3/07	YES
Tuesday	12/4/07	YES
Wednesday	12/5/07	YES
Thursday	12/6/07	NO
Friday	12/7/07	NO
Saturday	12/8/07	NO
Sunday	12/9/07	NO
	TOTAL CONCRETE SIZING DAYS DECEMBER	**3**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE December 11, 2007

Asarco, El Paso Smelter
AREA - EPHEMERAL POND GRADING AND STORMWATER EROSION WORK

Daily Truck Count - Line Item D.2 - Excavate Slag Material, Transport, Place; Excavate Clean Clay from Area 11 and Transport, Place; Load Processed Concrete from Area 11, Transport, Place

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD	CUBIC YARDS TO DATE	DESCRIPTION
12/3/07	118	118	1416	1,416	Slag E. Pond to Slope
12/4/07	132	250	1584	3,000	Slag E. Pond to Slope
12/5/07	40	290	480	3,480	Processed Concrete Area 11 for Erosion Control in Drainage Channel
12/5/07	59	349	708	4,188	Slag E. Pond to Slope
12/6/07	12	361	144	4,332	Area 11 Clay to Area 12 Berm Along Interstate
12/6/07	72	433	864	5,196	Slag E. Pond to Upper Haul Road
12/7/07	23	456	276	5,472	Area 11 Clay to Area 12 Berm Along Interstate
12/7/07	80	536	960	6,432	Slag E. Pond to Upper Haul Road
TOTAL CUBIC YARDS EXCAVATED/TRANSPORTED/PLACED				**6,432**	

Appendix J Construction Progress Reports – Category I Excavation & Landfills

J.3 CDM 2007 Daily Construction Reports

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Nov 27, 2007 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy TEMPERATURE: 34am, 50pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed installation of liner on Pond 5.
- Screening of clean fill material for final cap installation on Pond 5.
- Grading of North Slope and removal of slag in Area 12.
- Grading of south slope

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	27 Nov 2007		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Nov 28, 2007 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Overcast TEMPERATURE: 42am, 60pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT completed installation of liner on Pond 5.
- Begin installation of 2-foot clean fill final cap on Pond 5. Cap thickness ranges from 17-inches to 24 inches to allow drainage away from existing structures/buildings and to divert flow towards northwest side of pond. Six trucks and loader were used to load and haul clean fill to Pond 5 from screening area.
- Grading of North Slope and clearing of existing material (wood, metal) in north side of Area 12.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	28 Nov 2007		

CDM
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El Paso, Texas 79902
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Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Nov 29, 2007 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy TEMPERATURE: 43am, 59pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Weekly Progress Meeting – 9:00 to 10:30
- ENTACT resumed installation of 2-foot clean fill final cap on Pond 5.
- Grading of North Slope and clearing of existing material (wood, metal) in north side of Area 12.
- Installation of fill for Pond 5 final cap completed.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	29 Nov 2007		

4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Nov 30, 2007 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Overcast TEMPERATURE: 51am, 59pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Compaction and grading of final clean fill cap on Pond 5.
- Clearing of existing wood and metal debris from Area 11.
- Grading and compaction of North Slope in Area 12.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	30 Nov 2007		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 03, 2007 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 40am, 55pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resume compaction and grading of 2-foot clean fill cap on Pond 5. Landfill is being graded to divert flow away from existing structures, in the northwest direction.
- Grading of North Slope and removal of slag in Area 12.
- Clearing of existing material (railroad ties, metal etc.) in Area 11.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	03 Dec 2007		

CDM
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Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 04, 2007 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Clear TEMPERATURE: 38am, 61pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT complete compaction and grading of 2-foot clean fill cap on Pond 5.
- Grading and stabilization of North Slope and removal of slag in Area 12.
- Clearing of existing material (railroad ties, metal etc.) in Area 11.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	04 Dec 2007		

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Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 05, 2007 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Clear TEMPERATURE: 40am, 65pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Begin excavation of channel in Area 12 to divert stormwater away from slag fines pile.
- Grading and stabilization of North Slope and removal of slag in Area 12.
- Clearing of existing material (railroad ties, metal etc.) in Area 11.
- Meeting to discuss Pond 6 - ENTACT design & construction teams, ASARCO and CDM.
- ASARCO directed ENTACT to discontinue excavation of channel for temporary drainage control in Area 12, at least till end of the year.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	05 Dec 2007		

CDM
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El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 06, 2007 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy TEMPERATURE: 55am, 67pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Grading and stabilization of North Slope in Area 12.
- Begin excavation/grading for construction of temporary stormwater control berms on east side of Pond 6.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Hemanth Haft CDM – RPR	06 Dec 2007		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 07, 2007 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy TEMPERATURE: 55am, 67pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed grading and stabilization of North Slope in Area 12.
- Resumed and finished excavation/grading for construction of temporary stormwater control berms on east side of Pond 6.
- Started breaking slag pile with jackhammer attachment to resume the diversion channel south of the slag pile.
- Sloped from south to north in between bridges.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	07 Dec 2007		

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Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 08, 2007 (Saturday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy TEMPERATURE: 55am, 67pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed grading and stabilization of North Slope in Area 12.
- Resumed breaking slag pile with jackhammer attachment to resume the diversion channel south of the slag pile.
- Placed rip rap with on site concrete rubble at the south base of the slag pile north of the diversion channel.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	08 Dec 2007		

CDM
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El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 10, 2007 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy, raining TEMPERATURE: 39am, 58pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed breaking slag pile with jackhammer attachment to resume the diversion channel south of the slag pile.
- Resumed placing rip rap with on site concrete rubble at the south base of the slag pile north of the diversion channel.
- ENTACT left at about 2:00PM due to ongoing rains.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	10 Dec 2007		

CDM
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Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 11, 2007 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy TEMPERATURE: 39am, 58pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed breaking slag pile with jackhammer attachment to resume the diversion channel south of the slag pile.
- Resumed placing rip rap with on site concrete rubble at the south base of the slag pile north of the diversion channel.
- Stockpiled broken on site rip rap rubble at Area 11 for later use at Area 12.
- Dump trucks used to transport stockpiled material by the Screening Plant to Area 12 and used as fill.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	11 Dec 2007		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 12, 2007 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy TEMPERATURE: 35am, 57pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Started access roadway to the monitoring well down by the slag pile.
- Resumed placing rip rap with on site concrete rubble at the south base of the slag pile north of the diversion channel and also placed it at the bottom north side of the access road by the bridge.
- Placed berm on the south top of access roadway by the bridge at Area 12.
- Stockpiled broken on site rip rap rubble at Area 11 for later use at Area 12.
- Dump trucks used to transport stockpiled clay material from Area 11 to Area 12 for the diversion channel banks.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	12 Dec 2007		

CDM
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El Paso, Texas 79902
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Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 13, 2007 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 32am, 56pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed and completed access roadway to the monitoring well down by the slag pile.
- Resumed placing rip rap with on site concrete rubble at the south base of the slag pile north of the diversion channel and also placed it at the bottom north side of the access road by the bridge.
- Stockpiled broken on site rip rap rubble at Area 11 for later use at Area 12.
- Resumed using dump trucks to transport stockpiled clay material from Area 11 to Area 12 for the diversion channel banks.
- Progress Meeting No.3 held today.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	13 Dec 2007		

CDM
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El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 14, 2007 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 32am, 52pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed placing rip rap with on site concrete rubble at the south base of the slag pile north of the diversion channel and also placed it at the bottom north side of the access road by the bridge.
- Resumed stockpiling broken on site rip rap rubble at Area 11 for later use at Area 12.
- Resumed using dump trucks to transport stockpiled clay material from Area 11 to Area 12 for the diversion channel banks.
- Raba-Kistner drilling team on site. Marked with wooden markers in ground for test holes. Seven holes drilled.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	14 Dec 2007		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 15, 2007 (Saturday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 30am, 46pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed placing rip rap with on site concrete rubble at the south base of the slag pile north of the diversion channel and also placed it at the bottom north side of the access road by the bridge.
- Resumed stockpiling broken on site rip rap rubble at Area 11 for later use at Area 12.
- Resumed using dump trucks to transport stockpiled clay material from Area 11 to Area 12 for the diversion channel banks.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s). Advised Kirk that water needed to be sprayed in Area 12 to prevent better dust control. Water was then sprayed with the water truck.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	15 Dec 2007		

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Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 17, 2007 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 28am, 59pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Storm water prevention was done at Area 11 by placing berms on the northern and western sides of the area. This activity will take place the remainder of the week up until the holiday break.
- Raba-Kistner was back on site drilling test holes at Area 12.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	17 Dec 2007		

CDM
4110 Rio Bravo Drive, Suite 201
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Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 18, 2007 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 32am, 62pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Again, storm water prevention was done at Area 11 by placing berms on the northern and western sides of the area. This activity will take place the remainder of the week up until the holiday break.
- Raba-Kistner again on site drilling test holes at Area 12.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	18 Dec 2007		

CDM
4110 Rio Bravo Drive, Suite 201
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Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 19, 2007 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 34am, 62pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Once again, storm water prevention was done at Area 11 by placing berms on the northern and western sides of the area. This activity will take place the remainder of the week up until the holiday break.
- Raba-Kistner on site again drilling at Area 11.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	19 Dec 2007		

CDM
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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 20, 2007 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 33am, 61pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT did not perform any work today due to all employees taking their HAZWOPER course.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	20 Dec 2007		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
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Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Dec 21, 2007 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 34am, 60pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT did not perform any field work today.
- ENTACT will resume work activities on Jan 03, 2008.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	21 Dec 2007		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 03, 2008 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly sunny, light breeze TEMPERATURE: 28am, 57pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT started the removal of the existing chain link fence south of Pond 6 and all other existing structures and utilities that need to be removed to provide access and capping of Pond 6.
- Excavated at Area 11 to remove the auger that was left in the bore hole by Raba-Kistner during their boring activities in Dec. 2007.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	03 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 04, 2008 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly Sunny TEMPERATURE: 38am, 60pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT started and finished scraping the sides of Pond 6. The bottom was started today and should be completed by tomorrow. The dirty material was stockpiled on the northeast corner of the Pond.
- Existing concrete slabs were found at the southeast corner of the Pond and will require a bigger hammer for the concrete to be broken up.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	04 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 05, 2008 (Saturday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, windy pm TEMPERATURE: 40am, 65pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT finished scraping the bottom of Pond 6. The dirty material was stockpiled on the northeast corner of the Pond.
- The hammer that was ordered to break up the existing concrete slabs was not delivered on time today and will possibly require Sunday work according to Sam Moss of ENTACT.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	05 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 07, 2008 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, windy pm 25-50mph TEMPERATURE: 40am, 60pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed breaking the concrete yesterday (Sunday) that was found last week.
- Started removing Cat 2 material from Pond 6 with dump trucks and placed it in Bins 2 and 4.
- Advised Walter (ASARCO) that it was very windy outside and dust was being created by the Contractor's activities. Walter stated that as long as the effort is being made to wet down the soil, it should be okay.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	07 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 08, 2008 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 41am, 63pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed breaking the 3' thick concrete that was found last week.
- Resumed removing Cat 2 material from Pond 6 with dump trucks and placed it in Bins 2 and 4.
- Started placing and compacting soil at the bottom of the Pond 6 banks.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	08 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 09, 2008 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, windy pm TEMPERATURE: 37am, 63pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed breaking the 3' thick concrete that was found last week.
- Resumed removing Cat 2 material from Pond 6 with dump trucks and placed it in Bins 2 and 4.
- Resumed placing and compacting soil at the bottom of the Pond 6 banks.
- Also resumed removing the existing utilities in the area there such as water and electrical lines.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	09 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 10, 2008 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, light breeze TEMPERATURE: 35am, 63pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT finished breaking the 3' thick concrete that was found last week.
- Resumed removing Category 1 material from Pond 6 with dump trucks and placed it in Bins 2 and 4.
- Resumed placing and compacting soil at the bottom of the Pond 6 banks.
- Progress Meeting No.4 was held today at ASARCO.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	10 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 11, 2008 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, light breeze TEMPERATURE: 34am, 64pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Finished removing Category 1 material from Pond 6.
- Started building a ramp into Pond 6 with clean soil from Area 11.
- Resumed placing and compacting soil at the bottom of the Pond 6 banks.
- Received from Kirk a CD 1.0 - 6.0 Tasks that were requested by ASARCO in a letter that stated to be turned in on 12-15-07.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	11 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 12, 2008 (Saturday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, light breeze TEMPERATURE: 34am, 64pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Finished removing Category 1 material from Pond 6.
- Started building a ramp into Pond 6 with clean soil from Area 11.
- Resumed placing and compacting soil at the bottom of the Pond 6 banks.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	12 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 14, 2008 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly sunny, windy TEMPERATURE: 28am, 55pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Finished building a ramp into Pond 6 with clean soil from Area 11.
- Resumed placing and compacting soil at the bottom and of the slopes of the Pond 6 banks. Water truck was used to spray down the soil.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	14 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 15, 2008 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly sunny TEMPERATURE: 28am, 54pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Resumed placing and compacting soil at the bottom and on the slopes of the Pond 6 banks. Material was hauled in from Area 11. The water truck was used to spray down the soil.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	15 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 16, 2008 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly sunny TEMPERATURE: 28am, 54pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- The following information was provided by Tyler Irwin of CDM.
- ENTACT resumed placing and compacting soil at the bottom and on the slopes of the Pond 6 banks from material that was hauled in from Area 11. The water truck was used to spray down the soil.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	18 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 17, 2008 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly sunny TEMPERATURE: 28am, 54pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- The following information was provided by Tyler Irwin of CDM.
- Again ENTACT resumed placing and compacting soil at the bottom and on the slopes of the Pond 6 banks from material that was hauled in from Area 11. The water truck was used to spray down the soil.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	18 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 18, 2008 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly sunny, breezy TEMPERATURE: 22am, 47pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- Again, ENTACT resumed placing and compacting soil at the bottom and on the slopes of the Pond 6 banks from material that was hauled in from Area 11. The water truck was used to spray down the soil.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	18 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 19, 2008 (Saturday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, breezy TEMPERATURE: 19am, 51pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT stockpiled existing clay material at Area 11 for hauling on Monday according to Sam Moss.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	19 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 21, 2008 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, breezy TEMPERATURE: 26am, 60pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT hauled native material from Area 11 to Pond 6 using dump trucks. There they rolled and compacted the soil in the pond.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	21 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 22, 2008 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly Sunny TEMPERATURE: 30am, 60pm

Manpower on site: 1 Manager 1 Superintendent 3 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. There they rolled and compacted the soil in the pond.
- Raba-Kistner collected two soil samples from the material in Pond 6 that was brought in from Area 11. Blind density tests were also conducted using a 125.0.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	22 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 23, 2008 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly Sunny TEMPERATURE: 32am, 57pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	23 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 24, 2008 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly Sunny, rain AM TEMPERATURE: 33am, 53pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond.
- Progress Meeting No.5 held today at ASARCO conference room.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	24 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 25, 2008 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly Sunny TEMPERATURE: 33am, 60pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	25 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 26, 2008 (Saturday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Partly Sunny TEMPERATURE: 33am, 65pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	26 Jan 2008		

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ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 28, 2008 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy, raining TEMPERATURE: 44am, 66pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	28 Jan 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 29, 2008 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 45am, 62pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.
- Pat Dentler (CDM) made a site visit today.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	29 Jan 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 30, 2008 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, windy TEMPERATURE: 37am, 61pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	30 Jan 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Jan 31, 2008 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, breezy TEMPERATURE: 30am, 47pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	31 Jan 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Feb 01, 2008 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, breezy TEMPERATURE: 28am, 59pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.
- Charles Powers of Raba-Kistner took Density tests at Pond 6. all tests passed.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	01 Feb 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Feb 04, 2008 (Monday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, breezy TEMPERATURE: 40am, 60pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	04 Feb 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Feb 05, 2008 (Tuesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Cloudy, breezy TEMPERATURE: 37am, 50pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	05 Feb 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Feb 06, 2008 (Wednesday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, breezy TEMPERATURE: 22am, 54pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.
- Charles (R-K) took density tests at Pond 6. Tests passed.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	06 Feb 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Feb 07, 2008 (Thursday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny, light breeze TEMPERATURE: 34am, 62pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.
- Progress Meeting No.6 was held today at the ASARCO office.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	07 Feb 2008		

CDM
4110 Rio Bravo Drive, Suite 201
El Paso, Texas 79902
Tel: 915-544-2340
Fax: 915-544-1345

ASARCO, El Paso Plant - Remedial Waste Repository Project
CDM DAILY CONSTRUCTION REPORT

DATE: Feb 08, 2008 (Friday)

PROJECT: **ASARCO REMEDIAL WASTE REPOSITORY PROJECT**
OWNER: **ASARCO**
CONTRACTOR: **ENTACT**

WEATHER: Sunny TEMPERATURE: 41am, 69pm

Manpower on site: 1 Manager 1 Superintendent 5 Truck Drivers/Sweepers/Spotters

Equipment on site: 2-Dozers 2-Excavators 1-Excavator (w/ Processor Head)
1- Water truck 1-Sweeper 1-Compactor
2-Rubber Tire Loaders

Activities for today:

- ENTACT resumed hauling native material from Area 11 to Pond 6 using dump trucks. This is for the capping of Pond 6. The material was rolled and compacted in the pond. The water truck was used to spray down the work areas.

SAFETY (Including any infractions of safety regulation from owner. Specify corrective action/s).

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIAL	DATE
Walter E. Smith Jr. CDM – CM/RPR	08 Feb 2008		

Appendix J Construction Progress Reports – Category I Excavation & Landfills

J.4 ENTACT 2008 Weekly Project Summaries

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	01-07-08
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 12/31/07 – 01/06/08
Weather:	Temp Average: 44 Rainfall Total for Week: Trace

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, December 31st, 2007 – Wednesday, January 2nd, 2008
No Site Activities during Holiday Break.

Thursday, January 3rd -
Excavated and removed the section of broken drill stem that had been dropped in the bottom of a core hole during the investigation in Area 11. Moved all equipment over to Pond 6 to begin preliminary work. Removed the chain link fence from behind the Laboratory Building at Pond 6. Picked up pipe, wood debris, and materials inside the fenced area and moved out of the way behind the Laboratory Building. Constructed a ramp on the east side of Pond 6 to have access into the bottom of the cell. Removed the metal walkway, stairs and water storage tank from the side of the Laboratory Building. Began removing and processing the concrete slab from the fenced area behind the Laboratory Building. Uncovered 4' thick concrete pads that had been buried behind the Laboratory Building – foundations from the original Oxygen Plant. Began scraping Category I material from the slopes and bottom of Pond 6 and staging in the northeast corner of the cell. The water truck was used for dust control in the work area.

Friday, January 4th –
Removed the small brick wall along the north slope of Pond 6. Continued scraping Category I material from the slopes and bottom of Pond 6 and staging in the northeast corner of the cell. Continued processing concrete that was removed from the thin concrete slab behind the Laboratory Building. Dug a trench in order to bury the electric conduit to re-route the power line to the Laboratory Building. Completed scraping the Category I material from the side slopes of Pond 6. The water truck was used for dust control in the work area.

Saturday, January 5th -
Completed scraping Category I material from the bottom of Pond 6 and staging in the northeast corner of the cell. Pushed up the material located in Bins 2 & 4 to make room for the Category I material from Pond 6. Continued processing concrete from the concrete pad demolition work. Segregating metal and rebar from the processed concrete. Began cutting out the southeast corner of Pond 6 and transferring the material along the south slope. The water truck was used for dust control in the work area.

Sunday, January 6th–
Continued processing concrete from the concrete pad demolition work. Segregating metal and rebar from the processed concrete. Continued cutting out the southeast corner of Pond 6 and transferring the material along the south slope. Built up berm along the northeast corner of Pond 6 due to possibility of rain. The water truck was used for dust control in the work area.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Load out the staged Category I material from Pond 6 and transport and stockpile inside the Bins Building (Bins 2 & 4). Continue removal of concrete foundations from southeast corner of Pond 6 and processing concrete. Continue cutting the southeast corner of Pond 6 and transferring material along the south slope. Pond 6 Design Meeting on Tuesday, January 8th.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Juan Carrillo - Operator	Miguel Hernandez-Gonzalez – Field Tech
Lloyd Evans - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
N/A	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- A 4' thick concrete foundation was discovered underneath the fenced in area behind the Laboratory Building. The concrete foundation is in the area where the corner of Pond 6 was going to be cut to increase capacity. Additional equipment will be required to remove/break the concrete foundation in order to complete the excavation.

- JLD is filling Bin 11 with Category I material – this material will need to be placed in a repository.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2007 Remedial Repository Design, Ponds 5 & 6 — Week Ending

LOCATION: El Paso, Texas — **1/6/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	12/31/07	NO
Tuesday	1/1/08	NO
Wednesday	1/2/08	NO
Thursday	1/3/08	NO
Friday	1/4/08	NO
Saturday	1/5/08	NO
Sunday	1/6/08	NO
	TOTAL SCREENING DAYS JANUARY	**0**

Concrete Sizing - Pond 6

Day of Week	Date	Daily Task Performed YES/NO
Monday	12/31/07	NO
Tuesday	1/1/08	NO
Wednesday	1/2/08	NO
Thursday	1/3/08	YES
Friday	1/4/08	YES
Saturday	1/5/08	YES
Sunday	1/6/08	YES
	TOTAL CONCRETE SIZING DAYS JANUARY	**4**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE January 7, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	01-14-08
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 01/07/08 – 01/13/08
Weather:	Temp Average: 47 Rainfall Total for Week: Trace

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, January 7th, 2008
Began loading the Cat 1 material, which is stockpiled in the northeast corner of Pond 6, and transporting and placing the material in the Bins Building – Bins 2 & 4. The bins area approximately 160'L x 40'W x 20'H and will each hold approximately 4500CY. Continued cutting the southeast corner of Pond 6 and transferring material along the west slope. The sheeps-foot roller is being used to compact the subgrade and fill areas. Powdered bentonite was used in the northwest side of Pond 6 to plug the groundwater drainage area prior to fill placement. A total of 1000lbs of bentonite was mixed in-situ into the wet area to a depth of approximately 2'-4' with a final 200lbs of bentonite mixed in the last 1' to seal off and dry the area. The hydraulic hammer began the concrete demolition on the large foundations and footings discovered in the southeast corner of Pond 6. The concrete processor was used to process the concrete, and segregate the rebar from the concrete pieces. The water truck was used in the work areas and haul road for dust control.

Tuesday, January 8th –
Continued hauling the Cat 1 material stockpiled in the northeast corner of Pond 6 to the Bins Building – Bins 2 & 4. Continued cutting the southeast corner of Pond 6 and transferring material along the west slope. The sheeps-foot roller is being used to compact the subgrade and fill areas. The hydraulic hammer continued the concrete demolition on the large foundations and footings. The concrete processor was used to process the concrete, and segregate the rebar from the concrete pieces. The water truck was used in the work areas and haul road for dust control. Began hauling the processed concrete from Pond 6 to the existing stockpiles in Area 11.

Wednesday, January 9th -
Continued hauling the Cat 1 material stockpiled in the northeast corner of Pond 6 to the Bins Building – Bins 2 & 4. Continued cutting the southeast corner of Pond 6 and transferring material along the north slope. The sheeps-foot roller is being used to compact the subgrade and fill areas. The hydraulic hammer continued the concrete demolition on the large foundations and footings. The concrete processor was used to process the concrete, and segregate the rebar from the concrete pieces. The water truck was used in the work areas and haul road for dust control. Continued hauling the processed concrete from Pond 6 to the existing stockpiles in Area 11.

Thursday, January 10th -
Continued hauling the Cat 1 material stockpiled in the northeast corner of Pond 6 to the Bins Building – Bins 2 & 4. Continued cutting the southeast corner of Pond 6 and transferring material along the north slope. The sheeps-foot roller is being used to compact the subgrade and fill areas. The hydraulic hammer completed the concrete demolition on the large foundations and footings by the end of the shift. The concrete processor was used to process the concrete, and segregate the rebar from the concrete pieces. Continued hauling the processed concrete from Pond 6 to existing stockpiles in Area 11. Received approval from ASARCO to demolish the small metal building and small cinderblock building located behind the Laboratory Building. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 and from Pond 6 to the Bins Building.

Friday, January 11th –
Completed hauling the Cat 1 material stockpiled in the northeast corner of Pond 6 to the Bins Building – Bins 2 & 4. Bin 2 and 4 are both approximately ¾ full. Completed cutting the southeast corner of Pond 6. The sheeps-foot roller is being used to compact the subgrade and fill areas. The concrete processor was used to process the concrete, and segregate the rebar from the concrete pieces. Continued hauling the processed concrete from Pond 6 to existing stockpiles in Area 11. Began to excavate the clean clay material located in the northwest portion of Area 11 and hauled the clay material to Pond 6 to begin construction of the truck ramp leading into the Pond. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 and from Pond 6 to the Bins Building.

Saturday, January 12th -
Completed hauling the processed concrete from Pond 6 to existing stockpiles in Area 11. Segregated the construction debris and metal from the building demolition, and hauled the material to the storage yard located before the railroad bridge. Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of truck ramp leading into Pond. The sheeps-foot roller is being used to compact the ramp and fill areas. Completed construction of the ramp and began placing and compacting the clay material for the base of the Pond 6 slopes. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6.

Sunday, January 13th–
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Juan Carrillo - Operator	Miguel Hernandez-Gonzalez – Field Tech
Lloyd Evans - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat 1 Material from Pond 6 to Bins Building; Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- JLD has filled Bin 11 with Category I material – this material will need to be placed in the repository. The Bins will hold approximately 450oCY of material (160'L x 40'W x 20' H)
- Bin 2 is approximately ¾ Full – approximately 3,300CY; Bin 4 is approximately ¾ Full – approximately 3,300CY.
- Thursday, January 10th – Weekly Progress Meeting: ASARCO, CDM, Raba Kistner, JLD, ENTACT.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **1/13/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	1/7/08	N/A
Tuesday	1/8/08	N/A
Wednesday	1/9/08	N/A
Thursday	1/10/08	Area 11 to Pond 6; Pond 6 to the Bins Building.
Friday	1/11/08	Area 11 to Pond 6; Pond 6 to the Bins Building.
Saturday	1/12/08	Area 11 to Pond 6; Pond 6 to the Bins Building.
Sunday	1/13/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE January 14, 2008

ASARCO EL PASO
WEEKLY SCREENING &
CONCRETE SIZING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **1/13/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO
Monday	1/7/08	NO
Tuesday	1/8/08	NO
Wednesday	1/9/08	NO
Thursday	1/10/08	NO
Friday	1/11/08	NO
Saturday	1/12/08	NO
Sunday	1/13/08	NO
	TOTAL SCREENING DAYS JANUARY	**0**

Concrete Sizing / Foundation Demolition - Pond 6

Day of Week	Date	Daily Task Performed YES/NO
Monday	1/7/08	YES
Tuesday	1/8/08	YES
Wednesday	1/9/08	YES
Thursday	1/10/08	YES
Friday	1/11/08	YES
Saturday	1/12/08	NO
Sunday	1/13/08	NO
Lump Sump Pricing for Concrete Demolition Work Pond 6	**TOTAL CONCRETE SIZING/DEMO DAYS JANUARY**	**9**

The above tasks are charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE January 14, 2008

Asarco, El Paso Smelter

Daily Truck Count - Line Item D.1- Load/Transport Cat I Material from Pond 6 and Place in Bins Building

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.5CY/LD*	CUBIC YARDS TO DATE	Load/Transport/Place
1/7/08	68	68	714.0	714.0	Pond 6 to Bins Building Bins 2
1/7/08	81	149	850.5	1,564.5	Pond 6 to Bins Building Bins 4
1/8/08	64	213	672.0	2,236.5	Pond 6 to Bins Building Bins 2
1/8/08	65	278	682.5	2,919.0	Pond 6 to Bins Building Bins 4
1/9/08	80	358	840.0	3,759.0	Pond 6 to Bins Building Bins 2
1/9/08	72	430	756.0	4,515.0	Pond 6 to Bins Building Bins 4
1/10/08	36	466	378.0	4,893.0	Pond 6 to Bins Building Bins 2
1/10/08	85	551	892.5	5,785.5	Pond 6 to Bins Building Bins 4
1/11/08	2	553	21.0	5,806.5	Pond 6 to Bins Building Bins 2
1/11/08	20	573	210.0	6,016.5	Pond 6 to Bins Building Bins 4

* 3.5CY Bucket on Loader - 3 buckets per Truck Load = 10.5CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 6,016.5

Asarco, El Paso Smelter
Pond 6 - Demolition of Concrete Foundation and Footings

Lump Sum - Line Item A.2.1 - Concrete Demolition / Process Concrete / Segregate Rebar / Haul Concrete and Rebar to Stockpiles

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	PLACED IN DESIGNATED AREA
1/8/08	20	20	200	200	AREA 11
1/10/08	25	45	250	450	AREA 11
1/11/08	1	46	10	460	AREA 11
1/12/08	1	47	10	470	AREA 11

* Tandam Haul Trucks Safely Haul 23-25 Tons of Material - Concrete Weighs Approx. 4000LBS/CY - Figure Each Truck Transports 10CY of Concrete

TOTAL CUBIC YARDS **470**

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	828	828	NW AREA 11
1/12/08	87	156	1,044	1,872	NW AREA 11

* 3.0CY Bucket on Loader - 4 buckets per Truck Load = 12CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **1,872**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	01-21-08
Completed by:	Kirk Gates
cc:	Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 01/14/08 – 01/20/08
Weather:	Temp Average: 39 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, January 14th, 2008
Removed the remaining fencing and gates which were located on the southeast corner of Pond 6. Completed hauling pipe, metal and wood debris from Pond 6 to the storage area before the railroad bridge. Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6.

Tuesday, January 15th –
Began removing brush and trees along the north and east slopes of Pond 6 and hauled the material to wood debris pile in Area 11. Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6.

Wednesday, January 16th -
Completed removing the brush and trees along the north and east slopes of Pond 6 and hauled the material to wood debris pile in Area 11. Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6.

Thursday, January 17th -
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6.

Friday, January 18th –
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. Due to freezing temperatures, the water lines in the Plant were frozen and were unable to use the water truck. The haul trucks were shut off at 3:00pm due to dust issues and unable to add water to the clay material as it is being placed. The Elgin Sweeper was used to clean all plant roads. At approximately 3:30pm the water lines were fixed.

Saturday, January 19th -
No haul trucks were used today in order to moisture prep the fill material in Pond 6. The D6 dozer was used to rip open the surface of the slopes in Pond 6 and the water truck was used to add moisture to the material. The sheep's-foot roller was used to compact the fill areas. The water truck was also used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean all plant roads. Excavating and stockpiling clay material in Area 11 in preparation of hauling on Monday.

Sunday, January 20th–
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- JLD has filled Bin 11 with Category I material – this material will need to be placed in the repository. The Bins will hold approximately 450oCY of material (160'L x 40'W x 20' H)
- Bin 2 is approximately ¾ Full – approximately 3,300CY; Bin 4 is approximately ¾ Full – approximately 3,300CY.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **1/20/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	1/14/08	Area 11 to Pond 6
Tuesday	1/15/08	Area 11 to Pond 6
Wednesday	1/16/08	Area 11 to Pond 6
Thursday	1/17/08	Area 11 to Pond 6
Friday	1/18/08	Area 11 to Pond 6; Plant Roads
Saturday	1/19/08	Area 11 to Pond 6; Plant Roads
Sunday	1/20/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE January 21, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	828	828	NW AREA 11
1/12/08	87	156	1,044	1,872	NW AREA 11
1/14/08	122	278	1,464	3,336	NW AREA 11
1/15/08	131	409	1,572	4,908	NW AREA 11
1/16/08	136	545	1,632	6,540	NW AREA 11
1/17/08	133	678	1,596	8,136	NW AREA 11
1/18/08	109	787	1,308	9,444	NW AREA 11

* 3.0CY Bucket on Loader - 4 buckets per Truck Load = 12CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **9,444**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	01-28-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 01/21/08 – 01/27/08
Weather:	Temp Average: 45 Rainfall Total for Week: 0.05”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, January 21st, 2008
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. Two roll-off boxes were loaded with wood and construction debris that was staged in Area 11. Consolidating concrete demolition debris into one stockpile on the west side of Area 11. Began removing riprap from the western slopes of Area 11 and consolidating into a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Tuesday, January 22nd –
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. Raba-Kistner performed compaction density tests around the perimeter of the slopes (approximately 1 test every 100 linear feet) and collected soil samples for proctor analysis. Continued consolidating concrete demolition debris into one stockpile on the west side of Area 11. Continued removing riprap from the western slopes of Area 11 and consolidating into a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Wednesday, January 23rd -
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. SLI Engineering was on-site to begin construction staking of the slopes. The sheep’s-foot roller is being used to compact the fill areas. Continued consolidating concrete demolition debris into one stockpile on the west side of Area 11. Continued removing riprap from the western slopes of Area 11 and consolidating into a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Thursday, January 24th -
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. SLI Engineering was back on-site to continue construction staking of the slopes and cross-sectioned the cut area in the southeast corner. Continued removing riprap from the western slopes of Area 11 and consolidating into a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Friday, January 25th –
Slight delay Friday morning due to wet conditions from overnight showers and foggy conditions. Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. Continued removing riprap from the western slopes of Area 11 and consolidating into a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Saturday, January 26th -
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the base of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. Continued removing riprap from the western slopes of Area 11 and consolidating into a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Sunday, January 27th–
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- Thursday, January 24th, 9:00am Progress Meeting – ASARCO, CDM, Raba Kistner, JLD, and ENTACT

- On Thursday, it was discovered that the Raba Kistner Draft Pond 6 design data was based on 2005 survey information, which was prior to the sediment removal project in 2006. When ASARCO requested ENTACT complete the design to address drainage and construct ability issues, ENTACT had used the Raba Kistner electronic data to complete the design work. Since Raba Kistner had spent 6 months working on the design (April 2007 to September 2007) and SLI Engineering had been working on Pond 6 during this time, Entact did not question the accuracy of the data. SLI Engineering had performed survey work on Pond 6 in 2005 (pre-sediment removal), 2006 (post sediment removal), and again in 2007 to locate perimeter structures, slopes, and bottom. ENTACT contacted SLI Engineering and requested all the electronic survey data. ENTACT will evaluate the newer survey data to determine the change to the fill quantity required to construct the Pond 6 slopes.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **1/27/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	1/21/08	Area 11 to Pond 6; Plant Roads
Tuesday	1/22/08	Area 11 to Pond 6; Plant Roads
Wednesday	1/23/08	Area 11 to Pond 6; Plant Roads
Thursday	1/24/08	Area 11 to Pond 6; Plant Roads
Friday	1/25/08	Area 11 to Pond 6; Plant Roads
Saturday	1/26/08	Area 11 to Pond 6; Plant Roads
Sunday	1/27/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE January 28, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	828	828	NW AREA 11
1/12/08	87	156	1,044	1,872	NW AREA 11
1/14/08	122	278	1,464	3,336	NW AREA 11
1/15/08	131	409	1,572	4,908	NW AREA 11
1/16/08	136	545	1,632	6,540	NW AREA 11
1/17/08	133	678	1,596	8,136	NW AREA 11
1/18/08	109	787	1,308	9,444	NW AREA 11
1/21/08	137	924	1,644	11,088	NW AREA 11
1/22/08	136	1060	1,632	12,720	NW AREA 11
1/23/08	97	1157	1,164	13,884	NW AREA 11
1/24/08	111	1268	1,332	15,216	NW AREA 11
1/25/08	89	1357	1,068	16,284	NW AREA 11
1/26/08	69	1426	828	17,112	NW AREA 11

* 2.5CY Bucket on Loader - 5 buckets per Truck Load = 12CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **17,112**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	02-04-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 01/28/08 – 02/03/08
Weather:	Temp Average: 45 Rainfall Total for Week: 0.09”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, January 28th, 2008
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. At approximately 11:00, rain showers created slick conditions in Area 11 and Pond 6 for the haul trucks, therefore the trucks were shut down. Continued removing riprap from the western slopes of Area 11 and consolidating into a stockpile.

Tuesday, January 29th –
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Wednesday, January 30th -
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued removing riprap from the western slopes of Area 11 and consolidating into a stockpile.

Thursday, January 31st -
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Friday, February 1st –
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. Raba Kistner performed density tests on the floor of Pond 6 – all were greater than 90% of the maximum dry density. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Began removing sediment from the smaller retention pond and making improvements to stormwater controls in Area 11.

Saturday, February 2nd -
Continued to excavate the clean clay material located in the northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued making improvements to stormwater controls in Area 11.

Sunday, February 3rd –
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

SLI Engineering provided ENTACT with the correct survey data for the existing elevations in Pond 6 prior to the slope construction. ENTACT re-evaluated the amount of material to construct the slopes and provided the quantity information to ASARCO on Monday, January 28th.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager
214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **2/3/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	1/28/08	Area 11 to Pond 6; Plant Roads
Tuesday	1/29/08	Area 11 to Pond 6; Plant Roads
Wednesday	1/30/08	Area 11 to Pond 6; Plant Roads
Thursday	1/31/08	Area 11 to Pond 6; Plant Roads
Friday	2/1/08	Area 11 to Pond 6; Plant Roads
Saturday	2/2/08	Area 11 to Pond 6; Plant Roads
Sunday	2/3/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE February 4, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 12CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	828	828	NW AREA 11
1/12/08	87	156	1,044	1,872	NW AREA 11
1/14/08	122	278	1,464	3,336	NW AREA 11
1/15/08	131	409	1,572	4,908	NW AREA 11
1/16/08	136	545	1,632	6,540	NW AREA 11
1/17/08	133	678	1,596	8,136	NW AREA 11
1/18/08	109	787	1,308	9,444	NW AREA 11
1/21/08	137	924	1,644	11,088	NW AREA 11
1/22/08	136	1060	1,632	12,720	NW AREA 11
1/23/08	97	1157	1,164	13,884	NW AREA 11
1/24/08	111	1268	1,332	15,216	NW AREA 11
1/25/08	89	1357	1,068	16,284	NW AREA 11
1/26/08	69	1426	828	17,112	NW AREA 11
1/28/08	42	1468	504	17,616	NW AREA 11
1/29/08	116	1584	1,392	19,008	NW AREA 11
1/30/08	108	1692	1,296	20,304	NW AREA 11
1/31/08	121	1813	1,452	21,756	NW AREA 11
2/1/08	114	1927	1,368	23,124	NW AREA 11
2/2/08	81	2008	972	24,096	NW AREA 11

* 2.5CY Bucket on 330 Excavator - 5 buckets per Truck Load = 12CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **24,096**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	02-11-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 02/04/08 – 02/10/08
Weather:	Temp Average: 50 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, February 4th, 2008
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. Completed the second lift in the bottom of the cell. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Tuesday, February 5th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. Resumed removing riprap from the Area 11 investigation slope and placed the riprap in a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Wednesday, February 6th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. Raba-Kistner performed 4 compaction tests on the cell floor – all tests passed for density. The sheep’s-foot roller is being used to compact the fill areas. Continued removing riprap from the Area 11 investigation slope and placed the riprap in a stockpile. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. The lower bearings for the Elgin Sweeper conveyor broke. The Elgin Sweeper was cleaned in order for the mechanics to determine the parts that will need to be replaced.

Thursday, February 7th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. Continued removing riprap from the Area 11 investigation slope and placed the riprap in a stockpile. The water truck was used in the work areas and haul road for dust control. The

mechanics looked at the Elgin Sweeper and took inventory of the parts needing to be replaced and the parts were ordered.

Friday, February 8th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Saturday, February 9th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant.

Sunday, February 10th –
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **2/10/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	2/4/08	Area 11 to Pond 6; Plant Roads
Tuesday	2/5/08	Area 11 to Pond 6; Plant Roads
Wednesday	2/6/08	Area 11 to Pond 6; Plant Roads
Thursday	2/7/08	Sweeper down for repairs - needs to have conveyor bearings, belt, and pulleys replaced
Friday	2/8/08	Sweeper down for repairs - parts ordered
Saturday	2/9/08	Sweeper down for repairs - waiting on shipment of parts
Sunday	2/10/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE February 11, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	690	690	NW AREA 11
1/12/08	87	156	870	1,560	NW AREA 11
1/14/08	122	278	1,220	2,780	NW AREA 11
1/15/08	131	409	1,310	4,090	NW AREA 11
1/16/08	136	545	1,360	5,450	NW AREA 11
1/17/08	133	678	1,330	6,780	NW AREA 11
1/18/08	109	787	1,090	7,870	NW AREA 11
1/21/08	137	924	1,370	9,240	NW AREA 11
1/22/08	136	1060	1,360	10,600	NW AREA 11
1/23/08	97	1157	970	11,570	NW AREA 11
1/24/08	111	1268	1,110	12,680	NW AREA 11
1/25/08	89	1357	890	13,570	NW AREA 11
1/26/08	69	1426	690	14,260	NW AREA 11
1/28/08	42	1468	420	14,680	NW AREA 11
1/29/08	116	1584	1,160	15,840	NW AREA 11
1/30/08	108	1692	1,080	16,920	NW AREA 11
1/31/08	121	1813	1,210	18,130	NW AREA 11
2/1/08	114	1927	1,140	19,270	NW AREA 11
2/2/08	81	2008	810	20,080	NW AREA 11
2/4/08	110	2118	1,100	21,180	NW AREA 11
2/4/2008**	6	2124	48	21,228	NW AREA 11
2/5/08	96	2220	960	22,188	NW AREA 11
2/5/2008**	20	2240	160	22,348	NW AREA 11
2/6/08	107	2347	1,070	23,418	NW AREA 11
2/6/2008**	22	2369	176	23,594	NW AREA 11
2/7/08	114	2483	1,140	24,734	NW AREA 11
2/7/2008**	23	2506	184	24,918	NW AREA 11
2/8/08	138	2644	1,380	26,298	NW AREA 11
2/9/08	96	2740	960	27,258	NW AREA 11

*2.5CY Bucket on 330 Excavator - 4 buckets per Truck Load = 10CY per Truck

** 8CY Dump Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **27,258**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	02-18-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 02/11/08 – 02/17/08
Weather:	Temp Average: 52 Rainfall Total for Week: 0.15”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, February 11th, 2008
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. Raba-Kistner performed 11 compaction tests on the cell floor and slopes – all tests passed for density. The water truck was used in the work areas and haul road for dust control. Performing grading work in Area 11 to promote drainage away from excavation area and maintaining stormwater controls.

Tuesday, February 12th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. Continuing grading work in Area 11 to promote drainage away from excavation area and maintaining stormwater controls. On the north side of Pond 6 along the North Pump station service road – removed a section of the chain link fence and moved scrap metal and tires in order to remove lead and arsenic impacted soil along the edge of the service road. The impacted soils were transported to Area 11 (9 truck loads) and placed in a stockpile located in the impacted area.

Wednesday, February 13th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. Continuing grading work in Area 11 to promote drainage away from excavation area and maintaining stormwater controls. Completed removal of lead and arsenic impacted soil along the edge of the north Pond 6 Pump Station service road. The impacted soils were transported to Area 11 (28 truck loads) and placed in a stockpile located in the impacted area.

Thursday, February 14th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being

used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. Continuing grading work in Area 11 to promote drainage away from excavation area and maintaining stormwater controls. Used clean clay material to cap the area along the north Pond 6 Pump Station service road in the area where the impacted soils had been removed.

Friday, February 15th –
The haul trucks did not run today in order to perform maintenance and service to the trucks. The sheep's-foot roller is being used to compact the fill areas in Pond 6. The water truck was used to clean the back haul road. Continuing grading work in Area 11 to promote drainage away from excavation area and maintaining stormwater controls.

Saturday, February 16th -
No Work Activities

Sunday, February 17th –
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction. Hauled impacted soils from Pond 6 Pump Station service road to Area 11.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **2/17/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	2/11/08	Sweeper down for repairs - waiting on shipment of parts
Tuesday	2/12/08	Sweeper down for repairs - waiting on shipment of parts
Wednesday	2/13/08	Sweeper down for repairs - waiting on shipment of parts
Thursday	2/14/08	Sweeper down for repairs - waiting on shipment of parts
Friday	2/15/08	Sweeper down for repairs - waiting on shipment of parts
Saturday	2/16/08	Sweeper down for repairs - waiting on shipment of parts
Sunday	2/17/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE February 18, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	690	690	NW AREA 11
1/12/08	87	156	870	1,560	NW AREA 11
1/14/08	122	278	1,220	2,780	NW AREA 11
1/15/08	131	409	1,310	4,090	NW AREA 11
1/16/08	136	545	1,360	5,450	NW AREA 11
1/17/08	133	678	1,330	6,780	NW AREA 11
1/18/08	109	787	1,090	7,870	NW AREA 11
1/21/08	137	924	1,370	9,240	NW AREA 11
1/22/08	136	1060	1,360	10,600	NW AREA 11
1/23/08	97	1157	970	11,570	NW AREA 11
1/24/08	111	1268	1,110	12,680	NW AREA 11
1/25/08	89	1357	890	13,570	NW AREA 11
1/26/08	69	1426	690	14,260	NW AREA 11
1/28/08	42	1468	420	14,680	NW AREA 11
1/29/08	116	1584	1,160	15,840	NW AREA 11
1/30/08	108	1692	1,080	16,920	NW AREA 11
1/31/08	121	1813	1,210	18,130	NW AREA 11
2/1/08	114	1927	1,140	19,270	NW AREA 11
2/2/08	81	2008	810	20,080	NW AREA 11
2/4/08	110	2118	1,100	21,180	NW AREA 11
2/4/2008**	6	2124	48	21,228	NW AREA 11
2/5/08	96	2220	960	22,188	NW AREA 11
2/5/2008**	20	2240	160	22,348	NW AREA 11
2/6/08	107	2347	1,070	23,418	NW AREA 11
2/6/2008**	22	2369	176	23,594	NW AREA 11
2/7/08	114	2483	1,140	24,734	NW AREA 11
2/7/2008**	23	2506	184	24,918	NW AREA 11
2/8/08	138	2644	1,380	26,298	NW AREA 11
2/9/08	96	2740	960	27,258	NW AREA 11
2/11/08	129	2869	1,290	28,548	NW AREA 11
2/12/08	128	2997	1,280	29,828	NW AREA 11
2/13/08	117	3114	1,170	30,998	NW AREA 11
2/14/08	111	3225	1,110	32,108	NW AREA 11

*2.5CY Bucket on 330 Excavator - 4 buckets per Truck Load = 10CY per Truck

** 8CY Dump Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **32,108**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	02-25-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 02/18/08 – 02/24/08
Weather:	Temp Average: 55 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, February 18th, 2008
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. SLI Engineering was on-site to set intermediate slope stakes in Pond 6. The water truck was used in the work areas and haul road for dust control. Continued to sort and stockpile riprap material in Area 11.

Tuesday, February 19th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. Continued to sort and stockpile riprap material in Area 11.

Wednesday, February 20th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. Continued to sort and stockpile riprap material in Area 11. Began preparing laydown storage area for the Pond 6 Liner shipments on the east side of the Laboratory building.

Thursday, February 21st -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. The water truck was used in the work areas and haul road for dust control. Performing grading work in Area 11 in clean areas. Continued to sort and stockpile riprap material in Area 11. Completed the laydown storage area for the Pond 6 Liner shipments on the east side of the Laboratory building.

Friday, February 22nd –

Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. The water truck was used in the work areas and haul road for dust control. Performing grading work in Area 11 in clean areas. Continued to sort and stockpile riprap material in Area 11.

Saturday, February 23rd -
Installed 10mil PVC pipe wrap on all pipe supports around Pond 6, and placed asphalt cement on metal bases of the pipe supports. Continuing grading work and haul road improvements in Area 11. Continued to sort and stockpile riprap material in Area 11. Ripped open the top slopes of Pond 6 and watered the area, then compacted the top and slopes.

Sunday, February 24th –
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Progress Meeting with Asarco, CDM, JLD, Raba Kistner, and Entact. Three RFI's regarding the liner specifications were given to Raba Kistner to review and comment.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **2/24/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	2/18/08	Sweeper down for repairs - waiting on shipment of parts
Tuesday	2/19/08	Sweeper down for repairs - waiting on shipment of parts
Wednesday	2/20/08	Sweeper down for repairs - waiting on shipment of parts
Thursday	2/21/08	Area 11 to Pond 6; Plant Roads
Friday	2/22/08	Area 11 to Pond 6; Plant Roads
Saturday	2/23/08	Area 11 to Pond 6; Plant Roads
Sunday	2/24/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE February 25, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	690	690	NW AREA 11
1/12/08	87	156	870	1,560	NW AREA 11
1/14/08	122	278	1,220	2,780	NW AREA 11
1/15/08	131	409	1,310	4,090	NW AREA 11
1/16/08	136	545	1,360	5,450	NW AREA 11
1/17/08	133	678	1,330	6,780	NW AREA 11
1/18/08	109	787	1,090	7,870	NW AREA 11
1/21/08	137	924	1,370	9,240	NW AREA 11
1/22/08	136	1060	1,360	10,600	NW AREA 11
1/23/08	97	1157	970	11,570	NW AREA 11
1/24/08	111	1268	1,110	12,680	NW AREA 11
1/25/08	89	1357	890	13,570	NW AREA 11
1/26/08	69	1426	690	14,260	NW AREA 11
1/28/08	42	1468	420	14,680	NW AREA 11
1/29/08	116	1584	1,160	15,840	NW AREA 11
1/30/08	108	1692	1,080	16,920	NW AREA 11
1/31/08	121	1813	1,210	18,130	NW AREA 11
2/1/08	114	1927	1,140	19,270	NW AREA 11
2/2/08	81	2008	810	20,080	NW AREA 11
2/4/08	110	2118	1,100	21,180	NW AREA 11
2/4/2008**	6	2124	48	21,228	NW AREA 11
2/5/08	96	2220	960	22,188	NW AREA 11
2/5/2008**	20	2240	160	22,348	NW AREA 11
2/6/08	107	2347	1,070	23,418	NW AREA 11
2/6/2008**	22	2369	176	23,594	NW AREA 11
2/7/08	114	2483	1,140	24,734	NW AREA 11
2/7/2008**	23	2506	184	24,918	NW AREA 11
2/8/08	138	2644	1,380	26,298	NW AREA 11
2/9/08	96	2740	960	27,258	NW AREA 11
2/11/08	129	2869	1,290	28,548	NW AREA 11
2/12/08	128	2997	1,280	29,828	NW AREA 11
2/13/08	117	3114	1,170	30,998	NW AREA 11
2/14/08	111	3225	1,110	32,108	NW AREA 11
2/18/08	133	3358	1,330	33,438	NW AREA 11
2/19/08	134	3492	1,340	34,778	NW AREA 11
2/20/08	130	3622	1,300	36,078	NW AREA 11
2/21/08	137	3759	1,370	37,448	NW AREA 11
2/22/08	134	3893	1,340	38,788	NW AREA 11

*2.5CY Bucket on 330 Excavator - 4 buckets per Truck Load = 10CY per Truck

** 8CY Dump Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **38,788**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	03-03-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 02/25/08 – 03/02/08
Weather:	Temp Average: 57 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, February 25th, 2008
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. Raba Kistner performed 4 compaction tests along the top of the Pond 6 slope – all passed for density. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating clean riprap from the Area 11 investigation slope and stockpiling the clean riprap in the staging area. Unloaded 21 rolls of geocomposite drainage net material and placed in liner staging area on the east side of the Laboratory building.

Tuesday, February 26th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating clean riprap from the Area 11 investigation slope and stockpiling the clean riprap in the staging area. Loaded a roll-off box for Asarco in Area 11 with wood debris, tires, and other debris. Asarco removed two overhead power lines on the northeast side of Pond 6 to eliminate the overhead hazard.

Wednesday, February 27th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. The grizzly was moved over to the south side of Area 11, near the base of the new investigation area slope, and was used to begin segregating large rock from the impacted material.

Thursday, February 28th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope.

Friday, February 29th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope.

Saturday, March 1st -
Reviewed Job Safety Analysis Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope.

Sunday, March 2nd –
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue excavating clean clay from Area 11 and hauling to Pond 6 for the construction of the repository slopes.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- On Tuesday, February 26th, ENTACT requested clarification from Raba Kistner regarding their response to RFI 1, 2, and 3. Raba Kistner (Berna Olague) stated that they would respond by Thursday, February 28th. As of Saturday, March 1st, no response has been given.
- On Tuesday, February 26th, ENTACT delivered to Raba Kistner, Asarco, and CDM the liner submittal packages. Raba Kistner (Berna Olague) stated that they would respond to the submittals by Thursday, February 28th. As of Saturday, March 1st, no response has been given.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **3/2/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	2/25/08	Area 11 to Pond 6; Plant Roads
Tuesday	2/26/08	Area 11 to Pond 6; Plant Roads
Wednesday	2/27/08	Area 11 to Pond 6; Plant Roads
Thursday	2/28/08	Area 11 to Pond 6; Plant Roads
Friday	2/29/08	Area 11 to Pond 6; Plant Roads
Saturday	3/1/08	Area 11 to Pond 6; Plant Roads
Sunday	3/2/08	N/A

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE March 3, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	690	690	NW AREA 11
1/12/08	87	156	870	1,560	NW AREA 11
1/14/08	122	278	1,220	2,780	NW AREA 11
1/15/08	131	409	1,310	4,090	NW AREA 11
1/16/08	136	545	1,360	5,450	NW AREA 11
1/17/08	133	678	1,330	6,780	NW AREA 11
1/18/08	109	787	1,090	7,870	NW AREA 11
1/21/08	137	924	1,370	9,240	NW AREA 11
1/22/08	136	1060	1,360	10,600	NW AREA 11
1/23/08	97	1157	970	11,570	NW AREA 11
1/24/08	111	1268	1,110	12,680	NW AREA 11
1/25/08	89	1357	890	13,570	NW AREA 11
1/26/08	69	1426	690	14,260	NW AREA 11
1/28/08	42	1468	420	14,680	NW AREA 11
1/29/08	116	1584	1,160	15,840	NW AREA 11
1/30/08	108	1692	1,080	16,920	NW AREA 11
1/31/08	121	1813	1,210	18,130	NW AREA 11
2/1/08	114	1927	1,140	19,270	NW AREA 11
2/2/08	81	2008	810	20,080	NW AREA 11
2/4/08	110	2118	1,100	21,180	NW AREA 11
2/4/2008**	6	2124	48	21,228	NW AREA 11
2/5/08	96	2220	960	22,188	NW AREA 11
2/5/2008**	20	2240	160	22,348	NW AREA 11
2/6/08	107	2347	1,070	23,418	NW AREA 11
2/6/2008**	22	2369	176	23,594	NW AREA 11
2/7/08	114	2483	1,140	24,734	NW AREA 11
2/7/2008**	23	2506	184	24,918	NW AREA 11
2/8/08	138	2644	1,380	26,298	NW AREA 11
2/9/08	96	2740	960	27,258	NW AREA 11
2/11/08	129	2869	1,290	28,548	NW AREA 11
2/12/08	128	2997	1,280	29,828	NW AREA 11
2/13/08	117	3114	1,170	30,998	NW AREA 11
2/14/08	111	3225	1,110	32,108	NW AREA 11
2/18/08	133	3358	1,330	33,438	NW AREA 11
2/19/08	134	3492	1,340	34,778	NW AREA 11
2/20/08	130	3622	1,300	36,078	NW AREA 11
2/21/08	137	3759	1,370	37,448	NW AREA 11
2/22/08	134	3893	1,340	38,788	NW AREA 11
2/25/08	138	4031	1,380	40,168	NW AREA 11
2/26/08	124	4155	1,240	41,408	NW AREA 11
2/27/08	126	4281	1,260	42,668	NW AREA 11
2/28/08	138	4419	1,380	44,048	NW AREA 11
2/29/08	136	4555	1,360	45,408	NW AREA 11
3/1/08	77	4632	770	46,178	NW AREA 11

*2.5CY Bucket on 330 Excavator - 4 buckets per Truck Load = 10CY per Truck

** 8CY Dump Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **46,178**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	03-10-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 03/03/08 – 03/09/08
Weather:	Temp Average: 47 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, March 3rd, 2008
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope.

Tuesday, March 4th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope. Raba Kistner performed 5 compaction tests along the top of the Pond 6 slope – all tests passed for density.

Wednesday, March 5th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope. Raba Kistner was on-site to collect site specific soil samples (slope fill material and impacted cover soil/intermediate layer material) for the liner Friction Angle Testing.

Thursday, March 6th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control.

The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope.

Friday, March 7th –
No site activities due to weekend leave for work crew.

Saturday, March 8th -
No Work Activities

Sunday, March 9th –
No Work Activities

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Begin final grading of Pond 6 slopes and begin screening Category I material stored in the Bins Building.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- Tuesday, March 4th – Meeting with Raba Kistner, Asarco, and Entact to discuss the coordination of liner testing and conformance testing. Raba Kistner will collect site specific soil samples for the Friction Angle Testing, and contact the liner installer to get contact information for the liner manufacturers.
- Thursday, March 6th Weekly Progress Meeting – Asarco, CDM, Entact, JLD, Raba Kistner.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **3/9/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	3/3/08	Area 11 to Pond 6; Plant Roads
Tuesday	3/4/08	Area 11 to Pond 6; Plant Roads
Wednesday	3/5/08	Area 11 to Pond 6; Plant Roads
Thursday	3/6/08	Area 11 to Pond 6; Plant Roads
Friday	3/7/08	No Site Activities
Saturday	3/8/08	No Site Activities
Sunday	3/9/08	No Site Activities

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE March 10, 2008

Asarco, El Paso Smelter
Pond 6 Slope Construction w/ Clean Clay from Area 11
Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	690	690	NW AREA 11
1/12/08	87	156	870	1,560	NW AREA 11
1/14/08	122	278	1,220	2,780	NW AREA 11
1/15/08	131	409	1,310	4,090	NW AREA 11
1/16/08	136	545	1,360	5,450	NW AREA 11
1/17/08	133	678	1,330	6,780	NW AREA 11
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1/25/08	89	1357	890	13,570	NW AREA 11
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1/28/08	42	1468	420	14,680	NW AREA 11
1/29/08	116	1584	1,160	15,840	NW AREA 11
1/30/08	108	1692	1,080	16,920	NW AREA 11
1/31/08	121	1813	1,210	18,130	NW AREA 11
2/1/08	114	1927	1,140	19,270	NW AREA 11
2/2/08	81	2008	810	20,080	NW AREA 11
2/4/08	110	2118	1,100	21,180	NW AREA 11
2/4/2008**	6	2124	48	21,228	NW AREA 11
2/5/08	96	2220	960	22,188	NW AREA 11
2/5/2008**	20	2240	160	22,348	NW AREA 11
2/6/08	107	2347	1,070	23,418	NW AREA 11
2/6/2008**	22	2369	176	23,594	NW AREA 11
2/7/08	114	2483	1,140	24,734	NW AREA 11
2/7/2008**	23	2506	184	24,918	NW AREA 11
2/8/08	138	2644	1,380	26,298	NW AREA 11
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2/12/08	128	2997	1,280	29,828	NW AREA 11
2/13/08	117	3114	1,170	30,998	NW AREA 11
2/14/08	111	3225	1,110	32,108	NW AREA 11
2/18/08	133	3358	1,330	33,438	NW AREA 11
2/19/08	134	3492	1,340	34,778	NW AREA 11
2/20/08	130	3622	1,300	36,078	NW AREA 11
2/21/08	137	3759	1,370	37,448	NW AREA 11
2/22/08	134	3893	1,340	38,788	NW AREA 11
2/25/08	138	4031	1,380	40,168	NW AREA 11
2/26/08	124	4155	1,240	41,408	NW AREA 11
2/27/08	126	4281	1,260	42,668	NW AREA 11
2/28/08	138	4419	1,380	44,048	NW AREA 11
2/29/08	136	4555	1,360	45,408	NW AREA 11
3/1/08	77	4632	770	46,178	NW AREA 11
3/3/08	122	4754	1,220	47,398	NW AREA 11
3/4/08	127	4881	1,270	48,668	NW AREA 11
3/5/08	92	4973	920	49,588	NW AREA 11
3/6/08	87	5060	870	50,458	NW AREA 11

*2.5CY Bucket on 330 Excavator - 4 buckets per Truck Load = 10CY per Truck
** 8CY Dump Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **50,458**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	03-17-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 03/10/08 – 03/16/08
Weather:	Temp Average: 58 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, March 10th, 2008
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. SLI Engineering was on-site to reset slope grade stakes. Installed PVC pipe wrap around the pipe located in the northwest corner of Pond 6. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope.

Tuesday, March 11th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. SLI Engineering was on-site to reset slope grade stakes. Installed PVC pipe wrap around the pipe supports located in the northwest corner of Pond 6. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued segregating large rock from the impacted material at the base of the Area 11 investigation slope.

Wednesday, March 12th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep’s-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Began hauling the Cat I material staged in the Bins Building to the screener and began screening for Protective Layer material. A total of 41 loads of Cat I material was hauled from Bin 2 to the screener and 21 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. A total of 2 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9.

Thursday, March 13th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued hauling the Cat I material staged in the Bins Building to the screener and began screening for Protective Layer material. A total of 30 loads of Cat I material was hauled from Bin 2 to the screener and 34 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. A total of 16 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9.

Friday, March 14th –
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued hauling the Cat I material staged in the Bins Building to the screener and began screening for Protective Layer material. A total of 33 loads of Cat I material was hauled from Bin 2 to the screener and 23 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. A total of 8 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9.

Saturday, March 15th -
Continued to excavate the clean clay material located in the north-northwest portion of Area 11 and hauled the material to Pond 6 for the construction of the Pond 6 slopes. The sheep's-foot roller is being used to compact the fill areas. The water truck was used in the work areas and haul road for dust control. The Elgin Sweeper was used to clean the haul road from Area 11 to Pond 6 in addition to other paved surfaces inside the Plant. Continued hauling the Cat I material staged in the Bins Building to the screener and began screening for Protective Layer material. A total of 38 loads of Cat I material was hauled from Bin 2 to the screener and 8 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8.

Sunday, March 16th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Begin final grading of Pond 6 slopes and begin screening Category I material stored in the Bins Building.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	Ubaldo Zubia - Operator

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay from Area 11 to Pond 6 for ramp and slope construction. Hauled Cat I Material from Bins Building to Screener & Hauled Screened Cat I material back to Bins Building

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- Tuesday, March 11th – Meeting with Raba Kistner, Asarco, and Entact regarding Raba Kistner's recommendation of using double sided geocomposite liner on the top cap instead of the single sided gecomposite that is written in the specifications. Due to the fluctuation in liner pricing from week to week and month to month, the gecomposite had already been ordered and delivered to the site in order to lock in the pricing. Raba Kistner will complete their recommendations and write a specification for the double sided geocomposite and supply the information to Asarco. Entact will check with liner installer and determine the possibility of sending the 21 rolls of single sided back to the manufacturer and the costs involved.
- As of Friday, March 14th – ENTACT has not received any information from Raba Kistner regarding the liner conformance testing, friction angle testing, approval of liner submittals, or detailed specifications for double sided geocomposite.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **3/16/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	3/10/08	Area 11 to Pond 6; Plant Roads
Tuesday	3/11/08	Area 11 to Pond 6; Plant Roads
Wednesday	3/12/08	Area 11 to Pond 6; Plant Roads
Thursday	3/13/08	Area 11 to Pond 6; Plant Roads
Friday	3/14/08	Area 11 to Pond 6; Plant Roads
Saturday	3/15/08	Did not use
Sunday	3/16/08	No Site Activities

The above task is charged at a monthly unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE March 17, 2008

Asarco, El Paso Smelter

Pond 6 Slope Construction w/ Clean Clay from Area 11

Daily Truck Count - Line Item B.3.1 - Excavate Clean Clay from Area 11, Transport to Pond 6, Place and Compact for Slope Construction

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
1/11/08	69	69	690	690	NW AREA 11
1/12/08	87	156	870	1,560	NW AREA 11
1/14/08	122	278	1,220	2,780	NW AREA 11
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1/22/08	136	1060	1,360	10,600	NW AREA 11
1/23/08	97	1157	970	11,570	NW AREA 11
1/24/08	111	1268	1,110	12,680	NW AREA 11
1/25/08	89	1357	890	13,570	NW AREA 11
1/26/08	69	1426	690	14,260	NW AREA 11
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1/31/08	121	1813	1,210	18,130	NW AREA 11
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2/6/2008**	22	2369	176	23,594	NW AREA 11
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2/11/08	129	2869	1,290	28,548	NW AREA 11
2/12/08	128	2997	1,280	29,828	NW AREA 11
2/13/08	117	3114	1,170	30,998	NW AREA 11
2/14/08	111	3225	1,110	32,108	NW AREA 11
2/18/08	133	3358	1,330	33,438	NW AREA 11
2/19/08	134	3492	1,340	34,778	NW AREA 11
2/20/08	130	3622	1,300	36,078	NW AREA 11
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2/25/08	138	4031	1,380	40,168	NW AREA 11
2/26/08	124	4155	1,240	41,408	NW AREA 11
2/27/08	126	4281	1,260	42,668	NW AREA 11
2/28/08	138	4419	1,380	44,048	NW AREA 11
2/29/08	136	4555	1,360	45,408	NW AREA 11
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3/3/08	122	4754	1,220	47,398	NW AREA 11
3/4/08	127	4881	1,270	48,668	NW AREA 11
3/5/08	92	4973	920	49,588	NW AREA 11
3/6/08	87	5060	870	50,458	NW AREA 11
3/10/08	82	5142	820	51,278	NW AREA 11
3/11/08	131	5273	1,310	52,588	NW AREA 11
3/12/08	62	5335	620	53,208	NW AREA 11
3/13/08	64	5399	640	53,848	NW AREA 11
3/14/08	56	5455	560	54,408	NW AREA 11
3/15/08	36	5491	360	54,768	NW AREA 11

*2.5CY Bucket on 330 Excavator - 4 buckets per Truck Load = 10CY per Truck

** 8CY Dump Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **54,768**

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **3/16/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	3/10/08	NO	
Tuesday	3/11/08	NO	
Wednesday	3/12/08	YES	Cat I - From Bins Building
Thursday	3/13/08	YES	Cat I - From Bins Building
Friday	3/14/08	YES	Cat I - From Bins Building
Saturday	3/15/08	YES	Cat I - From Bins Building
Sunday	3/16/08	NO	
	TOTAL SCREENING DAYS MARCH	**4**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Keith Gates

DATE March 17, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 1,420.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 860.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 260.0

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	03-24-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 03/17/08 – 03/23/08
Weather:	Temp Average: 57 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, March 17th, 2008
Continuing compaction of the Pond 6 slopes. Began final grading of the Pond 6 slopes. The water truck was used in the work areas and haul road for dust control. Continued hauling the Cat I material staged in the Bins Building to the screener and screening for Protective Cover material. A total of 49 loads of Cat I material was hauled from Bin 2 to the screener and 46 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. A total of 18 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. Began hauling Cat I Material staged in Area 11 to the screening unit and began screening for the Protective Cover material. A total of 32 loads of Cat I material were hauled from Area 11 to the screener.

Tuesday, March 18th –
Continuing compaction of the Pond 6 slopes. Continuing final grading of the Pond 6 slopes. The water truck was used in the work areas and haul road for dust control. Continued hauling the Cat I material staged in the Bins Building to the screener and screening for Protective Cover material. A total of 22 loads of Cat I material was hauled from Bin 2 to the screener and 52 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. A total of 16 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. The Cat I material in the back of Bin 2 is wet, therefore the trucks began hauling Cat I material stockpiled in Bin 4 to the screener – a total of 2 loads were hauled. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 55 loads of Cat I material were hauled from Area 11 to the screener.

Wednesday, March 19th -
Continuing compaction of the Pond 6 slopes. Continuing final grading of the Pond 6 slopes. The water truck was used in the work areas and haul road for dust control. Continued hauling the Cat I material staged in the Bins Building to the screener and screening for Protective Cover material. A total of 18 loads of Cat I material was hauled from Bin 4 to the screener and 48 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. A total of 16 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9.

Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 39 loads of Cat I material were hauled from Area 11 to the screener.

Thursday, March 20th –
Continuing compaction of the Pond 6 slopes. Continuing final grading of the Pond 6 slopes. The water truck was used in the work areas and haul road for dust control. Continued hauling the Cat I material staged in the Bins Building to the screener and screening for Protective Cover material. A total of 44 loads of Cat I material was hauled from Bin 4 to the screener and 61 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. A total of 10 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 39 loads of Cat I material were hauled from Area 11 to the screener.

Friday, March 21st –
The water truck was used in the work areas and haul road for dust control. Continued hauling the Cat I material staged in the Bins Building to the screener and screening for Protective Cover material. A total of 50 loads of Cat I material was hauled from Bin 4 to the screener and 33 loads of screened material was loaded and transported from the screen back to the Bins building and is being stockpiled in Bin 8. Bin 8 is now full, therefore the screened Cat I material is being stockpiled in Bin 7 – at total of 31 loads of screened material was transported and placed in Bin 7. A total of 14 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 39 loads of Cat I material were hauled from Area 11 to the screener.

Saturday, March 22nd -
Did not haul material today in order to complete other work for Asarco. Built slopes on the northwest side of the plant in order for Asarco to run water hoses down the slope. Performed excavation and sloping for Asarco at the sewer line near the drainage channel west of the Union Pacific Railroad tracks. Screened remaining Cat I material stockpiled in screening building. Performed maintenance and adjustments to screening unit.

Sunday, March 23rd –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete final grading of Pond 6 slopes and continue screening Category I material stored in the Bins Building and in Area 11.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	Ubaldo Zubia - Operator

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I Material from Bins Building & Area 11 to Screener & Hauled Screened Cat I material back to Bins Building

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

- As of Friday, March 21st – ENTACT has not received the signed approved 60mil Liner and 40mil liner submittals from Raba Kistner or detailed specifications for double sided geocomposite.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **3/23/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	3/17/08	YES	Cat I - From Bins Building & Area 11
Tuesday	3/18/08	YES	Cat I - From Bins Building & Area 11
Wednesday	3/19/08	YES	Cat I - From Bins Building & Area 11
Thursday	3/20/08	YES	Cat I - From Bins Building & Area 11
Friday	3/21/08	YES	Cat I - From Bins Building & Area 11
Saturday	3/22/08	YES	Screened Stockpiled Cat I Material & Maintenance
Sunday	3/23/08	NO	
	TOTAL SCREENING DAYS MARCH	**10**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Keith Gates

DATE March 24, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN
3/17/08	49	191	490	1,910.0	BIN 2 TO SCREEN
3/17/08	32	223	320	2,230.0	AREA 11 TO SCREEN
3/18/08	22	245	220	2,450.0	BIN 2 TO SCREEN
3/18/08	55	300	550	3,000.0	AREA 11 TO SCREEN
3/18/08	2	302	20	3,020.0	BIN 4 TO SCREEN
3/19/08	18	320	180	3,200.0	BIN 4 TO SCREEN
3/19/08	61	381	610	3,810.0	AREA 11 TO SCREEN
3/20/08	44	425	440	4,250.0	BIN 4 TO SCREEN
3/20/08	39	464	390	4,640.0	AREA 11 TO SCREEN
3/21/08	50	514	500	5,140.0	BIN 4 TO SCREEN
3/21/08	39	553	390	5,530.0	AREA 11 TO SCREEN

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 5,530.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8
3/17/08	46	132	460	1,320.0	BIN 8
3/18/08	52	184	520	1,840.0	BIN 8
3/19/08	48	232	480	2,320.0	BIN 8
3/20/08	61	293	610	2,930.0	BIN 8
3/21/08	33	326	330	3,260.0	BIN 8
3/21/08	31	357	310	3,570.0	BIN 7

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 3,570.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN 9
3/17/08	18	44	180	440.0	BIN 9
3/18/08	16	60	160	600.0	BIN 9
3/19/08	16	76	160	760.0	BIN 9
3/20/08	10	86	100	860.0	BIN 9
3/21/08	14	100	140	1,000.0	BIN 9

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 1,000.0

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	03-31-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 03/24/08 – 03/30/08
Weather:	Temp Average: 63 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, March 24th, 2008
The water truck was used in the work areas and haul road for dust control. The loader was used to push the screened Cat I material up in Bin 8 to create more room to dump more loads. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 69 loads of Cat I material were hauled from Area 11 to the screener. A total of 24 loads of screened Cat I material was hauled from the screener to Bin8 and a total of 26 loads of screened Cat I material was hauled from the screener to Bin 7. A total of 25 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. SLI Engineering was on-site to begin final grade staking of Pond 6.

Tuesday, March 25th –
The water truck was used in the work areas and haul road for dust control. The loader was used to push the screened Cat I material up in Bin 8 to create more room to dump more loads. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 54 loads of Cat I material were hauled from Area 11 to the screener. A total of 14 loads of screened Cat I material was hauled from the screener to Bin8 and a total of 25 loads of screened Cat I material was hauled from the screener to Bin 7. A total of 21 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. SLI Engineering completed final grade staking of Pond 6. Continued final grading of Pond 6 slopes. Raba Kistner was on-site to perform compaction tests on the top of the Pond 6 slopes – all test passed for density.

Wednesday, March 26th -
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 58 loads of Cat I material were hauled from Area 11 to the screener. A total of 35 loads of screened Cat I material was hauled from the screener to Bin 7 and a total of 7 loads of screened Cat I material was hauled from the screener to Bin 8. A total of 17 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. Continued final grading of Pond 6 slopes.

Thursday, March 27th –
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 40 loads of Cat I material were hauled from Area 11 to the screener. Began hauling Cat I material stockpiled in Bin 4 to the screener – at total of 40 loads were hauled to the screener. A total of 25 loads of screened Cat I material was hauled from the screener to Bin 7 and a total of 14 loads of screened Cat I material was hauled from the screener to Bin 8. A total of 21 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. Continued final grading of Pond 6 slopes.

Friday, March 28th –
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 39 loads of Cat I material were hauled from Area 11 to the screener. Continued hauling Cat I material stockpiled in Bin 4 to the screener – at total of 55 loads were hauled to the screener. A total of 58 loads of screened Cat I material was hauled from the screener to Bin 7. A total of 16 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. Continued final grading of Pond 6 slopes. The Elgin Sweeper was used to clean the haul roads from Area 11 to the Bins Building and around the screening building.

Saturday, March 29th -
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 30 loads of Cat I material were hauled from Area 11 to the screener. Continued hauling Cat I material stockpiled in Bin 4 to the screener – at total of 12 loads were hauled to the screener. A total of 35 loads of screened Cat I material was hauled from the screener to Bin 7. A total of 11 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. Continued final grading of Pond 6 slopes.

Sunday, March 30th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Perform as-built survey of Pond 6 and perform surface preparation on slopes. Continue screening Category I material stored in the Bins Building and in Area 11.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I Material from Bins Building & Area 11 to Screener & Hauled Screened Cat I material back to Bins Building

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Friday, March 28th at 5:28pm, received email from Raba Kistner regarding the results of the GCL testing. Raba Kistner interpreted the results to be "lower than expected". The GCL manufacturer will contact Raba Kistner on Monday to go over the testing and the interpretation of the results.

7.0 RESOLUTION OF ISSUES OR CONCERNS

Received signed approval from Raba Kistner for the 60mil Textured HDPE liner and 40mil Textured LLDPE liner.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **3/30/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	3/24/08	YES	Cat I - From Bins Building & Area 11
Tuesday	3/25/08	YES	Cat I - From Bins Building & Area 11
Wednesday	3/26/08	YES	Cat I - From Bins Building & Area 11
Thursday	3/27/08	YES	Cat I - From Bins Building & Area 11
Friday	3/28/08	YES	Cat I - From Bins Building & Area 11
Saturday	3/29/08	YES	Cat I - From Bins Building & Area 11
Sunday	3/30/08	NO	
	TOTAL SCREENING DAYS MARCH	**16**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Keith Gates

DATE March 31, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN
3/17/08	49	191	490	1,910.0	BIN 2 TO SCREEN
3/17/08	32	223	320	2,230.0	AREA 11 TO SCREEN
3/18/08	22	245	220	2,450.0	BIN 2 TO SCREEN
3/18/08	55	300	550	3,000.0	AREA 11 TO SCREEN
3/18/08	2	302	20	3,020.0	BIN 4 TO SCREEN
3/19/08	18	320	180	3,200.0	BIN 4 TO SCREEN
3/19/08	61	381	610	3,810.0	AREA 11 TO SCREEN
3/20/08	44	425	440	4,250.0	BIN 4 TO SCREEN
3/20/08	39	464	390	4,640.0	AREA 11 TO SCREEN
3/21/08	50	514	500	5,140.0	BIN 4 TO SCREEN
3/21/08	39	553	390	5,530.0	AREA 11 TO SCREEN
3/24/08	69	622	690	6,220.0	AREA 11 TO SCREEN
3/25/08	54	676	540	6,760.0	AREA 11 TO SCREEN
3/26/08	58	734	580	7,340.0	AREA 11 TO SCREEN
3/27/08	40	774	400	7,740.0	AREA 11 TO SCREEN
3/27/08	40	814	400	8,140.0	BIN 4 TO SCREEN
3/28/08	39	853	390	8,530.0	AREA 11 TO SCREEN
3/28/08	55	908	550	9,080.0	BIN 4 TO SCREEN
3/29/08	30	938	300	9,380.0	AREA 11 TO SCREEN
3/29/08	12	950	120	9,500.0	BIN 4 TO SCREEN

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 9,500.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8
3/17/08	46	132	460	1,320.0	BIN 8
3/18/08	52	184	520	1,840.0	BIN 8
3/19/08	48	232	480	2,320.0	BIN 8
3/20/08	61	293	610	2,930.0	BIN 8
3/21/08	33	326	330	3,260.0	BIN 8
3/21/08	31	357	310	3,570.0	BIN 7
3/24/08	26	383	260	3,830.0	BIN 7
3/24/08	24	407	240	4,070.0	BIN 8
3/25/08	25	432	250	4,320.0	BIN 7
3/25/08	14	446	140	4,460.0	BIN 8
3/26/08	35	481	350	4,810.0	BIN 7
3/26/08	7	488	70	4,880.0	BIN 8
3/27/08	49	537	490	5,370.0	BIN 7
3/27/08	8	545	80	5,450.0	BIN 8
3/28/08	58	603	580	6,030.0	BIN 7
3/29/08	35	638	350	6,380.0	BIN 7

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 6,380.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN 9
3/17/08	18	44	180	440.0	BIN 9
3/18/08	16	60	160	600.0	BIN 9
3/19/08	16	76	160	760.0	BIN 9
3/20/08	10	86	100	860.0	BIN 9
3/21/08	14	100	140	1,000.0	BIN 9
3/24/08	25	125	250	1,250.0	BIN 9
3/25/08	21	146	210	1,460.0	BIN 9
3/26/08	17	163	170	1,630.0	BIN 9
3/27/08	20	183	200	1,830.0	BIN 9
3/28/08	16	199	160	1,990.0	BIN 9
3/29/08	11	210	110	2,100.0	BIN 9

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 2,100.0

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	04-7-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 03/31/08 – 04/06/08
Weather:	Temp Average: 65 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, March 31st, 2008
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 38 loads of Cat I material were hauled from Area 11 to the screener. Continued hauling Cat I material stockpiled in Bin 4 to the screener – a total of 46 loads were hauled to the screener. A total of 50 loads of screened Cat I material was hauled from the screener to Bin 7 and 1 load of screened Cat I material was placed in Bin 5. A total of 28 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. SLI Engingeering was on-site to begin the final as-built topographic survey of Pond 6. Began the surface preparation of the Pond 6 slopes for the eventual installation of the liner. The Elgin Sweeper was used to clean the haul roads from Area 11 to the Bins Building and around the screening building. PolyFlex delivered 7 rolls of 60Mil Textured HDPE liner and 4 rolls of 40Mil Textured LLDPE liner. The liner was unloaded and stored on the east side of the Laboratory Building at Pond 6.

Tuesday, April 1st –
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 39 loads of Cat I material were hauled from Area 11 to the screener. Continued hauling Cat I material stockpiled in Bin 4 to the screener – a total of 42 loads were hauled to the screener. A total of 27 loads of screened Cat I material was hauled from the screener to Bin 7 and 36 loads of screened Cat I material was placed in Bin 5. A total of 27 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. SLI Engingeering completed the final as-built topographic survey of Pond 6. Continued the surface preparation of the Pond 6 slopes for the eventual installation of the liner. The Elgin Sweeper was used to clean the haul roads from Area 11 to the Bins Building and around the screening building.

Wednesday, April 2nd -
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 65 loads of Cat I material were hauled from Area 11 to the screener. A total of 45 loads of

screened Cat I material was hauled from the screener to Bin 5. A total of 13 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9. PolyFlex delivered the remaining 2 rolls of 40Mil Textured LLDPE. The liner was unloaded and stored on the east side of the Laboratory Building at Pond 6.

Thursday, April 3rd –
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 41 loads of Cat I material were hauled from Area 11 to the screener. Managing concrete debris in Area 11. Concrete debris is being stockpiled in staging area west of the Cat I excavation. Continued hauling Cat I material stockpiled in Bin 4 to the screener – a total of 13 loads were hauled to the screener. A total of 36 loads of screened Cat I material was hauled from the screener to Bin 5. A total of 20 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9 and 4 loads were placed in Bin 12.

Friday, April 4th –
The water truck was used in the work areas and haul road for dust control. Continued to haul Cat I Material staged in Area 11 to the screening unit and continued screening for the Protective Cover material. A total of 17loads of Cat I material were hauled from Area 11 to the screener. Continued managing concrete debris in Area 11. Concrete debris is being stockpiled in staging area west of the Cat I excavation. Began hauling Cat I material stockpiled in Bin 11 to the screener – a total of 39 loads were hauled to the screener. Continued hauling Cat I material from Bin 4 to the screener – a total of 27 loads were hauled to the screener. A total of 45 loads of screened Cat I material was hauled from the screener to Bin 5. A total of 8 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 9 and 5 loads were placed in Bin 12.

Saturday, April 5th -
Continued managing concrete debris in Area 11. Concrete debris is being stockpiled in staging area west of the Cat I excavation. Performed maintenance of haul roads and stormwater berms in Area 11. Completed screening stockpiled Cat I material in the screening building, and then performed maintenance on the screener.

Sunday, April 6th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue screening Category I material stored in the Bins Building. Begin hauling the stockpiled overburden pile and placing along the Slag Fines pile for erosion control.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I Material from Bins Building & Area 11 to Screener & Hauled Screened Cat I material back to Bins Building

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

Received signed approval from Raba Kistner for GCL liner material.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **4/6/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	3/31/08	YES	Cat I - From Bins Building & Area 11
Tuesday	4/1/08	YES	Cat I - From Bins Building & Area 11
Wednesday	4/2/08	YES	Cat I - From Bins Building & Area 11
Thursday	4/3/08	YES	Cat I - From Bins Building & Area 11
Friday	4/4/08	YES	Cat I - From Bins Building & Area 11
Saturday	4/5/08	YES	Cat I - Stockpiled in Screening Building
Sunday	4/6/08	NO	
	TOTAL SCREENING DAYS APRIL	**5**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Keith Gates

DATE April 7, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN
3/17/08	49	191	490	1,910.0	BIN 2 TO SCREEN
3/17/08	32	223	320	2,230.0	AREA 11 TO SCREEN
3/18/08	22	245	220	2,450.0	BIN 2 TO SCREEN
3/18/08	55	300	550	3,000.0	AREA 11 TO SCREEN
3/18/08	2	302	20	3,020.0	BIN 4 TO SCREEN
3/19/08	18	320	180	3,200.0	BIN 4 TO SCREEN
3/19/08	61	381	610	3,810.0	AREA 11 TO SCREEN
3/20/08	44	425	440	4,250.0	BIN 4 TO SCREEN
3/20/08	39	464	390	4,640.0	AREA 11 TO SCREEN
3/21/08	50	514	500	5,140.0	BIN 4 TO SCREEN
3/21/08	39	553	390	5,530.0	AREA 11 TO SCREEN
3/24/08	69	622	690	6,220.0	AREA 11 TO SCREEN
3/25/08	54	676	540	6,760.0	AREA 11 TO SCREEN
3/26/08	58	734	580	7,340.0	AREA 11 TO SCREEN
3/27/08	40	774	400	7,740.0	AREA 11 TO SCREEN
3/27/08	40	814	400	8,140.0	BIN 4 TO SCREEN
3/28/08	39	853	390	8,530.0	AREA 11 TO SCREEN
3/28/08	55	908	550	9,080.0	BIN 4 TO SCREEN
3/29/08	30	938	300	9,380.0	AREA 11 TO SCREEN
3/29/08	12	950	120	9,500.0	BIN 4 TO SCREEN
3/31/08	38	988	380	9,880.0	AREA 11 TO SCREEN
3/31/08	46	1034	460	10,340.0	BIN 4 TO SCREEN
4/1/08	47	1081	470	10,810.0	AREA 11 TO SCREEN
4/1/08	48	1129	480	11,290.0	BIN 4 TO SCREEN
4/2/08	49	1178	490	11,780.0	AREA 11 TO SCREEN
4/3/08	50	1228	500	12,280.0	AREA 11 TO SCREEN
4/3/08	51	1279	510	12,790.0	BIN 4 TO SCREEN
4/4/08	52	1331	520	13,310.0	AREA 11 TO SCREEN
4/4/08	53	1384	530	13,840.0	BIN 4 TO SCREEN
4/4/08	54	1438	540	14,380.0	BIN 11 TO SCREEN

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 14,380.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8
3/17/08	46	132	460	1,320.0	BIN 8
3/18/08	52	184	520	1,840.0	BIN 8
3/19/08	48	232	480	2,320.0	BIN 8
3/20/08	61	293	610	2,930.0	BIN 8
3/21/08	33	326	330	3,260.0	BIN 8
3/21/08	31	357	310	3,570.0	BIN 7
3/24/08	26	383	260	3,830.0	BIN 7
3/24/08	24	407	240	4,070.0	BIN 8
3/25/08	25	432	250	4,320.0	BIN 7
3/25/08	14	446	140	4,460.0	BIN 8
3/26/08	35	481	350	4,810.0	BIN 7
3/26/08	7	488	70	4,880.0	BIN 8
3/27/08	49	537	490	5,370.0	BIN 7
3/27/08	8	545	80	5,450.0	BIN 8
3/28/08	58	603	580	6,030.0	BIN 7
3/29/08	35	638	350	6,380.0	BIN 7
3/31/08	50	688	500	6,880.0	BIN 7
3/31/08	1	689	10	6,890.0	BIN 5
4/1/08	27	716	270	7,160.0	BIN 7
4/1/08	36	752	360	7,520.0	BIN 5
4/2/08	45	797	450	7,970.0	BIN 5
4/3/08	36	833	360	8,330.0	BIN 5
4/4/08	45	878	450	8,780.0	BIN 5

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 8,780.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN 9
3/17/08	18	44	180	440.0	BIN 9
3/18/08	16	60	160	600.0	BIN 9
3/19/08	16	76	160	760.0	BIN 9
3/20/08	10	86	100	860.0	BIN 9
3/21/08	14	100	140	1,000.0	BIN 9
3/24/08	25	125	250	1,250.0	BIN 9
3/25/08	21	146	210	1,460.0	BIN 9
3/26/08	17	163	170	1,630.0	BIN 9
3/27/08	20	183	200	1,830.0	BIN 9
3/28/08	16	199	160	1,990.0	BIN 9
3/29/08	11	210	110	2,100.0	BIN 9
3/31/08	28	238	280	2,380.0	BIN 9
4/1/08	27	265	270	2,650.0	BIN 9
4/2/08	13	278	130	2,780.0	BIN 9
4/3/08	20	298	200	2,980.0	BIN 9
4/3/08	4	302	40	3,020.0	BIN 12
4/4/08	8	310	80	3,100.0	BIN 9
4/4/08	5	315	50	3,150.0	BIN 12

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 3,150.0

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	04-14-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 04/07/08 – 04/13/08
Weather:	Temp Average: 66 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, April 7th, 2008
The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 32 loads were hauled to the screener. A total of 24 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 15 loads of oversize Cat I material from the screening operation were loaded, transported, and placed in Bin 9 and 6 loads were placed in Bin 12. Began hauling the stockpiled, clean overburden soil located west of the screening building to the east side of the Slag Fines Pile. A total of 40 truck loads of overburden material were placed in the washouts and along the base of the Slag Fines Pile for additional erosion control. Maintenance and regrading of the haul roads in Area 11.

Tuesday, April 8th –
The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 42 loads were hauled to the screener. A total of 27 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 12 loads of oversize Cat I material from the screening operation were loaded, transported, and placed in Bin 9 and 49 loads were placed in Bin 12. Continued hauling the stockpiled, clean overburden soil located west of the screening building to the east side of the Slag Fines Pile for additional erosion control – a total of 49 truck loads were placed. Maintenance and regrading of the haul roads in Area 11 and between the bridges.

Wednesday, April 9th -
The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 36 loads were hauled to the screener. A total of 23 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 14 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 12. Completed hauling the stockpiled, clean overburden soil located to the east side of the Slag Fines Pile and then continued placement of the overburden soil along the base of the south side of the Fines Pile – a total of 47 truck loads of overburden was placed. Maintenance and regrading of the haul between the bridges.

Thursday, April 10th –
The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 33 loads were hauled to the screener. A total of 24 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 18 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 12. Continued placement of the overburden soil along the base of the south/southwest side of the Slag Fines Pile – a total of 53 truck loads were placed. The compactor was used in the overburden fill areas along the base of the Slag Fines Pile. Maintenance and regrading of the haul between the bridges.

Friday, April 11th –
The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 29 loads were hauled to the screener. A total of 21 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 16 loads of oversize Cat I material from the screening operation was loaded, transported, and placed in Bin 12. Continued placement of the overburden soil along the base of the south/southwest side of the Slag Fines Pile – a total of 50 truck loads were placed. The compactor was used in the overburden fill areas along the base of the Slag Fines Pile. Maintenance and regrading of the haul between the bridges.

Saturday, April 12th -
CETCO delivered 15 rolls of the GCL Bentomat DN liner – the rolls of liner were unloaded and placed in the liner storage area on the east side of the Laboratory Building. Inspected slopes and bottom of Pond 6 and removed any rocks that were protruding from the surface. Re-rolled the slopes and bottom of Pond 6. Performed maintenance on equipment.

Sunday, April 13th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete hauling the stockpiled overburden pile and placing along the Slag Fines pile for erosion control. Complete the installation of the GCL and 60mil HDPE liner in Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I Material from Bins to Screener & Hauled Screened Cat I material back to Bins Building. Hauled clean overburden pile west of screening building to the base of the Slag Fines Pile.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **4/13/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	4/7/08	YES	Cat I - From Bins Building
Tuesday	4/8/08	YES	Cat I - From Bins Building
Wednesday	4/9/08	YES	Cat I - From Bins Building
Thursday	4/10/08	YES	Cat I - From Bins Building
Friday	4/11/08	YES	Cat I - From Bins Building
Saturday	4/12/08	NO	
Sunday	4/13/08	NO	
	TOTAL SCREENING DAYS APRIL	**10**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Keith Gates

DATE April 14, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN
3/17/08	49	191	490	1,910.0	BIN 2 TO SCREEN
3/17/08	32	223	320	2,230.0	AREA 11 TO SCREEN
3/18/08	22	245	220	2,450.0	BIN 2 TO SCREEN
3/18/08	55	300	550	3,000.0	AREA 11 TO SCREEN
3/18/08	2	302	20	3,020.0	BIN 4 TO SCREEN
3/19/08	18	320	180	3,200.0	BIN 4 TO SCREEN
3/19/08	61	381	610	3,810.0	AREA 11 TO SCREEN
3/20/08	44	425	440	4,250.0	BIN 4 TO SCREEN
3/20/08	39	464	390	4,640.0	AREA 11 TO SCREEN
3/21/08	50	514	500	5,140.0	BIN 4 TO SCREEN
3/21/08	39	553	390	5,530.0	AREA 11 TO SCREEN
3/24/08	69	622	690	6,220.0	AREA 11 TO SCREEN
3/25/08	54	676	540	6,760.0	AREA 11 TO SCREEN
3/26/08	58	734	580	7,340.0	AREA 11 TO SCREEN
3/27/08	40	774	400	7,740.0	AREA 11 TO SCREEN
3/27/08	40	814	400	8,140.0	BIN 4 TO SCREEN
3/28/08	39	853	390	8,530.0	AREA 11 TO SCREEN
3/28/08	55	908	550	9,080.0	BIN 4 TO SCREEN
3/29/08	30	938	300	9,380.0	AREA 11 TO SCREEN
3/29/08	12	950	120	9,500.0	BIN 4 TO SCREEN
3/31/08	38	988	380	9,880.0	AREA 11 TO SCREEN
3/31/08	46	1034	460	10,340.0	BIN 4 TO SCREEN
4/1/08	47	1081	470	10,810.0	AREA 11 TO SCREEN
4/1/08	48	1129	480	11,290.0	BIN 4 TO SCREEN
4/2/08	49	1178	490	11,780.0	AREA 11 TO SCREEN
4/3/08	50	1228	500	12,280.0	AREA 11 TO SCREEN
4/3/08	51	1279	510	12,790.0	BIN 4 TO SCREEN
4/4/08	52	1331	520	13,310.0	AREA 11 TO SCREEN
4/4/08	53	1384	530	13,840.0	BIN 4 TO SCREEN
4/4/08	54	1438	540	14,380.0	BIN 11 TO SCREEN
4/7/08	32	1470	320	14,700.0	BIN 11 TO SCREEN
4/8/08	42	1512	420	15,120.0	BIN 11 TO SCREEN
4/9/08	36	1548	360	15,480.0	BIN 11 TO SCREEN
4/10/08	33	1581	330	15,810.0	BIN 11 TO SCREEN
4/11/08	29	1610	290	16,100.0	BIN 11 TO SCREEN

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 16,100.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8
3/17/08	46	132	460	1,320.0	BIN 8
3/18/08	52	184	520	1,840.0	BIN 8
3/19/08	48	232	480	2,320.0	BIN 8
3/20/08	61	293	610	2,930.0	BIN 8
3/21/08	33	326	330	3,260.0	BIN 8
3/21/08	31	357	310	3,570.0	BIN 7
3/24/08	26	383	260	3,830.0	BIN 7
3/24/08	24	407	240	4,070.0	BIN 8
3/25/08	25	432	250	4,320.0	BIN 7
3/25/08	14	446	140	4,460.0	BIN 8
3/26/08	35	481	350	4,810.0	BIN 7
3/26/08	7	488	70	4,880.0	BIN 8
3/27/08	49	537	490	5,370.0	BIN 7
3/27/08	8	545	80	5,450.0	BIN 8
3/28/08	58	603	580	6,030.0	BIN 7
3/29/08	35	638	350	6,380.0	BIN 7
3/31/08	50	688	500	6,880.0	BIN 7
3/31/08	1	689	10	6,890.0	BIN 5
4/1/08	27	716	270	7,160.0	BIN 7
4/1/08	36	752	360	7,520.0	BIN 5
4/2/08	45	797	450	7,970.0	BIN 5
4/3/08	36	833	360	8,330.0	BIN 5
4/4/08	45	878	450	8,780.0	BIN 5
4/7/08	24	902	240	9,020.0	BIN 5
4/8/08	27	929	270	9,290.0	BIN 5
4/9/08	23	952	230	9,520.0	BIN 5
4/10/08	24	976	240	9,760.0	BIN 5
4/11/08	21	997	210	9,970.0	BIN 5

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 9,970.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN 9
3/17/08	18	44	180	440.0	BIN 9
3/18/08	16	60	160	600.0	BIN 9
3/19/08	16	76	160	760.0	BIN 9
3/20/08	10	86	100	860.0	BIN 9
3/21/08	14	100	140	1,000.0	BIN 9
3/24/08	25	125	250	1,250.0	BIN 9
3/25/08	21	146	210	1,460.0	BIN 9
3/26/08	17	163	170	1,630.0	BIN 9
3/27/08	20	183	200	1,830.0	BIN 9
3/28/08	16	199	160	1,990.0	BIN 9
3/29/08	11	210	110	2,100.0	BIN 9
3/31/08	28	238	280	2,380.0	BIN 9
4/1/08	27	265	270	2,650.0	BIN 9
4/2/08	13	278	130	2,780.0	BIN 9
4/3/08	20	298	200	2,980.0	BIN 9
4/3/08	4	302	40	3,020.0	BIN 12
4/4/08	8	310	80	3,100.0	BIN 9
4/4/08	5	315	50	3,150.0	BIN 12
4/7/08	15	330	150	3,300.0	BIN 9
4/7/08	6	336	60	3,360.0	BIN 12
4/8/08	12	348	120	3,480.0	BIN 9
4/9/08	14	362	140	3,620.0	BIN 12
4/10/08	18	380	180	3,800.0	BIN 12
4/11/08	16	396	160	3,960.0	BIN 12

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 3,960.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item B.3.1 - Excavate Clean Overburden Soil, Transport, Place & Compact along Base of Slag Fines Pile for Erosion Control

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	OVERBURDEN PILE	PLACED
4/7/08	40	40	400	400	West of Unloading Building	East Side of Slag Fines Pile
4/8/08	49	89	490	890	West of Unloading Building	East Side of Slag Fines Pile
4/9/08	47	136	470	1,360	West of Unloading Building	South Side of Slag Fines Pile
4/10/08	53	189	530	1,890	West of Unloading Building	South/Southest Side of Slag Fines Pile
4/11/08	50	239	500	2,390	West of Unloading Building	South/Southest Side of Slag Fines Pile

* 2.5CY Bucket on Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	04-21-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 04/14/08 – 04/20/08
Weather:	Temp Average: 66 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, April 14th, 2008
CETCO delivered 30 rolls of GCL liner material and the rolls were staged in the liner storage area east of the Laboratory Building by Pond 6. Environmental Services, Inc (ESI) mobilized to the site to begin installation of the liner. Entact gave ESI the Asarco Site orientation and went over Entact’s safety policies and safety plan. ESI mobilized an all-terrain forklift for the deployment of the liner. Entact began digging the anchor trench for liner placement on the west end of Pond 6. ESI began placement of GCL liner along the west end of Pond 6 and then covered the GCL with 60Mil textured HDPE. Approximately 19,145 sqft of GCL and 16,623 sqft of 60Mil HDPE was installed. Before the end of the shift, backfill was placed into the anchor trench over the installed liner.

The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 25 loads were hauled to the screener. A total of 15 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 2 loads of oversize Cat I material from the screening operation were loaded, transported, and placed in Bin 12. Continued placement of the overburden soil along the base of the south/southwest side of the Slag Fines Pile – a total of 40 truck loads were placed. The compactor was used in the overburden fill areas along the base of the Slag Fines Pile.

Tuesday, April 15th –
Entact continued digging the anchor trench for liner placement on the north, south, and east sides of Pond 6. ESI completed placement of GCL liner along the north, south, and east sides of Pond 6 and then continued covering the GCL with 60Mil textured HDPE. Approximately 60,450 sqft of GCL and 21,322 sqft of 60Mil HDPE was installed. Before the end of the shift, backfill was placed into the anchor trench over the installed liner.

The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 26 loads were hauled to the screener. A total of 12 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 9 loads of oversize Cat I material from the screening operation were loaded, transported, and placed in Bin 12. Continued placement of the overburden soil along the base of the south/southwest side of the Slag Fines Pile – a total

of 57 truck loads were placed. The compactor was used in the overburden fill areas along the base of the Slag Fines Pile.

Wednesday, April 16th -
ESI completed placement of 60Mil HDPE liner along the east side of Pond6. Approximately 31,804 sqft of 60Mil HDPE was installed. ESI continued performing testing of seams and welding of patches.

The water truck was used in the work areas and haul road for dust control. Continued hauling Cat I material stockpiled in Bin 11 to the screener – a total of 42 loads were hauled to the screener. A total of 20 loads of screened Cat I material were hauled from the screener to Bin 5. A total of 14 loads of oversize Cat I material from the screening operation were loaded, transported, and placed in Bin 12. Continued placement of the overburden soil along the base of the south/southwest side of the Slag Fines Pile – a total of 24 truck loads were placed. The compactor was used in the overburden fill areas along the base of the Slag Fines Pile.

Thursday, April 17th –
ESI completed testing of the liner materials and completed welding of all patches and repairs. A final inspection of the installed liner was performed and Entact approved the completion of the liner project. ESI demobilized from the site.

Entact built a gravel construction exit road from the east side of Pond 6 to the upper haul road for the dump trucks to use when exiting Pond 6. The water truck was used for dust control during the installation of the gravel road.

Friday, April 18th –
Removed riprap from between the railroad tracks near the Plant entrance and rearranged the riprap along the slope for erosion control. Completed cleaning up the area where the overburden pile was located on the west side of the Screening building. Constructed a load out pad in Bin 5 for the JD 120 Excavator, in preparation for loading out screened Cat I material. Performed housekeeping and picked up windblown debris around Pond 6 and along the fence line on the upper haul road.

Saturday, April 19th -
Rotation weekend for the majority of the crew – No Work Activities.

Sunday, April 20th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue hauling screened Cat I material into Pond 6 for the 2' Protective Cover.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I Material from Bins to Screener & Hauled Screened Cat I material back to Bins Building. Hauled clean overburden pile west of screening building to the base of the Slag Fines Pile.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **4/20/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	4/14/08	Yes	Cat I - From Bins Building
Tuesday	4/15/08	Yes	Cat I - From Bins Building
Wednesday	4/16/08	Yes	Cat I - From Bins Building
Thursday	4/17/08	NO	
Friday	4/18/08	NO	
Saturday	4/19/08	NO	
Sunday	4/20/08	NO	
	TOTAL SCREENING DAYS APRIL	**13**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Keith Gates

DATE April 21, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN
3/17/08	49	191	490	1,910.0	BIN 2 TO SCREEN
3/17/08	32	223	320	2,230.0	AREA 11 TO SCREEN
3/18/08	22	245	220	2,450.0	BIN 2 TO SCREEN
3/18/08	55	300	550	3,000.0	AREA 11 TO SCREEN
3/18/08	2	302	20	3,020.0	BIN 4 TO SCREEN
3/19/08	18	320	180	3,200.0	BIN 4 TO SCREEN
3/19/08	61	381	610	3,810.0	AREA 11 TO SCREEN
3/20/08	44	425	440	4,250.0	BIN 4 TO SCREEN
3/20/08	39	464	390	4,640.0	AREA 11 TO SCREEN
3/21/08	50	514	500	5,140.0	BIN 4 TO SCREEN
3/21/08	39	553	390	5,530.0	AREA 11 TO SCREEN
3/24/08	69	622	690	6,220.0	AREA 11 TO SCREEN
3/25/08	54	676	540	6,760.0	AREA 11 TO SCREEN
3/26/08	58	734	580	7,340.0	AREA 11 TO SCREEN
3/27/08	40	774	400	7,740.0	AREA 11 TO SCREEN
3/27/08	40	814	400	8,140.0	BIN 4 TO SCREEN
3/28/08	39	853	390	8,530.0	AREA 11 TO SCREEN
3/28/08	55	908	550	9,080.0	BIN 4 TO SCREEN
3/29/08	30	938	300	9,380.0	AREA 11 TO SCREEN
3/29/08	12	950	120	9,500.0	BIN 4 TO SCREEN
3/31/08	38	988	380	9,880.0	AREA 11 TO SCREEN
3/31/08	46	1034	460	10,340.0	BIN 4 TO SCREEN
4/1/08	47	1081	470	10,810.0	AREA 11 TO SCREEN
4/1/08	48	1129	480	11,290.0	BIN 4 TO SCREEN
4/2/08	49	1178	490	11,780.0	AREA 11 TO SCREEN
4/3/08	50	1228	500	12,280.0	AREA 11 TO SCREEN
4/3/08	51	1279	510	12,790.0	BIN 4 TO SCREEN
4/4/08	52	1331	520	13,310.0	AREA 11 TO SCREEN
4/4/08	53	1384	530	13,840.0	BIN 4 TO SCREEN
4/4/08	54	1438	540	14,380.0	BIN 11 TO SCREEN
4/7/08	32	1470	320	14,700.0	BIN 11 TO SCREEN
4/8/08	42	1512	420	15,120.0	BIN 11 TO SCREEN
4/9/08	36	1548	360	15,480.0	BIN 11 TO SCREEN
4/10/08	33	1581	330	15,810.0	BIN 11 TO SCREEN
4/11/08	29	1610	290	16,100.0	BIN 11 TO SCREEN
4/14/08	25	1635	250	16,350.0	BIN 11 TO SCREEN
4/15/08	26	1661	260	16,610.0	BIN 11 TO SCREEN
4/16/08	42	1703	420	17,030.0	BIN 11 TO SCREEN

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 17,030.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8
3/17/08	46	132	460	1,320.0	BIN 8
3/18/08	52	184	520	1,840.0	BIN 8
3/19/08	48	232	480	2,320.0	BIN 8
3/20/08	61	293	610	2,930.0	BIN 8
3/21/08	33	326	330	3,260.0	BIN 8
3/21/08	31	357	310	3,570.0	BIN 7
3/24/08	26	383	260	3,830.0	BIN 7
3/24/08	24	407	240	4,070.0	BIN 8
3/25/08	25	432	250	4,320.0	BIN 7
3/25/08	14	446	140	4,460.0	BIN 8
3/26/08	35	481	350	4,810.0	BIN 7
3/26/08	7	488	70	4,880.0	BIN 8
3/27/08	49	537	490	5,370.0	BIN 7
3/27/08	8	545	80	5,450.0	BIN 8
3/28/08	58	603	580	6,030.0	BIN 7
3/29/08	35	638	350	6,380.0	BIN 7
3/31/08	50	688	500	6,880.0	BIN 7
3/31/08	1	689	10	6,890.0	BIN 5
4/1/08	27	716	270	7,160.0	BIN 7
4/1/08	36	752	360	7,520.0	BIN 5
4/2/08	45	797	450	7,970.0	BIN 5
4/3/08	36	833	360	8,330.0	BIN 5
4/4/08	45	878	450	8,780.0	BIN 5
4/7/08	24	902	240	9,020.0	BIN 5
4/8/08	27	929	270	9,290.0	BIN 5
4/9/08	23	952	230	9,520.0	BIN 5
4/10/08	24	976	240	9,760.0	BIN 5
4/11/08	21	997	210	9,970.0	BIN 5
4/14/08	15	1012	150	10,120.0	BIN 5
4/15/08	12	1024	120	10,240.0	BIN 5
4/16/08	20	1044	200	10,440.0	BIN 5

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 10,440.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN 9
3/17/08	18	44	180	440.0	BIN 9
3/18/08	16	60	160	600.0	BIN 9
3/19/08	16	76	160	760.0	BIN 9
3/20/08	10	86	100	860.0	BIN 9
3/21/08	14	100	140	1,000.0	BIN 9
3/24/08	25	125	250	1,250.0	BIN 9
3/25/08	21	146	210	1,460.0	BIN 9
3/26/08	17	163	170	1,630.0	BIN 9
3/27/08	20	183	200	1,830.0	BIN 9
3/28/08	16	199	160	1,990.0	BIN 9
3/29/08	11	210	110	2,100.0	BIN 9
3/31/08	28	238	280	2,380.0	BIN 9
4/1/08	27	265	270	2,650.0	BIN 9
4/2/08	13	278	130	2,780.0	BIN 9
4/3/08	20	298	200	2,980.0	BIN 9
4/3/08	4	302	40	3,020.0	BIN 12
4/4/08	8	310	80	3,100.0	BIN 9
4/4/08	5	315	50	3,150.0	BIN 12
4/7/08	15	330	150	3,300.0	BIN 9
4/7/08	6	336	60	3,360.0	BIN 12
4/8/08	12	348	120	3,480.0	BIN 9
4/9/08	14	362	140	3,620.0	BIN 12
4/10/08	18	380	180	3,800.0	BIN 12
4/11/08	16	396	160	3,960.0	BIN 12
4/14/08	2	398	20	3,980.0	BIN 12
4/15/08	9	407	90	4,070.0	BIN 12
4/16/08	14	421	140	4,210.0	BIN 12

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 4,210.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN 9
3/17/08	18	44	180	440.0	BIN 9
3/18/08	16	60	160	600.0	BIN 9
3/19/08	16	76	160	760.0	BIN 9
3/20/08	10	86	100	860.0	BIN 9
3/21/08	14	100	140	1,000.0	BIN 9
3/24/08	25	125	250	1,250.0	BIN 9
3/25/08	21	146	210	1,460.0	BIN 9
3/26/08	17	163	170	1,630.0	BIN 9
3/27/08	20	183	200	1,830.0	BIN 9
3/28/08	16	199	160	1,990.0	BIN 9
3/29/08	11	210	110	2,100.0	BIN 9
3/31/08	28	238	280	2,380.0	BIN 9
4/1/08	27	265	270	2,650.0	BIN 9
4/2/08	13	278	130	2,780.0	BIN 9
4/3/08	20	298	200	2,980.0	BIN 9
4/3/08	4	302	40	3,020.0	BIN 12
4/4/08	8	310	80	3,100.0	BIN 9
4/4/08	5	315	50	3,150.0	BIN 12
4/7/08	15	330	150	3,300.0	BIN 9
4/7/08	6	336	60	3,360.0	BIN 12
4/8/08	12	348	120	3,480.0	BIN 9
4/9/08	14	362	140	3,620.0	BIN 12
4/10/08	18	380	180	3,800.0	BIN 12
4/11/08	16	396	160	3,960.0	BIN 12
4/14/08	2	398	20	3,980.0	BIN 12
4/15/08	9	407	90	4,070.0	BIN 12
4/16/08	14	421	140	4,210.0	BIN 12

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 4,210.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item B.3.1 - Excavate Clean Overburden Soil, Transport, Place & Compact along Base of Slag Fines Pile for Erosion Control

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	OVERBURDEN PILE	PLACED
4/7/08	40	40	400	400	West of Unloading Building	East Side of Slag Fines Pile
4/8/08	49	89	490	890	West of Unloading Building	East Side of Slag Fines Pile
4/9/08	47	136	470	1,360	West of Unloading Building	South Side of Slag Fines Pile
4/10/08	53	189	530	1,890	West of Unloading Building	South/Southwest Side of Slag Fines Pile
4/11/08	50	239	500	2,390	West of Unloading Building	South/Southwest Side of Slag Fines Pile
4/14/08	40	279	400	2,790	West of Unloading Building	South/Southwest Side of Slag Fines Pile
4/15/08	57	336	570	3,360	West of Unloading Building	South/Southwest Side of Slag Fines Pile
4/16/08	24	360	240	3,600	West of Unloading Building	South/Southwest Side of Slag Fines Pile

* 2.5CY Bucket on Excavator - 4 buckets per Truck Load = 10CY per Truck

SCALE - 1"=30'

30 0 30 60

DS - DESTRUCTIVE TEST ON FUSION WELDED SEAMS

DSE - DESTRUCTIVE TEST ON EXTRUSION WELDED SEAMS & REPAIRS

ENVIRONMENTAL SPECIALTIES INTERNATIONAL
7943 PECUE LANE SUITE A
BATON ROUGE, LOUISIANA 70809

NORTH

REV	DESCRIPTION	DATE	BY
1	DS FUSION		
2	DS EXTRUSION		

TITLE:

ASARCO, INC
ELPASO FACILITY
POND 6 CONSTRUCTION & CLOSURE
EL PASO, TX

CHECKED BY:	DATE
04-20-08	
DRAWN BY:	DATE
JOSE N. REYES	
SCALE	
1"=30'	
JOB NUMBER	
08-02-1019	
SHEET NUMBER	
1 OF 1	

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	04-28-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 04/21/08 – 04/27/08
Weather:	Temp Average: 66 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, April 21st, 2008
Began loading screened Cat I material staged in Bins 5, 7, and 8, and hauled to the east end of Pond 6 to begin constructing a ramp down into the cell in preparation for placing the 2’ Protective Cover over the liner. The water truck was used on the haul roads and in Pond 6 for dust control. In Area 11, the excavator was utilized to continue segregating large concrete debris from the Cat I excavation area.

Tuesday, April 22nd –
Continued loading screened Cat I material staged in Bins 5, 7, and 8, and completed constructing the ramp down into the bottom of Pond 6. Began placing the 2’ Protective Cover over the liner in the bottom, the eastern and southeastern side slopes. The water truck was used on the haul roads and in Pond 6 for dust control. The Elgin Sweeper was used for approximately 2.5 hours to begin cleaning the haul route from the Bins Building to Pond 6. Continued to utilize the excavator in Area 11 to segregate large concrete debris from the Cat I excavation area. The remaining 8 rolls of GCL liner were relocated from the Pond 6 storage area into a material storage building north of Pond 6. The liner was placed on pallets to keep the material off the ground.

Wednesday, April 23rd -
Continued loading screened Cat I material staged in Bins 5, 7, and 8, and continued placing the 2’ Protective Cover over the liner in the bottom , north, and south side slopes. The water truck was used on the haul roads and in Pond 6 for dust control. The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6. Continued to utilize the excavator in Area 11 to segregate large concrete debris from the Cat I excavation area.

Thursday, April 24th –
Continued loading screened Cat I material staged in Bins 5, 7, and 8, and continued placing the 2’ Protective Cover over the liner in the bottom , north, and south side slopes. The water truck was used on the haul roads and in Pond 6 for dust control. The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6. Continued to utilize the excavator in Area 11 to segregate large concrete debris from the Cat I excavation area.

Friday, April 25th –
Continued loading screened Cat I material staged in Bins 5, 7, and 8, and completed placing the 2' Protective Cover over the liner in the bottom and west side slopes. The water truck was used on the haul roads and in Pond 6 for dust control. The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6. Continued to utilize the excavator in Area 11 to segregate large concrete debris from the Cat I excavation area. Utilized the haul trucks to relocate the segregated concrete debris to the concrete staging area west of the Area 11 excavation area. Hauled the remaining oversize Cat I material from the screening building to Bin 12 in the Bins Building.

Saturday, April 26th -
Continued to utilize the excavator in Area 11 to segregate large concrete debris from the Cat I excavation area. Performed grading work on the haul roads in Area 11. Completed grading the 2' Protective Cover over the liner in Pond 6. The sheepsfoot roller was used to compact the 2' Protective Cover in the bottom and side slopes of Pond 6. Performed maintenance and cleaning on the screening unit.

Sunday, April 27th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Begin placement of Cat I material in Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Screened Cat I Material from Bins to Pond 6 for the 2' Protective Cover. Hauled Concrete in Area 11 to concrete stockpile area.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **4/27/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	4/21/08	Did not use
Tuesday	4/22/08	From Screening Building and Bins Building to Pond 6 - 0.25 DAY
Wednesday	4/23/08	From Screening Building and Bins Building to Pond 6 - 0.50 DAY
Thursday	4/24/08	From Screening Building and Bins Building to Pond 6 - 0.50 DAY
Friday	4/25/08	From Screening Building and Bins Building to Pond 6 - 0.50 DAY
Saturday	4/26/08	Did not use
Sunday	4/27/08	No Site Activities

The above task is charged at a daily unit rate - TOTAL DAYS **1.75 Days**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE April 28, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Bins and Place in Pond 6 - 2' Protective Cover

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM BIN TO POND
4/21/08	47	47	470	470.0	BIN 5
4/21/08	64	111	640	1,110.0	BIN 7
4/21/08	85	196	850	1,960.0	BIN 8
4/22/08	41	237	410	2,370.0	BIN 5
4/22/08	51	288	510	2,880.0	BIN 7
4/22/08	63	351	630	3,510.0	BIN 8
4/23/08	29	380	290	3,800.0	BIN 5
4/23/08	63	443	630	4,430.0	BIN 7
4/23/08	63	506	630	5,060.0	BIN 8
4/24/08	71	577	710	5,770.0	BIN 7
4/24/08	78	655	780	6,550.0	BIN 8
4/25/08	38	693	380	6,930.0	BIN 8

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 6,930.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to Bin / Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	2	2	20	20.0	BIN 9
3/13/08	16	18	160	180.0	BIN 9
3/14/08	8	26	80	260.0	BIN 9
3/15/08	0	26	0	260.0	BIN 9
3/17/08	18	44	180	440.0	BIN 9
3/18/08	16	60	160	600.0	BIN 9
3/19/08	16	76	160	760.0	BIN 9
3/20/08	10	86	100	860.0	BIN 9
3/21/08	14	100	140	1,000.0	BIN 9
3/24/08	25	125	250	1,250.0	BIN 9
3/25/08	21	146	210	1,460.0	BIN 9
3/26/08	17	163	170	1,630.0	BIN 9
3/27/08	20	183	200	1,830.0	BIN 9
3/28/08	16	199	160	1,990.0	BIN 9
3/29/08	11	210	110	2,100.0	BIN 9
3/31/08	28	238	280	2,380.0	BIN 9
4/1/08	27	265	270	2,650.0	BIN 9
4/2/08	13	278	130	2,780.0	BIN 9
4/3/08	20	298	200	2,980.0	BIN 9
4/3/08	4	302	40	3,020.0	BIN 12
4/4/08	8	310	80	3,100.0	BIN 9
4/4/08	5	315	50	3,150.0	BIN 12
4/7/08	15	330	150	3,300.0	BIN 9
4/7/08	6	336	60	3,360.0	BIN 12
4/8/08	12	348	120	3,480.0	BIN 9
4/9/08	14	362	140	3,620.0	BIN 12
4/10/08	18	380	180	3,800.0	BIN 12
4/11/08	16	396	160	3,960.0	BIN 12
4/14/08	2	398	20	3,980.0	BIN 12
4/15/08	9	407	90	4,070.0	BIN 12
4/16/08	14	421	140	4,210.0	BIN 12
4/24/08	21	442	210	4,420.0	BIN 12

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 4,420.0

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	05-05-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 04/28/08 – 05/04/08
Weather:	Temp Average: 68 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, April 28th, 2008
SLI Engineering performed a cross section survey across Pond 6 to verify a minimum of 2’ Protective Cover was placed over the liner. All points were verified to have a minimum of 2’. Loaded the JLD Cat I material from the concrete stalls near Pond 1 and hauled to Pond6. Began loading Cat I material in Bin 2 (which was too wet to run through screener) and hauled directly to Pond 6. Began loading Cat I material from Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Tuesday, April 29th –
Continued loading Cat I material in Bin 2 and hauled directly to Pond 6. Continued loading Cat I material from Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Wednesday, April 30th -
Continued loading Cat I material in Bin 2 and hauled directly to Pond 6. Continued loading Cat I material from Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Thursday, May 1st –
Continued loading Cat I material in Bin 2 and hauled directly to Pond 6. Continued loading Cat I material from Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Friday, May 2nd –
Continued loading Cat I material in Bin 2 and hauled directly to Pond 6. Continued loading Cat I material from Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. Installed two water cannons at Pond 6 to aid with dust control in and around the Pond. One was placed on the west end of the cell and the other was placed near the southeast side.

Saturday, May 3rd -
Continued loading Cat I material in Bin 2 and hauled directly to Pond 6. Continued loading Cat I material from Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Area 11, and along the haul routes. The water cannons were utilized in Pond 6 for dust control.

Sunday, May 4th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue placement of Cat I material in Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 and Bin 2 to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **5/4/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	4/28/08	From Screening Building and Bins Building to Pond 6 - 0.50 DAY
Tuesday	4/29/08	From Screening Building and Bins Building to Pond 6 - 0.50 DAY
Wednesday	4/30/08	From Screening Building and Bins Building to Pond 6 - 0.50 DAY
Thursday	5/1/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Friday	5/2/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Saturday	5/3/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Sunday	5/4/08	

The above task is charged at a daily unit rate - TOTAL DAYS MAY **1.5 Days**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE May 5, 2008

Asarco, El Paso Smelter

AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	300	300	AREA 11
4/28/08	19	44	228	528	BIN 2
4/28/08	31	75	372	900	JLD Screened Pile
4/29/08	85	160	1,020	1,920	AREA 11
4/29/08	38	198	456	2,376	BIN 2
4/30/08	84	282	1,008	3,384	AREA 11
4/30/08	54	336	648	4,032	BIN 2
5/1/08	82	418	984	5,016	AREA 11
5/1/08	37	455	444	5,460	BIN 2
5/2/08	78	533	936	6,396	AREA 11
5/2/08	49	582	588	6,984	BIN 2
5/3/08	68	650	816	7,800	AREA 11
5/3/08	35	685	420	8,220	BIN 2

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	05-12-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 05/05/08 – 05/11/08
Weather:	Temp Average: 74 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, May 5th, 2008
Continued loading Cat I material from Area 11 and hauled to Pond 6. Completed hauling Cat I material from Bin 2 to Pond 6 and began hauling Cat I material from Bin 11 to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

Asarco staked out a 50’ grid around the location of the original soil boring in Area 1A-5, which is located across Paisano Drive, between Paisano and the American Canal. Entact mobilized a front end loader to the site and began excavating soil from the 50’ grid. Asarco performed XRF screening to guide the depth of the excavation. A portion of the east side of the grid had to be excavated down to approximately 8’ below original grade and the remainder of the grid was excavated down to approximately 1’-2’ below original grade. Asarco collect verification samples from the bottom of the excavation. Existing site soils were used to backfill the excavation.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Tuesday, May 6th –
Continued loading Cat I material from Area 11 and hauled to Pond 6. Continued hauling Cat I material from Bin 11 to Pond 6. Began loading the Cat I material from Area 1A-5 into single axle dump trucks, and transported and placed the material in Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Wednesday, May 7th -
Continued loading Cat I material from Area 11 and hauled to Pond 6. Completed hauling Cat I material from Bin 11 to Pond 6 and then began hauling Cat I material from Bin 12 to Pond 6. Completed loading

the Cat I material from Area 1A-5 into single axle dump trucks, and transported and placed the material in Pond 6. Before completing Area 1A-5, an additional 6" of material was removed from the location of the stockpile and was loaded and transported to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Thursday, May 8th –
Continued loading Cat I material from Area 11 and hauled to Pond 6. Completed hauling Cat I material from Bin 12 to Pond 6 and then began hauling Cat I material from Bin 10 to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Friday, May 9th –
Continued loading Cat I material from Area 11 and hauled to Pond 6. Completed hauling Cat I material from Bin 10 to Pond 6 and then began hauling Cat I material from Bin 9 to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Saturday, May 10th -
Performed site housekeeping and cleaning of office, bathroom, breakroom, dressing room, and equipment.

Sunday, May 11th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue placement of Cat I material in Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 and Bins Building to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

The specification for the proposed double sided geocomposite was sent to Raba Kistner on May 1, 2008 for review and/or comments. As of Friday, May 9th, there has been no response from Raba Kistner regarding the material. Entact cannot issue a purchase order and lock in pricing for the material until Raba Kistner approves and signs off on the specification.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **5/11/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	5/5/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Tuesday	5/6/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Wednesday	5/7/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Thursday	5/8/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Friday	5/9/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Saturday	5/10/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Sunday	5/11/08	

The above task is charged at a daily unit rate - TOTAL DAYS MAY **4.5 Days**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE May 12, 2008

Asarco, El Paso Smelter

AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	300	300	AREA 11
4/28/08	19	44	228	528	BIN 2
4/28/08	31	75	372	900	JLD Screened Pile
4/29/08	85	160	1,020	1,920	AREA 11
4/29/08	38	198	456	2,376	BIN 2
4/30/08	84	282	1,008	3,384	AREA 11
4/30/08	54	336	648	4,032	BIN 2
5/1/08	82	418	984	5,016	AREA 11
5/1/08	37	455	444	5,460	BIN 2
5/2/08	78	533	936	6,396	AREA 11
5/2/08	49	582	588	6,984	BIN 2
5/3/08	68	650	816	7,800	AREA 11
5/3/08	35	685	420	8,220	BIN 2
5/5/08	86	771	1,032	9,252	AREA 11
5/5/08	44	815	528	9,780	BIN 2
5/5/08	2	817	24	9,804	BIN 11
5/6/08	95	912	1,140	10,944	AREA 11
5/6/08	53	965	636	11,580	BIN 11
5/7/08	101	1,066	1,212	12,792	AREA 11
5/7/08	46	1,112	552	13,344	BIN 11
5/7/08	11	1,123	132	13,476	BIN 12
5/8/08	70	1,193	840	14,316	AREA 11
5/8/08	87	1,280	1,044	15,360	BIN 12
5/8/08	3	1,283	36	15,396	BIN 10
5/9/08	69	1,352	828	16,224	AREA 11
5/9/08	61	1,413	732	16,956	BIN 10
5/9/08	21	1,434	252	17,208	BIN 9

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

Asarco, El Paso Smelter

AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 6CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
5/6/08	24	24	144	144	1A-5
5/7/08	18	42	108	252	1A-5

Single Axle Trucks - Loaded w/ 6CY of Material in order to cover load with tarp

TOTAL CUBIC YARDS OF CAT I MATERIAL REMOVED FROM AREA 1A-5 252

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	05-19-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 05/12/08 – 05/18/08
Weather:	Temp Average: 68 Rainfall Total for Week: 0.03" Friday

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, May 12th, 2008
Continued hauling Cat I material from Bin 9 to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal and stockpiling in Area 11.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6 and along the haul routes.

Tuesday, May 13th –
Completed hauling Cat I material from Bin 9 to Pond 6. The only Cat I material left in the Bins building is screened material for the Intermediate Layer. There is approximately 2000cy in Bin 5, approximately 900cy in Bin7, and approximately 1100cy in Bin8. Resumed excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Wednesday, May 14th -
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Thursday, May 15th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

Friday, May 16th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes.

The operation was shut down at approximately 1:00pm due to the electrical contractor began setting up to drill pole locations at Pond 6 and was blocking the entrance into the Pond.

Saturday, May 17th -
No work activities due to removal and rerouting high voltage power line in Pond 6.

Sunday, May 18th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue Cat I excavation in Area 11 and placement of Cat I material in Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 and Bins Building to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

Entact's Corporate Health and Safety Coordinator was on-site Wednesday, May 14th to perform a site safety audit.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

The specification for the proposed double sided geocomposite was sent to Raba Kistner on May 1, 2008 for review and/or comments. As of Friday, May 16th, there has been no response from Raba Kistner regarding the material. Entact cannot issue a purchase order and lock in pricing for the material until Raba Kistner approves and signs off on the specification.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **5/18/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	5/12/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Tuesday	5/13/08	From Bins Building to Pond 6 and Pond 6 towards Area 11 - 0.50 DAY
Wednesday	5/14/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	5/15/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Friday	5/16/08	From Pond 6 towards Area 11 and Plant Areas - 0.25 DAY
Saturday	5/17/08	Did not work
Sunday	5/18/08	N/A

The above task is charged at a daily unit rate - TOTAL DAYS MAY **6.75 Days**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE May 19, 2008

Asarco, El Paso Smelter

AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	250	250	AREA 11
4/28/08	19	44	190	440	BIN 2
4/28/08	31	75	310	750	JLD Screened Pile
4/29/08	85	160	850	1,600	AREA 11
4/29/08	38	198	380	1,980	BIN 2
4/30/08	84	282	840	2,820	AREA 11
4/30/08	54	336	540	3,360	BIN 2
5/1/08	82	418	820	4,180	AREA 11
5/1/08	37	455	370	4,550	BIN 2
5/2/08	78	533	780	5,330	AREA 11
5/2/08	49	582	490	5,820	BIN 2
5/3/08	68	650	680	6,500	AREA 11
5/3/08	35	685	350	6,850	BIN 2
5/5/08	86	771	860	7,710	AREA 11
5/5/08	44	815	440	8,150	BIN 2
5/5/08	2	817	20	8,170	BIN 11
5/6/08	95	912	950	9,120	AREA 11
5/6/08	53	965	530	9,650	BIN 11
5/7/08	101	1,066	1,010	10,660	AREA 11
5/7/08	46	1,112	460	11,120	BIN 11
5/7/08	11	1,123	110	11,230	BIN 12
5/8/08	70	1,193	700	11,930	AREA 11
5/8/08	87	1,280	870	12,800	BIN 12
5/8/08	3	1,283	30	12,830	BIN 10
5/9/08	69	1,352	690	13,520	AREA 11
5/9/08	61	1,413	610	14,130	BIN 10
5/9/08	21	1,434	210	14,340	BIN 9
5/12/08	216	1,650	2,160	16,500	BIN 9
5/13/08	84	1,734	840	17,340	BIN 9
5/13/08	78	1,812	780	18,120	AREA 11
5/14/08	138	1,950	1,380	19,500	AREA 11
5/15/08	132	2,082	1,320	20,820	AREA 11
5/16/08	68	2,150	680	21,500	AREA 11

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	05-24-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 05/19/08 – 05/25/08
Weather:	Temp Average: 72 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, May 19th, 2008
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Tuesday, May 20th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Wednesday, May 21st -
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Severe wind gusts of approximately 45mph began around noon. Continued using water cannons in Pond 6 for dust control and utilized water truck in the Area 11 excavation area and haul roads.

Thursday, May 22nd –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Severe wind gusts of approximately 45mph began around noon. Continued using water cannons in Pond 6 for dust control and utilized water truck in the Area 11 excavation area and haul roads.

Friday, May 23rd –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges, and around the Pond 1 Bin area. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

At the end of the shift, the Area 11 equipment was brought over to the Plant side of the property and parked next to the first bridge.

Saturday, May 24th -
No work activities due to Memorial Weekend Break.

Sunday, May 25th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Memorial Weekend Break – crew will be back to work at the site on Wednesday, May 28th. Continue Cat I excavation in Area 11 and placement of Cat I material in Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Lloyd Evans - Operator	Humberto Valenzuela – Field Tech
Cory Isham - Operator	

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

1) The specification for the proposed double sided geocomposite was sent to Raba Kistner on May 1, 2008 for review and/or comments. On Tuesday, May 20th, Walter Boyle and Arturo Burgos of Asarco called Eduardo Choquis of Raba Kistner to determine the status of the approval/recommendation for the double sided geocomposite. **Mr. Choquis expressed concern regarding the 3:1 slopes and the length of the slopes for the Pond 6 cap.** Mr. Choquis requested CADD versions of the ENTACT Pond 6 Construction drawings and CADD as-built drawings of the Pond 6 cell. ENTACT emailed all the drawings to Mr. Choquis by Wednesday, May 21st.

In April of 2007 Raba Kistner, ASARCO, and Entact met to discuss the construction of Pond 6. ASARCO requested that in the planning of the cell, that the volume be maximized in the cell and to have stormwater runoff diverted towards the east pump station. Entact requested that a working anchor bench platform be built away from all the existing structures and pipes so that equipment and the lining crew could have access around the perimeter of the cell. **Raba Kistner began the draft design of Pond 6 in April of 2007, and by October of 2007 they had produced preliminary draft drawings. The Bottom slopes for the Pond were 3:1, and the top Cap slopes were also 3:1 slopes. The drawings were checked and approved by Mr. Choquis.** There were several issues related to the draft drawings produced by Raba Kistner – the stormwater runoff was not addressed properly, there was no working platform around the perimeter of the cell, the cap shape and features would be extremely difficult to construct, and the Top Soil Erosion Layer on top of the liner was 3.5' thick. In order to begin construction of Pond 6 ASARCO requested that ENTACT complete the construction drawings to address drainage concerns, accessibility around the perimeter of the cell for construction and maintenance purposes, and utilize a 2' soil cap instead of a 3.5' soil cap. **Entact did not change any of the slope angles in either the bottom of the cell or on the top cap as compared to the Raba Kistner drawings. If Raba Kistner had originally designed the top of the cell to have 3:1 slopes back in October of 2007, why is there now a concern?**

2) On Thursday, May 22nd, Mr. Choquis requested geotechnical testing on the various soil materials to perform the slope stability analyses which includes internal shear strength (including friction angle), atterberg limits, permeability, and gradation. The materials he requested are:
1) material below GCL
2) 1.5' Fine Grained Soil over drainage geocomposite
3) 6'' coarse grained on-site soil

On Friday May 23rd, a representative of Raba Kistner from the El Paso office picked up samples for the above referenced materials.

ENTACT is concerned that if Raba Kistner delays in getting testing performed or delays in making decisions on the cap and/or cap lining materials, that the project will need to be stopped. The Cat I waste in Pond 6 is already at the top of the cell, and with an average of

1000CY of waste placed per day, it will only take approximately 3 weeks until the final 2' Intermediate Cover will need to be placed in preparation for the cap liner.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **5/25/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	5/19/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Tuesday	5/20/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Wednesday	5/21/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	5/22/08	From Pond 6 towards Area 11 - 0.25 DAY
Friday	5/23/08	From Pond 6 towards Area 11 and Pond 1 Bin Area - 0.25 DAY
Saturday	5/24/08	Did not work
Sunday	5/25/08	N/A

The above task is charged at a daily unit rate - TOTAL DAYS MAY **8.75**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE May 23, 2008

Asarco, El Paso Smelter

AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	250	250	AREA 11
4/28/08	19	44	190	440	BIN 2
4/28/08	31	75	310	750	JLD Screened Pile
4/29/08	85	160	850	1,600	AREA 11
4/29/08	38	198	380	1,980	BIN 2
4/30/08	84	282	840	2,820	AREA 11
4/30/08	54	336	540	3,360	BIN 2
5/1/08	82	418	820	4,180	AREA 11
5/1/08	37	455	370	4,550	BIN 2
5/2/08	78	533	780	5,330	AREA 11
5/2/08	49	582	490	5,820	BIN 2
5/3/08	68	650	680	6,500	AREA 11
5/3/08	35	685	350	6,850	BIN 2
5/5/08	86	771	860	7,710	AREA 11
5/5/08	44	815	440	8,150	BIN 2
5/5/08	2	817	20	8,170	BIN 11
5/6/08	95	912	950	9,120	AREA 11
5/6/08	53	965	530	9,650	BIN 11
5/7/08	101	1,066	1,010	10,660	AREA 11
5/7/08	46	1,112	460	11,120	BIN 11
5/7/08	11	1,123	110	11,230	BIN 12
5/8/08	70	1,193	700	11,930	AREA 11
5/8/08	87	1,280	870	12,800	BIN 12
5/8/08	3	1,283	30	12,830	BIN 10
5/9/08	69	1,352	690	13,520	AREA 11
5/9/08	61	1,413	610	14,130	BIN 10
5/9/08	21	1,434	210	14,340	BIN 9
5/12/08	216	1,650	2,160	16,500	BIN 9
5/13/08	84	1,734	840	17,340	BIN 9
5/13/08	78	1,812	780	18,120	AREA 11
5/14/08	138	1,950	1,380	19,500	AREA 11
5/15/08	132	2,082	1,320	20,820	AREA 11
5/16/08	68	2,150	680	21,500	AREA 11
5/19/08	137	2,287	1,370	22,870	AREA 11
5/20/08	125	2,412	1,250	24,120	AREA 11
5/21/08	127	2,539	1,270	25,390	AREA 11
5/22/08	112	2,651	1,120	26,510	AREA 11
5/23/08	68	2,719	680	27,190	AREA 11

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	06-02-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 05/26/08 – 06/01/08
Weather:	Temp Average: 72 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, May 26th, 2008
Memorial Day Holiday

Tuesday, May 27th –
ENTACT crew mobilizing back to El Paso from Memorial Holiday weekend.

Wednesday, May 28th -
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Excavated investigation holes on the north side of Area 11 to try to determine vertical and lateral extent of Category I material. Based on the area and depth of Category I waste, there is approximately 25,000cy remaining to be excavated on the north side of Area 11.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5’ of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Thursday, May 29th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5’ of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Friday, May 30th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5' of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Saturday, May 31st -
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5' of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Sunday, June 1st –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue Cat I excavation in Area 11 and placement of Cat I material in Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

1) The specification for the proposed double sided geocomposite was sent to Raba Kistner on May 1, 2008 for review and/or comments. On Tuesday, May 20th, Walter Boyle and Arturo Burgos of Asarco called Eduardo Choquis of Raba Kistner to determine the status of the approval/recommendation for the double sided geocomposite. **Mr. Choquis expressed concern regarding the 3:1 slopes and the length of the slopes for the Pond 6 cap.** Mr. Choquis requested CADD versions of the ENTACT Pond 6 Construction drawings and CADD as-built drawings of the Pond 6 cell. ENTACT emailed all the drawings to Mr. Choquis by Wednesday, May 21st.

In April of 2007 Raba Kistner, ASARCO, and Entact met to discuss the construction of Pond 6. ASARCO requested that in the planning of the cell, that the volume be maximized in the cell and to have stormwater runoff diverted towards the east pump station. Entact requested that a working anchor bench platform be built away from all the existing structures and pipes so that equipment and the lining crew could have access around the perimeter of the cell. **Raba Kistner began the draft design of Pond 6 in April of 2007, and by October of 2007 they had produced preliminary draft drawings. The Bottom slopes for the Pond were 3:1, and the top Cap slopes were also 3:1 slopes. The drawings were checked and approved by Mr. Choquis.** There were several issues related to the draft drawings produced by Raba Kistner – the stormwater runoff was not addressed properly, there was no working platform around the perimeter of the cell, the cap shape and features would be extremely difficult to construct, and the Top Soil Erosion Layer on top of the liner was 3.5' thick. In order to begin construction of Pond 6 ASARCO requested that ENTACT complete the construction drawings to address drainage concerns, accessibility around the perimeter of the cell for construction and maintenance purposes, and utilize a 2' soil cap instead of a 3.5' soil cap. **Entact did not change any of the slope angles in either the bottom of the cell or on the top cap as compared to the Raba Kistner draft drawings.**

2) On Thursday, May 22nd, Mr. Choquis requested geotechnical testing on the various soil materials to perform the slope stability analyses which includes internal shear strength (including friction angle), atterberg limits, permeability, and gradation. The materials he requested are:
1) material below GCL
2) 1.5' Fine Grained Soil over drainage geocomposite
3) 6'' coarse grained on-site soil

On Friday May 23rd, a representative of Raba Kistner from the El Paso office picked up samples for the above referenced materials. **As of Monday, June 2nd, there has been no report of results and no progress in selecting the double sided geocomposite for the cap.**

ENTACT is concerned that if Raba Kistner delays in getting testing performed or delays in making decisions on the cap and/or cap lining materials, that the project will need to be stopped. The Cat I waste in Pond 6 is above the top of the cell, and with an average of 1000CY of waste placed per day, it will only take approximately 2 weeks until the final 2' Intermediate Cover will need to be placed in preparation for the cap liner.

7.0 RESOLUTION OF ISSUES OR CONCERNS

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **6/1/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	5/26/08	Memorial Holiday
Tuesday	5/27/08	Did not use
Wednesday	5/28/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	5/29/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Friday	5/30/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Saturday	5/31/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Sunday	6/1/08	N/A

The above task is charged at a daily unit rate - TOTAL DAYS MAY **10.75**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE June 2, 2008

Asarco, El Paso Smelter

AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	250	250	AREA 11
4/28/08	19	44	190	440	BIN 2
4/28/08	31	75	310	750	JLD Screened Pile
4/29/08	85	160	850	1,600	AREA 11
4/29/08	38	198	380	1,980	BIN 2
4/30/08	84	282	840	2,820	AREA 11
4/30/08	54	336	540	3,360	BIN 2
5/1/08	82	418	820	4,180	AREA 11
5/1/08	37	455	370	4,550	BIN 2
5/2/08	78	533	780	5,330	AREA 11
5/2/08	49	582	490	5,820	BIN 2
5/3/08	68	650	680	6,500	AREA 11
5/3/08	35	685	350	6,850	BIN 2
5/5/08	86	771	860	7,710	AREA 11
5/5/08	44	815	440	8,150	BIN 2
5/5/08	2	817	20	8,170	BIN 11
5/6/08	95	912	950	9,120	AREA 11
5/6/08	53	965	530	9,650	BIN 11
5/7/08	101	1,066	1,010	10,660	AREA 11
5/7/08	46	1,112	460	11,120	BIN 11
5/7/08	11	1,123	110	11,230	BIN 12
5/8/08	70	1,193	700	11,930	AREA 11
5/8/08	87	1,280	870	12,800	BIN 12
5/8/08	3	1,283	30	12,830	BIN 10
5/9/08	69	1,352	690	13,520	AREA 11
5/9/08	61	1,413	610	14,130	BIN 10
5/9/08	21	1,434	210	14,340	BIN 9
5/12/08	216	1,650	2,160	16,500	BIN 9
5/13/08	84	1,734	840	17,340	BIN 9
5/13/08	78	1,812	780	18,120	AREA 11
5/14/08	138	1,950	1,380	19,500	AREA 11
5/15/08	132	2,082	1,320	20,820	AREA 11
5/16/08	68	2,150	680	21,500	AREA 11
5/19/08	137	2,287	1,370	22,870	AREA 11
5/20/08	125	2,412	1,250	24,120	AREA 11
5/21/08	127	2,539	1,270	25,390	AREA 11
5/22/08	112	2,651	1,120	26,510	AREA 11
5/23/08	68	2,719	680	27,190	AREA 11
5/28/08	125	2,844	1,250	28,440	AREA 11
5/29/08	139	2,983	1,390	29,830	AREA 11
5/30/08	133	3,116	1,330	31,160	AREA 11
5/31/08	103	3,219	1,030	32,190	AREA 11

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	06-09-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 06/02/08 – 06/08/08
Weather:	Temp Average: 84 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, June 2nd, 2008
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5’ of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Tuesday, June 3rd –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5’ of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Wednesday, June 4th -
Severe wind warning throughout the day – gusts 35-40mph.

Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5' of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water truck was used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Thursday, June 5th –
Severe wind warning throughout the day – gusts 40-48mph. Mobilized an additional water truck to keep up with dust control in the work areas.

Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5' of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Friday, June 6th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5' of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Saturday, June 7th -
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Excavating and stockpiling clean clay material in Area 11 to be eventually used for the initial 1.5' of Soil Erosion Cover for the cap of Pond 6.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Sunday, June 8th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue Cat I excavation in Area 11 and placement of Cat I material in Pond 6. Grading of slopes in preparation for placement of the 2' Intermediate Layer.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Review of on-going issues regarding the completion of the Pond 6 Cap:

On Tuesday, March 11, 2008 Raba Kistner (Eduardo Choquis & Bernardino Olague) met with Asarco (Arturo Burgos, Walter Boyle), and Entact (Kirk Gates) regarding Raba Kistner's recommendation of using a double sided geocomposite liner on the top cap due to the angle of the cap slopes (varies from 3.5:1 to 3:1), instead of the single sided gecomposite called for in the contract specifications written by Arcadis. Raba Kistner stated that they will complete their recommendations and write a specification for the double sided geocomposite and supply the information to Asarco. On March 18, 2008, Raba Kistner again met with Asarco and Entact and Eduardo Choquis confirmed that "the final cover materials were correctly changed from unreinforced GCL to reinforced GCL, and from smooth LLDPE geomembrane to textured LLDPE" however, Eduardo Choquis went on to state that "only double-sided geocomposite will be required for the Asarco Pond 6 Waste Repository final cover as currently designed." By the end of April, no specification or requirements for the double sided geocomposite had been delivered to Asarco or Entact. Entact sent Raba Kistner on May 1st a set of specifications for a double sided geocomposite that both the manufacturer and installer proposed to use for the top cap. As of June 2nd, there has been no response from Raba Kistner for the approval of the double sided geocomposite material. Resin prices for the manufacture of this material have risen dramatically over the past 2 months for this material.

As of Monday, June 2nd, there has been no report from Raba Kistner regarding the results of the friction angle testing on the cap and liner materials and no determination in selecting the double sided geocomposite for the cap.

On Tuesday, June 3rd, Kirk Gates (Entact) met with Tom Klempel, Arturo Burgos, and Walter Boyle regarding the issue of possible delays caused by Raba Kistner's slow response time in the evaluation of the cap materials and the issue that the specifications for the double sided geocomposite drainage net had not yet been approved. Tom Klempel and Arturo Burgos called Eduardo Choquis (Raba Kistner) regarding the status of the evaluation of the cap and top liner materials. Mr. Choquis stated that he had all the information he needed to complete his evaluation of the cap and liner material. He also stated that all the testing results on the cap materials that were picked up on May 23rd, should have been completed by now and he would be checking with the laboratory tomorrow (June 4th). He went on to say that he would complete his evaluation by next week, and give his recommendations to ASARCO by the end of the week.

To prevent work stoppage due to the delay in Raba Kistner's recommendations regarding cap slopes and approval of the double sided geocomposite, ENTACT will need to begin shaping the slopes of the cell by the week of June 16th in preparation for placing the final 2' Intermediate Layer, and will need to order the double sided geocomposite by the week of June 16th to allow the manufacturer lead time for manufacture/delivery of the material. If the timeline for these two events cannot be met, then ENTACT anticipates that work stoppage will occur the week of June 23rd due to the lack of required information from Raba Kistner to continue the completion of the cap on Pond 6.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **6/8/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	6/2/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Tuesday	6/3/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Wednesday	6/4/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	6/5/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Friday	6/6/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Saturday	6/7/08	From Pond 6 towards Area 11 and Plant Areas - 0.25 DAY
Sunday	6/8/08	N/A

The above task is charged at a daily unit rate - TOTAL DAYS JUNE **2.75**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE June 9, 2008

Asarco, El Paso Smelter
AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	250	250	AREA 11
4/28/08	19	44	190	440	BIN 2
4/28/08	31	75	310	750	JLD Screened Pile
4/29/08	85	160	850	1,600	AREA 11
4/29/08	38	198	380	1,980	BIN 2
4/30/08	84	282	840	2,820	AREA 11
4/30/08	54	336	540	3,360	BIN 2
5/1/08	82	418	820	4,180	AREA 11
5/1/08	37	455	370	4,550	BIN 2
5/2/08	78	533	780	5,330	AREA 11
5/2/08	49	582	490	5,820	BIN 2
5/3/08	68	650	680	6,500	AREA 11
5/3/08	35	685	350	6,850	BIN 2
5/5/08	86	771	860	7,710	AREA 11
5/5/08	44	815	440	8,150	BIN 2
5/5/08	2	817	20	8,170	BIN 11
5/6/08	95	912	950	9,120	AREA 11
5/6/08	53	965	530	9,650	BIN 11
5/7/08	101	1,066	1,010	10,660	AREA 11
5/7/08	46	1,112	460	11,120	BIN 11
5/7/08	11	1,123	110	11,230	BIN 12
5/8/08	70	1,193	700	11,930	AREA 11
5/8/08	87	1,280	870	12,800	BIN 12
5/8/08	3	1,283	30	12,830	BIN 10
5/9/08	69	1,352	690	13,520	AREA 11
5/9/08	61	1,413	610	14,130	BIN 10
5/9/08	21	1,434	210	14,340	BIN 9
5/12/08	216	1,650	2,160	16,500	BIN 9
5/13/08	84	1,734	840	17,340	BIN 9
5/13/08	78	1,812	780	18,120	AREA 11
5/14/08	138	1,950	1,380	19,500	AREA 11
5/15/08	132	2,082	1,320	20,820	AREA 11
5/16/08	68	2,150	680	21,500	AREA 11
5/19/08	137	2,287	1,370	22,870	AREA 11
5/20/08	125	2,412	1,250	24,120	AREA 11
5/21/08	127	2,539	1,270	25,390	AREA 11
5/22/08	112	2,651	1,120	26,510	AREA 11
5/23/08	68	2,719	680	27,190	AREA 11
5/28/08	125	2,844	1,250	28,440	AREA 11
5/29/08	139	2,983	1,390	29,830	AREA 11
5/30/08	133	3,116	1,330	31,160	AREA 11
5/31/08	103	3,219	1,030	32,190	AREA 11
6/2/08	130	3,349	1,300	33,490	AREA 11
6/3/08	122	3,471	1,220	34,710	AREA 11
6/4/08	113	3,584	1,130	35,840	AREA 11
6/5/08	120	3,704	1,200	37,040	AREA 11
6/6/08	130	3,834	1,300	38,340	AREA 11
6/7/08	76	3,910	760	39,100	AREA 11

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	06-16-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 06/09/08 – 06/15/08
Weather:	Temp Average: 88 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, June 9th, 2008
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Pressure washed the Cat 928 Loader and called off rent.

Tuesday, June 10th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Wednesday, June 11th -
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Thursday, June 12th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Friday, June 13th –
No Work Activities – Crew Rotation

Saturday, June 14th -
No Work Activities – Crew Rotation

Sunday, June 15th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue Cat I excavation in Area 11 and placement of Cat I material in Pond 6. Grading of slopes in preparation for placement of the 2' Intermediate Layer.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

At 10:00am, Thursday June 12th, the local Raba Kistner office called Kirk Gates of Entact and requested a sample of the Category I Waste in Pond 6. At approximately 11:00am, the samples were picked up by Raba Kistner personnel. Raba Kistner's evaluation of the Pond 6 cap

materials and selection of the double sided geocomposite material was due by June 13, 2008. As of Friday, June 13, 2008, there has been no response.

To prevent work stoppage due to the delay in Raba Kistner's recommendations regarding cap slopes and approval of the double sided geocomposite, ENTACT will need to begin shaping the slopes of the cell by the week of June 16th in preparation for placing the final 2' Intermediate Layer, and will need to order the double sided geocomposite by the week of June 16th to allow the manufacturer lead time for manufacture/delivery of the material. If the timeline for these two events cannot be met, then **ENTACT anticipates that work stoppage will occur the week of June 23rd due to the lack of required information from Raba Kistner to continue the completion of the cap on Pond 6.**

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **6/15/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	6/9/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Tuesday	6/10/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Wednesday	6/11/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	6/12/08	From Pond 6 towards Area 11 and Plant Areas - 0.25 DAY
Friday	6/13/08	N/A - No work activities
Saturday	6/14/08	N/A - No work activities
Sunday	6/15/08	N/A - No work activities

The above task is charged at a daily unit rate - TOTAL DAYS JUNE **4.5**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE June 16, 2008

Asarco, El Paso Smelter
AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	250	250	AREA 11
4/28/08	19	44	190	440	BIN 2
4/28/08	31	75	310	750	JLD Screened Pile
4/29/08	85	160	850	1,600	AREA 11
4/29/08	38	198	380	1,980	BIN 2
4/30/08	84	282	840	2,820	AREA 11
4/30/08	54	336	540	3,360	BIN 2
5/1/08	82	418	820	4,180	AREA 11
5/1/08	37	455	370	4,550	BIN 2
5/2/08	78	533	780	5,330	AREA 11
5/2/08	49	582	490	5,820	BIN 2
5/3/08	68	650	680	6,500	AREA 11
5/3/08	35	685	350	6,850	BIN 2
5/5/08	86	771	860	7,710	AREA 11
5/5/08	44	815	440	8,150	BIN 2
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5/7/08	101	1,066	1,010	10,660	AREA 11
5/7/08	46	1,112	460	11,120	BIN 11
5/7/08	11	1,123	110	11,230	BIN 12
5/8/08	70	1,193	700	11,930	AREA 11
5/8/08	87	1,280	870	12,800	BIN 12
5/8/08	3	1,283	30	12,830	BIN 10
5/9/08	69	1,352	690	13,520	AREA 11
5/9/08	61	1,413	610	14,130	BIN 10
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5/12/08	216	1,650	2,160	16,500	BIN 9
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5/16/08	68	2,150	680	21,500	AREA 11
5/19/08	137	2,287	1,370	22,870	AREA 11
5/20/08	125	2,412	1,250	24,120	AREA 11
5/21/08	127	2,539	1,270	25,390	AREA 11
5/22/08	112	2,651	1,120	26,510	AREA 11
5/23/08	68	2,719	680	27,190	AREA 11
5/28/08	125	2,844	1,250	28,440	AREA 11
5/29/08	139	2,983	1,390	29,830	AREA 11
5/30/08	133	3,116	1,330	31,160	AREA 11
5/31/08	103	3,219	1,030	32,190	AREA 11
6/2/08	130	3,349	1,300	33,490	AREA 11
6/3/08	122	3,471	1,220	34,710	AREA 11
6/4/08	113	3,584	1,130	35,840	AREA 11
6/5/08	120	3,704	1,200	37,040	AREA 11
6/6/08	130	3,834	1,300	38,340	AREA 11
6/7/08	76	3,910	760	39,100	AREA 11
6/9/08	133	4,043	1,330	40,430	AREA 11
6/10/08	119	4,162	1,190	41,620	AREA 11
6/11/08	104	4,266	1,040	42,660	AREA 11
6/12/08	74	4,340	740	43,400	AREA 11

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	06-23-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 06/16/08 – 06/22/08
Weather:	Temp Average: 90 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, June 16th, 2008
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Tuesday, June 17th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Wednesday, June 18th -
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

Began hauling Category I material from Area 11 to the screening unit and began screening material for the 2’ Intermediate Layer. The screened material was hauled to the Bins Building and placed in Bin 7.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Thursday, June 19th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

Continued hauling Category I material from Area 11 to the screening unit and continued screening material for the 2' Intermediate Layer. The screened material was hauled to the Bins Building and placed in Bin 7. The oversize Category I material from the screening operation was loaded and hauled back to Area 11 and was placed in the Category I area south of the haul road.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Friday, June 20th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Performing grading and drainage work in the clean portions of Area 11.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Saturday, June 21st -
No Work Activities.

Sunday, June 22nd –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Screening of Category I material for the 2' Intermediate Layer. Final grading of slopes in preparation for placement of the 2' Intermediate Layer.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 to Pond 6 and Screener.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

ENTACT anticipates that work stoppage will occur the week of June 23rd due to the lack of required information from Raba Kistner to continue the completion of the cap on Pond 6. As of Friday, June 20th, Raba Kistner did not complete their evaluation.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **6/22/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	6/16/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Tuesday	6/17/08	From Pond 6 towards Area 11 and Plant Areas - 0.25 DAY
Wednesday	6/18/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	6/19/08	From Pond 6 towards Area 11 and Plant Areas - 0.25 DAY
Friday	6/20/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Saturday	6/21/08	N/A - No work activities
Sunday	6/22/08	N/A - No work activities

The above task is charged at a daily unit rate - TOTAL DAYS JUNE **6.5**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE June 23, 2008

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **6/22/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	6/16/08	NO	
Tuesday	6/17/08	NO	
Wednesday	6/18/08	YES	Cat I - From Area 11
Thursday	6/19/08	YES	Cat I - From Area 11
Friday	6/20/08	NO	
Saturday	6/21/08	NO	
Sunday	6/22/08	NO	
	TOTAL SCREENING DAYS JUNE	**2**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Keith Gates

DATE June 23, 2008

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN
3/17/08	49	191	490	1,910.0	BIN 2 TO SCREEN
3/17/08	32	223	320	2,230.0	AREA 11 TO SCREEN
3/18/08	22	245	220	2,450.0	BIN 2 TO SCREEN
3/18/08	55	300	550	3,000.0	AREA 11 TO SCREEN
3/18/08	2	302	20	3,020.0	BIN 4 TO SCREEN
3/19/08	18	320	180	3,200.0	BIN 4 TO SCREEN
3/19/08	61	381	610	3,810.0	AREA 11 TO SCREEN
3/20/08	44	425	440	4,250.0	BIN 4 TO SCREEN
3/20/08	39	464	390	4,640.0	AREA 11 TO SCREEN
3/21/08	50	514	500	5,140.0	BIN 4 TO SCREEN
3/21/08	39	553	390	5,530.0	AREA 11 TO SCREEN
3/24/08	69	622	690	6,220.0	AREA 11 TO SCREEN
3/25/08	54	676	540	6,760.0	AREA 11 TO SCREEN
3/26/08	58	734	580	7,340.0	AREA 11 TO SCREEN
3/27/08	40	774	400	7,740.0	AREA 11 TO SCREEN
3/27/08	40	814	400	8,140.0	BIN 4 TO SCREEN
3/28/08	39	853	390	8,530.0	AREA 11 TO SCREEN
3/28/08	55	908	550	9,080.0	BIN 4 TO SCREEN
3/29/08	30	938	300	9,380.0	AREA 11 TO SCREEN
3/29/08	12	950	120	9,500.0	BIN 4 TO SCREEN
3/31/08	38	988	380	9,880.0	AREA 11 TO SCREEN
3/31/08	46	1034	460	10,340.0	BIN 4 TO SCREEN
4/1/08	47	1081	470	10,810.0	AREA 11 TO SCREEN
4/1/08	48	1129	480	11,290.0	BIN 4 TO SCREEN
4/2/08	49	1178	490	11,780.0	AREA 11 TO SCREEN
4/3/08	50	1228	500	12,280.0	AREA 11 TO SCREEN
4/3/08	51	1279	510	12,790.0	BIN 4 TO SCREEN
4/4/08	52	1331	520	13,310.0	AREA 11 TO SCREEN
4/4/08	53	1384	530	13,840.0	BIN 4 TO SCREEN
4/4/08	54	1438	540	14,380.0	BIN 11 TO SCREEN
4/7/08	32	1470	320	14,700.0	BIN 11 TO SCREEN
4/8/08	42	1512	420	15,120.0	BIN 11 TO SCREEN
4/9/08	36	1548	360	15,480.0	BIN 11 TO SCREEN
4/10/08	33	1581	330	15,810.0	BIN 11 TO SCREEN
4/11/08	29	1610	290	16,100.0	BIN 11 TO SCREEN
4/14/08	25	1635	250	16,350.0	BIN 11 TO SCREEN
4/15/08	26	1661	260	16,610.0	BIN 11 TO SCREEN
4/16/08	42	1703	420	17,030.0	BIN 11 TO SCREEN
6/18/08	14	1717	140	17,170.0	AREA 11 TO SCREEN
6/19/08	44	1761	440	17,610.0	AREA 11 TO SCREEN

* 2.5CY Bucket on Excavator - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 17,610.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8
3/17/08	46	132	460	1,320.0	BIN 8
3/18/08	52	184	520	1,840.0	BIN 8
3/19/08	48	232	480	2,320.0	BIN 8
3/20/08	61	293	610	2,930.0	BIN 8
3/21/08	33	326	330	3,260.0	BIN 8
3/21/08	31	357	310	3,570.0	BIN 7
3/24/08	26	383	260	3,830.0	BIN 7
3/24/08	24	407	240	4,070.0	BIN 8
3/25/08	25	432	250	4,320.0	BIN 7
3/25/08	14	446	140	4,460.0	BIN 8
3/26/08	35	481	350	4,810.0	BIN 7
3/26/08	7	488	70	4,880.0	BIN 8
3/27/08	49	537	490	5,370.0	BIN 7
3/27/08	8	545	80	5,450.0	BIN 8
3/28/08	58	603	580	6,030.0	BIN 7
3/29/08	35	638	350	6,380.0	BIN 7
3/31/08	50	688	500	6,880.0	BIN 7
3/31/08	1	689	10	6,890.0	BIN 5
4/1/08	27	716	270	7,160.0	BIN 7
4/1/08	36	752	360	7,520.0	BIN 5
4/2/08	45	797	450	7,970.0	BIN 5
4/3/08	36	833	360	8,330.0	BIN 5
4/4/08	45	878	450	8,780.0	BIN 5
4/7/08	24	902	240	9,020.0	BIN 5
4/8/08	27	929	270	9,290.0	BIN 5
4/9/08	23	952	230	9,520.0	BIN 5
4/10/08	24	976	240	9,760.0	BIN 5
4/11/08	21	997	210	9,970.0	BIN 5
4/14/08	15	1012	150	10,120.0	BIN 5
4/15/08	12	1024	120	10,240.0	BIN 5
4/16/08	20	1044	200	10,440.0	BIN 5
6/18/08	1	1045	10	10,450.0	BIN 7
6/19/08	20	1065	200	10,650.0	BIN 7

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 10,650.0

Asarco, El Paso Smelter
AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	250	250	AREA 11
4/28/08	19	44	190	440	BIN 2
4/28/08	31	75	310	750	JLD Screened Pile
4/29/08	85	160	850	1,600	AREA 11
4/29/08	38	198	380	1,980	BIN 2
4/30/08	84	282	840	2,820	AREA 11
4/30/08	54	336	540	3,360	BIN 2
5/1/08	82	418	820	4,180	AREA 11
5/1/08	37	455	370	4,550	BIN 2
5/2/08	78	533	780	5,330	AREA 11
5/2/08	49	582	490	5,820	BIN 2
5/3/08	68	650	680	6,500	AREA 11
5/3/08	35	685	350	6,850	BIN 2
5/5/08	86	771	860	7,710	AREA 11
5/5/08	44	815	440	8,150	BIN 2
5/5/08	2	817	20	8,170	BIN 11
5/6/08	95	912	950	9,120	AREA 11
5/6/08	53	965	530	9,650	BIN 11
5/7/08	101	1,066	1,010	10,660	AREA 11
5/7/08	46	1,112	460	11,120	BIN 11
5/7/08	11	1,123	110	11,230	BIN 12
5/8/08	70	1,193	700	11,930	AREA 11
5/8/08	87	1,280	870	12,800	BIN 12
5/8/08	3	1,283	30	12,830	BIN 10
5/9/08	69	1,352	690	13,520	AREA 11
5/9/08	61	1,413	610	14,130	BIN 10
5/9/08	21	1,434	210	14,340	BIN 9
5/12/08	216	1,650	2,160	16,500	BIN 9
5/13/08	84	1,734	840	17,340	BIN 9
5/13/08	78	1,812	780	18,120	AREA 11
5/14/08	138	1,950	1,380	19,500	AREA 11
5/15/08	132	2,082	1,320	20,820	AREA 11
5/16/08	68	2,150	680	21,500	AREA 11
5/19/08	137	2,287	1,370	22,870	AREA 11
5/20/08	125	2,412	1,250	24,120	AREA 11
5/21/08	127	2,539	1,270	25,390	AREA 11
5/22/08	112	2,651	1,120	26,510	AREA 11
5/23/08	68	2,719	680	27,190	AREA 11
5/28/08	125	2,844	1,250	28,440	AREA 11
5/29/08	139	2,983	1,390	29,830	AREA 11
5/30/08	133	3,116	1,330	31,160	AREA 11
5/31/08	103	3,219	1,030	32,190	AREA 11
6/2/08	130	3,349	1,300	33,490	AREA 11
6/3/08	122	3,471	1,220	34,710	AREA 11
6/4/08	113	3,584	1,130	35,840	AREA 11
6/5/08	120	3,704	1,200	37,040	AREA 11
6/6/08	130	3,834	1,300	38,340	AREA 11
6/7/08	76	3,910	760	39,100	AREA 11
6/9/08	133	4,043	1,330	40,430	AREA 11
6/10/08	119	4,162	1,190	41,620	AREA 11
6/11/08	104	4,266	1,040	42,660	AREA 11
6/12/08	74	4,340	740	43,400	AREA 11
6/16/08	113	4,453	1,130	44,530	AREA 11
6/17/08	128	4,581	1,280	45,810	AREA 11
6/18/08	100	4,681	1,000	46,810	AREA 11
6/19/08	44	4,725	440	47,250	AREA 11
6/20/08	78	4,803	780	48,030	AREA 11

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	06-30-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 06/23/08 – 06/29/08
Weather:	Temp Average: 90 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, June 23rd, 2008
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

Resumed hauling excavated Category I material from Area 11 to the Screener unit for production of the 2’ Intermediate Layer material. The screened material was loaded and hauled from the screener building to Bin #7 in the Bins Building. The oversize Category I material was loaded and hauled from the screener building, back to Area 11 to the south side impacted excavation area. The Cat I oversize material and debris is not suitable for the final grading of the Cat I waste in Pond 6.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Tuesday, June 24th –
Continued excavating Category I material in Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Wednesday, June 25th -
Began excavating Category I material from the south side investigation area of Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Resumed grading work on the clean Area 11 slopes.

Continued hauling excavated Category I material from the south side Area 11 to the Screener unit for production of the 2' Intermediate Layer material. The screened material was loaded and hauled from the screener building to Bin #7 in the Bins Building. The oversize Category I material was loaded and hauled from the screener building, back to Area 11 to the south side impacted excavation area.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Thursday, June 26th –
Continued excavating Category I material from the south side investigation area of Area 11 and hauled to Pond 6. The sheepsfoot roller was used in Pond 6 to compact the lifts of Cat I material. Continued concrete debris removal from the Area 11 excavation and stockpiling concrete in staging area west of the excavation. Continued grading work on the clean Area 11 slopes.

Continued hauling excavated Category I material from the south side Area 11 to the Screener unit for production of the 2' Intermediate Layer material. The screened material was loaded and hauled from the screener building to Bin #7 in the Bins Building. The oversize Category I material was loaded and hauled from the screener building, back to Area 11 to the south side impacted excavation area.

The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Friday, June 27th –
Continued excavating Category I material from the south side investigation area of Area 11 to the Screener unit for production of the 2' Intermediate Layer material. The screened material was loaded and hauled from the screener building to Bin #7 in the Bins Building. The oversize Category I material was loaded and hauled from the screener building, back to Area 11 to the south side impacted excavation area.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Saturday, June 28th -
No Work Activities.

Sunday, June 29th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Begin placement of the 2' Intermediate Layer.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled Cat I material from Area 11 to Pond 6 and Screener.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

On Tuesday, June 24th, Kirk Gates (Entact) met with Tom Klempel and Arturo Burgos of Asarco. Tom Klempel informed Entact that he had spoken with Eduardo Choquis of Raba Kistner regarding Mr. Choquis' evaluation of the cap materials and review of the double sided geocomposite. Mr. Klempel stated that Eduardo had given a verbal approval for the 8oz. double sided geocomposite and that the 2' Intermediate Layer and Fine Grained Soil Layer materials met the internal friction angle requirements.

In review - Mr. Choquis stated during a meeting on 3/11/08 that he would write the specification for the double sided geocomposite and on 3/18/08 Mr. Choquis was given written approval by Asarco to proceed with completing the construction specifications for the design of the Pond 6 cap. By the end of April, Entact did not receive any information from Mr. Choquis regarding specifications or his recommendation for the double sided geocomposite material, therefore Entact forwarded Mr. Choquis the manufacturers specification for the 8oz. doubled sided geocomposite on 5/1/08. Mr. Choquis took approximately 7 weeks to give his verbal approval for the material.

On Wednesday morning, June 25th, Entact formally submitted the 8oz. double sided geocomposite transmittal to Mr. Choquis. Late that same afternoon, Mr. Choquis returned the signed approval page with the comment "Drainage geocomposite must undergo conformance testing for interface testing with 40-mil LLDPE geomembrane and 1.5' Fine Grained Soil". "Required minimum interface friction angle: 26.5 – DO NOT use prior to testing".

Thursday, June 26th Conference Call regarding Mr. Choquis' conditional approval of the double sided geocomposite: Phone call attendees – Tom Klempel, Arturo Burgos, Kirk Gates, Eduardo Choquis. Mr. Choquis informed Asarco that he needed to perform conformance interface testing on all cap interfaces, which includes:

1. 2' Intermediate Cat I Screened Layer / GCL Interface
2. GCL / 40mil LLDPE Interface
3. 40mil LLDPE / Double Sided Geocomposite Interface
4. Double Sided Geocomposite / 1.5' Fine Grained Soil Interface

Raba Kistner will notify the testing laboratory and will pick up samples of the 40mil LLDPE, 2' Intermediate Layer, and 1.5' Fine Grained Soil materials at the El Paso site. The GCL and Double Sided Geocomposite manufacturers will need to coordinate the production of the material and sampling with the testing laboratory. Mr. Choquis forwarded to Entact the

laboratory contact information. Raba Kistner arrived at the site at approximately 3:00pm and collected the 40mil LLDPE samples and samples of the two soil materials.

Entact notified Asarco that due to Raba Kistner's delay in performing these tests, Entact now anticipates work stoppage the week of July 7th. Had Raba Kistner finalized the cap design, specifications, and recommendation for the double sided geocomposite in March as they had stated, the conformance testing and interface testing could have been performed in May and would have been completed prior to the end of June. Because the delay in Raba Kistner's approval of the double sided geocomposite material, interface testing results will not be available most likely until late July. Entact anticipates that the 2' Intermediate Layer will be completed by the week of July 7th and the Pond 6 cap should be ready for liner installation during the week of July 14th.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **6/29/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	6/23/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Tuesday	6/24/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Wednesday	6/25/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	6/26/08	Did Not Use
Friday	6/27/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Saturday	6/28/08	N/A - No work activities
Sunday	6/29/08	N/A - No work activities

The above task is charged at a daily unit rate - TOTAL DAYS JUNE **8.5**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE June 30, 2008

ASARCO EL PASO
WEEKLY SCREENING REPORT

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **6/29/2008**

Soil Screening

Day of Week	Date	Daily Task Performed YES/NO	Material Screened
Monday	6/23/08	YES	Cat I - From Area 11
Tuesday	6/24/08	NO	
Wednesday	6/25/08	YES	Cat I - From Area 11
Thursday	6/26/08	YES	Cat I - From Area 11
Friday	6/27/08	YES	Cat I - From Area 11
Saturday	6/28/08	NO	
Sunday	6/29/08	NO	
	TOTAL SCREENING DAYS JUNE	**6**	

The above task is charged at a daily unit rate

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE June 30, 2008

Asarco, El Paso Smelter
AREA 11 EXCAVATION CAT I MATERIAL/TRANSPORT/PLACE POND 6

Daily Truck Count - Line Item D.2 - Excavate Cat I Material from Designated Areas, Transport, Place in Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	DESIGNATED AREA
4/28/08	25	25	250	250	AREA 11
4/28/08	19	44	190	440	BIN 2
4/28/08	31	75	310	750	JLD Screened Pile
4/29/08	85	160	850	1,600	AREA 11
4/29/08	38	198	380	1,980	BIN 2
4/30/08	84	282	840	2,820	AREA 11
4/30/08	54	336	540	3,360	BIN 2
5/1/08	82	418	820	4,180	AREA 11
5/1/08	37	455	370	4,550	BIN 2
5/2/08	78	533	780	5,330	AREA 11
5/2/08	49	582	490	5,820	BIN 2
5/3/08	68	650	680	6,500	AREA 11
5/3/08	35	685	350	6,850	BIN 2
5/5/08	86	771	860	7,710	AREA 11
5/5/08	44	815	440	8,150	BIN 2
5/5/08	2	817	20	8,170	BIN 11
5/6/08	95	912	950	9,120	AREA 11
5/6/08	53	965	530	9,650	BIN 11
5/7/08	101	1,066	1,010	10,660	AREA 11
5/7/08	46	1,112	460	11,120	BIN 11
5/7/08	11	1,123	110	11,230	BIN 12
5/8/08	70	1,193	700	11,930	AREA 11
5/8/08	87	1,280	870	12,800	BIN 12
5/8/08	3	1,283	30	12,830	BIN 10
5/9/08	69	1,352	690	13,520	AREA 11
5/9/08	61	1,413	610	14,130	BIN 10
5/9/08	21	1,434	210	14,340	BIN 9
5/12/08	216	1,650	2,160	16,500	BIN 9
5/13/08	84	1,734	840	17,340	BIN 9
5/13/08	78	1,812	780	18,120	AREA 11
5/14/08	138	1,950	1,380	19,500	AREA 11
5/15/08	132	2,082	1,320	20,820	AREA 11
5/16/08	68	2,150	680	21,500	AREA 11
5/19/08	137	2,287	1,370	22,870	AREA 11
5/20/08	125	2,412	1,250	24,120	AREA 11
5/21/08	127	2,539	1,270	25,390	AREA 11
5/22/08	112	2,651	1,120	26,510	AREA 11
5/23/08	68	2,719	680	27,190	AREA 11
5/28/08	125	2,844	1,250	28,440	AREA 11
5/29/08	139	2,983	1,390	29,830	AREA 11
5/30/08	133	3,116	1,330	31,160	AREA 11
5/31/08	103	3,219	1,030	32,190	AREA 11
6/2/08	130	3,349	1,300	33,490	AREA 11
6/3/08	122	3,471	1,220	34,710	AREA 11
6/4/08	113	3,584	1,130	35,840	AREA 11
6/5/08	120	3,704	1,200	37,040	AREA 11
6/6/08	130	3,834	1,300	38,340	AREA 11
6/7/08	76	3,910	760	39,100	AREA 11
6/9/08	133	4,043	1,330	40,430	AREA 11
6/10/08	119	4,162	1,190	41,620	AREA 11
6/11/08	104	4,266	1,040	42,660	AREA 11
6/12/08	74	4,340	740	43,400	AREA 11
6/16/08	113	4,453	1,130	44,530	AREA 11
6/17/08	128	4,581	1,280	45,810	AREA 11
6/18/08	100	4,681	1,000	46,810	AREA 11
6/19/08	44	4,725	440	47,250	AREA 11
6/20/08	78	4,803	780	48,030	AREA 11
6/23/08	67	4,870	670	48,700	AREA 11
6/24/08	112	4,982	1,120	49,820	AREA 11
6/25/08	23	5,005	230	50,050	AREA 11
6/26/08	18	5,023	180	50,230	AREA 11

* 2.5CY Bucket on Loader/Excavator - 4 buckets per Truck Load = 10CY per Truck

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item C.6 - Excavate, Cat I From Area 11/Bins, Load and Transport to Screen

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	CAT I FROM AREA 11/BINS TO SCREEN
3/12/08	41	41	410	410.0	BIN 2 TO SCREEN
3/13/08	30	71	300	710.0	BIN 2 TO SCREEN
3/14/08	33	104	330	1,040.0	BIN 2 TO SCREEN
3/15/08	38	142	380	1,420.0	BIN 2 TO SCREEN
3/17/08	49	191	490	1,910.0	BIN 2 TO SCREEN
3/17/08	32	223	320	2,230.0	AREA 11 TO SCREEN
3/18/08	22	245	220	2,450.0	BIN 2 TO SCREEN
3/18/08	55	300	550	3,000.0	AREA 11 TO SCREEN
3/18/08	2	302	20	3,020.0	BIN 4 TO SCREEN
3/19/08	18	320	180	3,200.0	BIN 4 TO SCREEN
3/19/08	61	381	610	3,810.0	AREA 11 TO SCREEN
3/20/08	44	425	440	4,250.0	BIN 4 TO SCREEN
3/20/08	39	464	390	4,640.0	AREA 11 TO SCREEN
3/21/08	50	514	500	5,140.0	BIN 4 TO SCREEN
3/21/08	39	553	390	5,530.0	AREA 11 TO SCREEN
3/24/08	69	622	690	6,220.0	AREA 11 TO SCREEN
3/25/08	54	676	540	6,760.0	AREA 11 TO SCREEN
3/26/08	58	734	580	7,340.0	AREA 11 TO SCREEN
3/27/08	40	774	400	7,740.0	AREA 11 TO SCREEN
3/27/08	40	814	400	8,140.0	BIN 4 TO SCREEN
3/28/08	39	853	390	8,530.0	AREA 11 TO SCREEN
3/28/08	55	908	550	9,080.0	BIN 4 TO SCREEN
3/29/08	30	938	300	9,380.0	AREA 11 TO SCREEN
3/29/08	12	950	120	9,500.0	BIN 4 TO SCREEN
3/31/08	38	988	380	9,880.0	AREA 11 TO SCREEN
3/31/08	46	1034	460	10,340.0	BIN 4 TO SCREEN
4/1/08	47	1081	470	10,810.0	AREA 11 TO SCREEN
4/1/08	48	1129	480	11,290.0	BIN 4 TO SCREEN
4/2/08	49	1178	490	11,780.0	AREA 11 TO SCREEN
4/3/08	50	1228	500	12,280.0	AREA 11 TO SCREEN
4/3/08	51	1279	510	12,790.0	BIN 4 TO SCREEN
4/4/08	52	1331	520	13,310.0	AREA 11 TO SCREEN
4/4/08	53	1384	530	13,840.0	BIN 4 TO SCREEN
4/4/08	54	1438	540	14,380.0	BIN 11 TO SCREEN
4/7/08	32	1470	320	14,700.0	BIN 11 TO SCREEN
4/8/08	42	1512	420	15,120.0	BIN 11 TO SCREEN
4/9/08	36	1548	360	15,480.0	BIN 11 TO SCREEN
4/10/08	33	1581	330	15,810.0	BIN 11 TO SCREEN
4/11/08	29	1610	290	16,100.0	BIN 11 TO SCREEN
4/14/08	25	1635	250	16,350.0	BIN 11 TO SCREEN
4/15/08	26	1661	260	16,610.0	BIN 11 TO SCREEN
4/16/08	42	1703	420	17,030.0	BIN 11 TO SCREEN
6/18/08	14	1717	140	17,170.0	AREA 11 TO SCREEN
6/19/08	44	1761	440	17,610.0	AREA 11 TO SCREEN
6/23/08	26	1787	260	17,870.0	AREA 11 TO SCREEN
6/25/08	47	1834	470	18,340.0	AREA 11 TO SCREEN
6/26/08	51	1885	510	18,850.0	AREA 11 TO SCREEN
6/27/08	60	1945	600	19,450.0	AREA 11 TO SCREEN

* 2.5CY Bucket on Excavator - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 19,450.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6

Daily Truck Count - Line Item C.6 - Load & Transport CAT I Material from Screen & Place in Bin

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	FROM SCREEN TO BIN
3/12/08	21	21	210	210.0	BIN 8
3/13/08	34	55	340	550.0	BIN 8
3/14/08	23	78	230	780.0	BIN 8
3/15/08	8	86	80	860.0	BIN 8
3/17/08	46	132	460	1,320.0	BIN 8
3/18/08	52	184	520	1,840.0	BIN 8
3/19/08	48	232	480	2,320.0	BIN 8
3/20/08	61	293	610	2,930.0	BIN 8
3/21/08	33	326	330	3,260.0	BIN 8
3/21/08	31	357	310	3,570.0	BIN 7
3/24/08	26	383	260	3,830.0	BIN 7
3/24/08	24	407	240	4,070.0	BIN 8
3/25/08	25	432	250	4,320.0	BIN 7
3/25/08	14	446	140	4,460.0	BIN 8
3/26/08	35	481	350	4,810.0	BIN 7
3/26/08	7	488	70	4,880.0	BIN 8
3/27/08	49	537	490	5,370.0	BIN 7
3/27/08	8	545	80	5,450.0	BIN 8
3/28/08	58	603	580	6,030.0	BIN 7
3/29/08	35	638	350	6,380.0	BIN 7
3/31/08	50	688	500	6,880.0	BIN 7
3/31/08	1	689	10	6,890.0	BIN 5
4/1/08	27	716	270	7,160.0	BIN 7
4/1/08	36	752	360	7,520.0	BIN 5
4/2/08	45	797	450	7,970.0	BIN 5
4/3/08	36	833	360	8,330.0	BIN 5
4/4/08	45	878	450	8,780.0	BIN 5
4/7/08	24	902	240	9,020.0	BIN 5
4/8/08	27	929	270	9,290.0	BIN 5
4/9/08	23	952	230	9,520.0	BIN 5
4/10/08	24	976	240	9,760.0	BIN 5
4/11/08	21	997	210	9,970.0	BIN 5
4/14/08	15	1012	150	10,120.0	BIN 5
4/15/08	12	1024	120	10,240.0	BIN 5
4/16/08	20	1044	200	10,440.0	BIN 5
6/18/08	1	1045	10	10,450.0	BIN 7
6/19/08	20	1065	200	10,650.0	BIN 7
6/23/08	18	1083	180	10,830.0	BIN 7
6/25/08	26	1109	260	11,090.0	BIN 7
6/26/08	35	1144	350	11,440.0	BIN 7
6/27/08	33	1177	330	11,770.0	BIN 7
6/27/08	3	1180	30	11,800.0	BIN 8

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 11,800.0

Asarco, El Paso Smelter
2008 Remedial Repository Design, Pond 6
Daily Truck Count - Line Item D.2 - Load & Transport Oversize CAT I Material from Screen & Haul to AREA 11

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10CY/LD*	CUBIC YARDS TO DATE	LOADED/HAULED FROM SCREEN TO
6/19/08	14	14	140	140.0	AREA 11
6/23/08	20	34	200	340.0	AREA 11
6/25/08	16	50	160	500.0	AREA 11
6/26/08	23	73	230	730.0	AREA 11
6/27/08	22	95	220	950.0	AREA 11

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED 950.0

NOTE: CAT I OVERSIZE MATERIAL AND DEBRIS FROM SCREENING OPERATION WAS LOADED AND TRANSPORTED BACK TO THE IMPACTED EXCAVATION - SOUTH INVESTIGATION AREA 11.
CAT I OVERSIZE MATERIAL AND DEBRIS IS NOT SUITABLE IN THE FINAL GRADING OF THE CAT I WASTE.

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	07-07-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 06/30/08 – 07/06/08
Weather:	Temp Average: 83 Rainfall Total for Week: Trace

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, June 30th, 2008
Began hauling the screened Cat I material stockpiled in the Bins Building to Pond 6 for the construction of the 2' Intermediate Layer. A total of 28 truck loads were hauled and placed from Bin 7 to Pond 6. Continuing grading and stormwater drainage work in Area 11. Heavy rain at approximately 2:30pm created slick conditions for the dump trucks, therefore work was stopped.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Tuesday, July 1st –
Continued hauling the screened Cat I material stockpiled in the Bins Building to Pond 6 for the construction of the 2' Intermediate Layer. A total of 130 truck loads were hauled from Bin 7 and placed on Pond 6. Continuing grading and stormwater drainage work in Area 11.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Wednesday, July 2nd -
Continued hauling the screened Cat I material stockpiled in the Bins Building to Pond 6 for the construction of the 2' Intermediate Layer. A total of 91 truck loads from Bin 7 and 46 loads from Bin 8 were hauled and placed on Pond 6. Continuing grading and stormwater drainage work in Area 11.

The Elgin Sweeper was used for approximately 5.0 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Thursday, July 3rd –
Continued hauling the screened Cat I material stockpiled in the Bins Building to Pond 6 for the construction of the 2' Intermediate Layer. A total of 47 truck loads from Bin 8 and 24 loads from Bin 5 were hauled and placed on Pond 6. Continuing grading and stormwater drainage work in Area 11.

The Elgin Sweeper was used for approximately 2.5 hours to clean the haul route from Pond 6 and along the back plant road from Pond 6 towards the bridges. The water trucks were used for dust control in Pond 6, Area 11, and along the haul routes. The water cannons were also used in Pond 6 for dust control.

Friday, July 4th –
Holiday – No work activities.

Saturday, June 28th -
No Work Activities.

Sunday, June 29th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue placement of the 2' Intermediate Layer.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled screened Cat I material from Bins Building to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

On Tuesday, July 1, Entact received written approval from Asarco to proceed with the purchase and delivery of both the GCL and the Double Sided Geocomposite materials so the manufacturers can schedule the production of the materials and supply samples to the laboratory.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 6/30/08, 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **7/6/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	6/30/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Tuesday	7/1/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Wednesday	7/2/08	From Pond 6 towards Area 11 and Plant Areas - 0.50 DAY
Thursday	7/3/08	From Pond 6 towards Area 11 and Plant Areas - 0.25 DAY
Friday	7/4/08	Holiday
Saturday	7/5/08	N/A
Sunday	7/6/08	N/A

The above task is charged at a daily unit rate - TOTAL DAYS JULY **1.25**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE July 7, 2008

Asarco, El Paso Smelter

Daily Truck Count - Line Item E.1 - Load, Transport, Place 2' Intermediate Layer on Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.0CY/LD*	CUBIC YARDS TO DATE	SCREENED CAT I BIN # TO POND 6
6/30/08	28	28	280	280.0	7
7/1/08	130	158	1300	1,580.0	7
7/2/08	91	249	910	2,490.0	7
7/2/08	46	295	460	2,950.0	8
7/3/08	47	342	470	3,420.0	8
7/3/08	24	366	240	3,660.0	5

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10.0CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **3,660**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	07-14-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 07/07/08 – 07/13/08
Weather:	Temp Average: 78 Rainfall Total for Week: 1.73”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, July 7th, 2008
Continued hauling the screened Cat I material stockpiled in the Bins Building to Pond 6 for the construction of the 2’ Intermediate Layer. A total of 119 truck loads were hauled from Bin 5 and placed on Pond 6. Continuing grading and stormwater drainage work in Area 11.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road. The water trucks were used for dust control along the haul routes. The water cannons were also used in Pond 6 for dust control.

Tuesday, July 8th – Approximately 0.28” of Rain early Tuesday morning
Continued hauling the screened Cat I material stockpiled in the Bins Building to Pond 6 for the construction of the 2’ Intermediate Layer. A total of 95 truck loads were hauled from Bin 5 and placed on Pond 6. Continuing grading and stormwater drainage work in Area 11.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Bins Building to Pond 6 and along the back plant road. The water trucks were used for dust control along the haul routes. The water cannons were also used in Pond 6 for dust control.

Wednesday, July 9th – Approximately 0.55” of Rain Tuesday evening
Due to the wet site conditions, the haul trucks did not run today.

One truck load of CETCO Geosynthetic Clay Liner arrived at the site in the morning. A total of 16 rolls of GCL were unloaded and stored on pallets inside the storage shed north of Pond 6. Wednesday afternoon the truck load of SKAPS Double Sided Geocomposite arrived at the site. A total of 25 rolls were unloaded and stored on top of railroad ties in the liner storage area near the southeast corner of Pond 6. Due to pending thunderstorm, it was decided to wait until tomorrow morning to load the truck with the Single Sided Geocomposite rolls to be returned to the manufacturer. Began cleaning the inside of the screener building and cleaning around and under the screening unit.

Thursday, July 10th – Approximately 0.9" of Rain Wednesday evening and throughout Thursday.
Due to the wet site conditions, the haul trucks did not run today.

The SKAPS truck returned Thursday morning, and the 21 rolls of Single Sided Geocomposite were loaded on the truck, and were shipped back to the manufacturer.

Continued cleaning inside of the screening building. Began removing large rocks and debris along and underneath the wooden train trestle west of the screening building.

Friday, July 11th –
Due to the wet site conditions, the haul trucks did not run today.

The remaining truck load of CETCO Geosynthetic Clay Liner arrived Friday morning. A total of 16 rolls of GCL were unloaded and stored on pallets inside the storage shed north of Pond 6.

Continued cleaning inside of the screening building. Completed removing the rocks and debris from under and around the wooden train trestle west of the screening building. Performed maintenance on the haul roads in Area 11 in preparation to begin hauling again next week. Completed building the berms around the concrete debris storage area on the west side of Area 11. Continued grading work on the 2' Intermediate Layer on Pond 6.

Saturday, June 12th -
No Work Activities.

Sunday, June 13th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete placement of the 2' Intermediate Layer.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled screened Cat I material from Bins Building to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Due to rain and wet conditions at the site, the 2' Intermediate Layer over Pond 6 will not be completed by 7/14/08 as scheduled. Approximately 2 days of dry weather will be required to complete the grading for the 2' Intermediate Layer.

7.0 RESOLUTION OF ISSUES OR CONCERNS

On Tuesday, July 1, Entact received written approval from Asarco to proceed with the purchase and delivery of both the GCL and the Double Sided Geocomposite materials so the manufacturers can schedule the production of the materials and supply samples to the laboratory. The remaining GCL and Double Sided Geocomposite materials were manufactured and samples were collected and sent to the laboratory. The laboratory received the GCL samples on 7/8/08 and 7/10/08 and the Double Sided Geoccomposite samples were collected by the laboratory on 7/10/08.

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 6/30/08, 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **7/13/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	7/7/08	From Bins Building to Pond 6 and Plant Areas - 0.50 DAY
Tuesday	7/8/08	From Bins Building to Pond 6 and Plant Areas - 0.50 DAY
Wednesday	7/9/08	Did Not Use
Thursday	7/10/08	Did Not Use
Friday	7/11/08	Did Not Use
Saturday	7/12/08	Did Not Use
Sunday	7/13/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS JULY **2.25**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE July 14, 2008

Asarco, El Paso Smelter

Daily Truck Count - Line Item E.1 - Load, Transport, Place 2' Intermediate Layer on Pond 6

DATE	LOADS	LOADS TO DATE	CUBIC YARDS @ 10.0CY/LD*	CUBIC YARDS TO DATE	SCREENED CAT I BIN # TO POND 6
6/30/08	28	28	280	280.0	7
7/1/08	130	158	1300	1,580.0	7
7/2/08	91	249	910	2,490.0	7
7/2/08	46	295	460	2,950.0	8
7/3/08	47	342	470	3,420.0	8
7/3/08	24	366	240	3,660.0	5
7/7/08	119	485	1190	4,850.0	5
7/8/08	94	579	940	5,790.0	5

* 2.5CY Bucket on Loader - 4 buckets per Truck Load = 10.0CY per Truck

TOTAL CUBIC YARDS LOADED/TRANSPORT/PLACED **5,790**

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	07-21-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 07/14/08 – 07/20/08
Weather:	Temp Average: 81 Rainfall Total for Week: 0.63”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, July 14th, 2008 - 0.28” Rain
Due to the overnight rain, it was too wet to run the haul trucks. Continued cleaning inside of the Screening Building and underneath the grating drainage troughs along the east wall. Cleaned out the loading hopper on the screening unit. Removed the stormwater berms from the asphalt area north of Pond 6. Began cleaning out the stormwater drain on the southside of the Firewater Ditch and removing the existing grating. A new main broom and two new side brooms were installed on the Elgin Pelican Sweeper.

Tuesday, July 15th – 0.05” Rain
Continued cleaning out the screening building – a total of 53 loads of Cat I oversize material from the screening operation was hauled from the screening building back to Area 11 and was placed in the south side Cat I excavation area. Continued the final grading of the 2’ Intermediate Layer over Pond 6. Completed cleaning of the stormwater drain on the southside of the Firewater Ditch and straightened the sections of bent grating, then replaced the grating over the stormwater drain.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from the Screening Building to Pond 6 and along the back plant road towards Area 11.

Wednesday, July 16th – No Rain
Began hauling additional clay fill from Area 11 to the vicinity of the Pump Station on the north side of Pond 6 and raised the area as per request by Asarco (as per Carlos Alvarado) – a total of 103 loads of clay was placed, compacted, and graded. Continued final shaping and grading of the 2’ Intermediate Layer on Pond 6. Began final cleaning of the Bins in the Bins Building that were utilized for screened Cat I material storage and oversize Cat I material storage.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 along the back plant road towards Area 11. The water truck was used for dust control in the work areas and along the haul route.

Thursday, July 17th – 0.05" Rain – delayed morning start due to lightning and thunderstorm
Completed the final grading of the 2' Intermediate Layer over Pond 6. Completed hauling the clay fill material from Area 11 to the north side of Pond 6 and filled in around the pump station and along the backside of the Pond 6 slope. Began hauling the clay fill along the southside of Pond 6, between the anchor bench platform and the existing pipe rack in order to widen the working platform around the repository.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 along the back plant road towards Area 11. The water truck was used for dust control in the work areas and along the haul route.

Friday, July 18th – No Rain
Completed hauling the clay fill from Area 11 to southside of Pond 6. Stockpiled a load of clean sand in the northeast corner of Pond 6 in order to fill sandbags during the liner installation. Hauled riprap from Area 11 and constructed a retaining wall between the backside of the west Pond 6 slope and the high pressure oxygen pipeline under the wooden bridge.

Saturday, June 18th – 0.25" Rain
No Work Activities.

Sunday, June 19th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete stormwater grading and erosion control work in Area 11.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	Hauled clean clay fill material from Area 11 to Pond 6.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break. ENTACT completed 1 Full year and over 39,000 manhours without an accident or injury on the Asarco Project.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Received 3 test results from Raba Kistner on the final liner components for Pond 6. The conformance testing on the GCL and the Double Sided Geocomposite met specifications. The interface shear test on the Intermediate Soil Layer vs. GCL met specifications. There are four more Interface Shear Tests to complete (GCL vs 40mil; DS Geocomp vs 40mil; Soil Cover vs DS Geocomp; GCL Internal Shear). Pond 6 is now ready for liner installation. The liner installation crew could be available towards the end of next week to begin the installation. Next week, Entact will resume working on punch list items and drainage/grading work in Area 11, which will be completed by the end of next week. If the liner testing issues are not resolved early next week, Entact will be required to go on stand-by while waiting on Raba Kistner's analysis of the liner testing.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 7/7/08, 6/30/08, 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **7/20/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	7/14/08	Replaced Main Broom and Side Brooms
Tuesday	7/15/08	From Screening Building to Pond 6 and Plant Areas - 0.50 DAY
Wednesday	7/16/08	From Screening Building to Pond 6 and Plant Areas - 0.50 DAY
Thursday	7/17/08	From Screening Building to Pond 6 and Plant Areas - 0.50 DAY
Friday	7/18/08	Did Not Use
Saturday	7/19/08	Did Not Use
Sunday	7/20/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS JULY **3.25**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE July 21, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	07-28-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 07/21/08 – 07/27/08
Weather:	Temp Average: 80 Rainfall Total for Week: 1.93”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, July 21st, 2008 -
Continuing grading work in Area 11 in the excavated areas for stormwater and erosion control. The water truck was used for dust control in Area 11 during the grading process. Removed the trees and brush from the north side of Pond 6, near the pump station.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 along the back plant road towards Area 11.

Tuesday, July 22nd –
Continuing grading work in Area 11 in the excavated areas for stormwater and erosion control. Grading area around the monitoring well located at the west end of Area 11. The water truck was used for dust control in Area 11 during the grading process.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 along the back plant road towards Area 11.

Wednesday, July 23rd –
Continuing grading work in Area 11 in the excavated areas for stormwater and erosion control. Constructing stormwater berms on the southside of Area 11. The water truck was used for dust control in Area 11 during the grading process.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 along the back plant road towards Area 11.

Thursday, July 24th –
Continued grading work in Area 11 in the excavated areas for stormwater and erosion control. Began the construction of two erosion control berms on the northwest side of Area 11. Completed constructing the stormwater berms on the southside of Area 11. The water truck was used for dust control in Area 11 during the grading process.

The Elgin Sweeper was used for approximately 5 hours to clean the haul route from Pond 6 along the back plant road towards Area 11.

Friday, July 25th –
Completed grading work in Area 11 in the excavated areas for stormwater and erosion control. Completed the construction of two erosion control berms on the northwest side of Area 11. The water truck was used for dust control in Area 11 during the grading process.

Saturday, June 26th –
No Work Activities.

Sunday, June 27th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete stormwater grading and erosion control work in Area 11.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Miguel Hernandez-Gonzalez – Field Tech
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Cory Isham - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	No Trucking This Week.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Pond 6 was ready for liner installation as of Thursday, July 17th. The liner installation crew was available this week to begin the installation. The liner testing issues were not resolved this week; therefore Entact will be required to go on stand-by while waiting on Raba Kistner's analysis of the liner testing as of Monday, July 28th.

Tropical Storm Dolly stalled over El Paso and Southern New Mexico Saturday and Sunday and the site received approximately 2" of rainfall. There is minimal erosion damage around the perimeter of the Intermediate Layer on the Cap.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 7/21/08, 7/14/08, 7/7/08, 6/30/08, 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:

Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **7/27/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	7/21/08	From Pond 6 towards Bridges and Plant Areas - 0.50 DAY
Tuesday	7/22/08	From Pond 6 towards Bridges and Plant Areas - 0.50 DAY
Wednesday	7/23/08	From Pond 6 towards Bridges and Plant Areas - 0.50 DAY
Thursday	7/24/08	From Pond 6 towards Bridges and Plant Areas - 0.50 DAY
Friday	7/25/08	Did Not Use
Saturday	7/26/08	Did Not Use
Sunday	7/27/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS JULY **5.75**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE July 28, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-04-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 07/28/08 – 08/04/08
Weather:	Temp Average: 84 Rainfall Total for Week: 0.25" Sunday 8/3/08

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, July 28th, 2008 -
Due to rain over the weekend, the site was too wet to perform work. There was minor erosion damage to the Intermediate Layer on Pond 6.

Tuesday, July 29th –
Began erosion repair work on the Pond 6 Intermediate Layer. Shoveled material that collected at the base of the slopes and began raking the toe of the slope.

Wednesday, July 30th –
Completed shoveling and raking the material at the base of the Pond 6 cap slopes. Used the bulldozer to regrade and smooth the slopes on the Pond 6 cap that had been eroded by the recent rain events.

Thursday, July 31st –
Installed a berm along the base of the Pond 6 cap slope, in order to prevent material from possibly running outside the footprint of the liner if there is a heavy rain while we are waiting for the liner installation.

Friday, August 1st –
Regrading around the perimeter of the anchor trench bench, and added additional fill material along the south side of Pond 6 along the pipe racks. Performed site housekeeping and maintenance on equipment.

Saturday, August 2nd –
No Work Activities.

Sunday, August 3rd –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Excavation of Liner anchor trench, grading and erosion repair work in Area 11, liner installation.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Gary Markum - QC	Raul Fernandez – Field Tech
Juan Carrillo - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Fernandez Trucking – 6 Drivers	No Trucking This Week.

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

7.0 RESOLUTION OF ISSUES OR CONCERNS

On Wednesday, July 30th, received approval from Tom Klempel to move forward with the completion of the Pond 6 cap and liner installation as currently designed. He also stated that Raba Kistner recommended using manufactured fiber rolls for erosion/sediment control on the slopes rather than trying to construct berms or channels on the slope surface. Entact is gathering information on straw wattle products that are utilized for slope erosion control.

Contacted Liner Installation Subcontractor and they have crews that should be finishing projects by the middle of next week (pending weather) and should be able to mobilize by the end of next week.

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 7/21/08, 7/14/08, 7/7/08, 6/30/08, 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ENTACT
3129 Bass Pro Drive
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(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-11-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/04/08 – 08/10/08
Weather:	Temp Average: 82 Rainfall Total for Week: 0.37”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August4, 2008 -
Morning rains caused the site to be too wet to perform anchor trench excavation and grading work in Area 11. No work performed due to wet site conditions

Tuesday, August 5th –
Began excavation of the liner anchor trench around Pond 6. Continued grading work and haul road work in Area 11.

Wednesday, August 6th –
Continuing the anchor trench excavation – completed the north and west sides and then began on the south side of Pond 6. Continued grading and erosion control work in Area 11.

Thursday, August 7th –
Continued the anchor trench excavation – completed the south side and began on the east side of Pond 6. Continuing grading and erosion control work in Area 11.

Friday, August 8th –
Completed the anchor trench excavation around the perimeter of Pond 6. Continuing grading and erosion control work in Area 11. Performed maintenance on site equipment.

Saturday, August 9th –
No Work Activities.

Sunday, August 10th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue grading and erosion control work in Area 11. Install riprap along backside of the Pond 6 slope near the Engineering Building Basement Door in order to help control sediment runoff. Waiting on Liner Crew to begin top liner project.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Juan Carrillo - Operator	Raul Fernandez – Field Tech
	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
None	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Waiting on liner subcontractor to have crew available to start project. Several crews have been delayed by weather, therefore pushing back the schedule to mobilize to this project.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 7/21/08, 7/14/08, 7/7/08, 6/30/08, 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-18-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/11/08 – 08/17/08
Weather:	Temp Average: 79 Rainfall Total for Week: 1.06”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August 11th, 2008 -
Continuing grading and erosion control work on the north side of the main retention pond in Area 11. Continued cleaning the inside of the Bins Building, removing material from corners and along the side walls.

Tuesday, August 12th –
Continuing grading and erosion control work on the north side of the main retention pond in Area 11. Continued cleaning the inside of the Bins Building, removing material from corners and along the side walls. The Elgin Sweeper was used to clean the haul route from the Bins Building to Pond 6 and along the back haul road from Pond 6 leading towards Area 11.

Wednesday, August 13th –
Completed grading and erosion control work on the north side of the main retention pond in Area 11. Resumed shaping and grading the excavated slopes in Area 11. Completed cleaning the inside of the Bins Building, removing material from corners and along the side walls. The Elgin Sweeper was used to clean inside of the Bins Building and along the plant roads.

Thursday, August 14th –
Began placing riprap on the southwest slope around the sump pump next to the Engineering Building. Excavated the sinkhole formed along the west side of the Sample Mill Building on the far west side of the plant. Since the heavy rains, a large area around the building and run0ff from the roof of the building all drain towards the low point along the side of the building, and the water is going between the edge of the asphalt and the building foundation, causing the soil below to become supersaturated, which caused the asphalt to sink. The wet material below the asphalt was removed, and then the hole was backfilled with dry clay material.

Friday, August 15th –
Placed gravel around the base of the pump station located on the north side of Pond 6. Began the installation of metal staircase leading down to the base of the Pond 6 north pump station. Placed gravel

around the base of the pump station. Began placing riprap along the backside of the Pond 6 slopes around the pump station.

Saturday, August 16th –
No Work Activities.

Sunday, August 17th –
No Work Activities.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue grading and erosion control work in Area 11. Install riprap along backside of the Pond 6 slope around the North Pump Station. Construct riprap drainage channels on the west and north sides of the Pond 6 North Pump Station to allow water to drain off the paved area around the pipe racks. Sweep plant areas. Waiting on Liner Crew to begin top liner project.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Juan Carrillo - Operator	Raul Fernandez – Field Tech
	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
None	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Waiting on liner subcontractor to have crew available to start project. Several crews have been delayed by weather, therefore pushing back the schedule to mobilize to this project. Estimated mobilization date is now August 22.

7.0 RESOLUTION OF ISSUES OR CONCERNS

See section 6.0 for ongoing site issues and unresolved issues and concerns on reports dated 7/21/08, 7/14/08, 7/7/08, 6/30/08, 6/23/08, 6/16/08, 6/9/08, 6/2/08, 5/23/08, 5/19/08, and 5/12/08.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **8/17/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	8/11/08	Did Not Use
Tuesday	8/12/08	From Bins Building to Pond 6 and Plant Areas - 0.50 DAY
Wednesday	8/13/08	From Bins Building to Pond 6 and Plant Areas - 0.50 DAY
Thursday	8/14/08	Did Not Use
Friday	8/15/08	Did Not Use
Saturday	8/16/08	Did Not Use
Sunday	8/17/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS AUGUST **1**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE August 18, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	08-25-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/18/08 – 08/24/08
Weather:	Temp Average: 80 Rainfall Total for Week: 0.0”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August 18th, 2008 -
Completed placement of rip rap along the slopes around the North Pump Station at Pond 6. Completed the installation of the staircase for access to the North Pump Station. Installed rip rap channel along the northeast corner of Pond 6 next to the paved area in order to allow water to drain from paved area near the Pipe Racks. Began installation of rip rap drainage channel along the north side of Pond 6, east of the North Pump Station to allow water to drain off of paved area on east side of Pipe Racks.

Tuesday, August 19th –
Completed construction of the rip rap drainage channel along the north side of Pond 6, on the east side of the Pipe Rack. Installed gravel pad around the North Pump Station staircase. Cleaned up debris and scrap wood and metal around the Pipe Rack in order to use for staging the GCL liner material.

The Elgin Sweeper was used for ¾ day to clean the plant roads from the Guard Shack to Main office and around the Bins Building and road leading to Pond 6.

Wednesday, August 20th –
Continuing grading work in Area 11 along the main berm north of the excavation slope and along the base of the upper existing hillside.

The Elgin Sweeper was used for ¾ day to clean the plant roads from the Guard Shack to Main office and around the Bins Building and road leading to Pond 6 and the water truck was used for dust control on the plant roads.

Thursday, August 21st –
Continuing grading work in Area 11 along the top of the excavated slope and around the upper existing hillside. Cleaned out the anchor trench around Pond 6 and raked the perimeter edge of the anchor trench.

The Elgin Sweeper was used for ½ day to clean the plant roads from Pond 6 towards the bridges and on the bridges. The water truck was used for dust control on the plant roads.

Friday, August 22nd –
Continuing grading work in Area 11 along the top of the excavated slope and around the west end of the upper existing hillside. Completed cleaning out the anchor trench and raking around the perimeter of Pond 6. Began moving the GCL liner rolls from underneath the storage shed over to the Pipe Rack on the north side of Pond 6.

Saturday, August 23rd –
Environmental Specialties, Inc (ESI) mobilized on-site to begin the liner project on Pond 6. Entact gave the site orientation and safety briefing with ESI prior to start of work. ESI began placing GCL along the west side of Pond 6 and continued around the south slope. A total of 14 rolls were placed – approximately 30,500 square feet.

Sunday, August 24th –
ESI continued placement of GCL along the north slope of Pond 6. A total of 7 rolls were placed – approximately 15, 500 square feet. ESI began placement of 40mil LLDPE over all GCL lined areas – began on the west end and continued around the south side, then moved over to north slope and covered all the GCL area. A total of 3 rolls were used – approximately 50,000 square feet.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete Liner Installation on Pond 6. Continue Stormwater/Erosion Grading Work in Area 11.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Roy Johnson – Operator
Sam Moss – Field Project Manager	Dan Johnson - Operator
Juan Carrillo - Operator	Raul Fernandez – Field Tech
	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Environmental Specialties, Inc – Crew of 11	Installation of Liner Components on Pond 6

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **8/24/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	8/18/08	Did Not Use
Tuesday	8/19/08	From Bins Building to Pond 6 and Main Entrance Guard Shack to Offices - 0.75 DAY
Wednesday	8/20/08	From Main Entrance Guard Shack to Offices and along back haul road from Pond 6 to Bridges - 0.75 DAY
Thursday	8/21/08	Back haul road from Pond 6 to Bridges & Bridges- 0.25 DAY
Friday	8/22/08	Did Not Use
Saturday	8/23/08	Did Not Use
Sunday	8/24/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS AUGUST **2.75**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE August 25, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-02-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 08/25/08 – 08/31/08
Weather:	Temp Average: 75 Rainfall Total for Week: 1.17"

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, August 25th, 2008 -
ESI continued deployment of GCL around the east end of Pond 6, and continued around the north side to complete the installation of the GCL layer. A total of 13 rolls were placed – approximately 28,000ft^2. ESI continued deployment of the 40mil LLDPE around the southeast side, east side, and northeast side to complete the installation of the 40mil liner. A total of 2 rolls and 1 partial roll were used – approximately 33,000ft^2.

Continued grading work in Area 11 along the top of the excavated slope and around the existing hillside, and over the top of the south investigation area.

Tuesday, August 26th –
ESI performed all quality control testing on the 40mil seams (vacuum test on patches and repairs, pressure testing on seams, and destructive testing on seams). ESI began deployment of the Double Sided Gecomposite Drainage Net (DSGeo) on the west end of Pond 6 and proceeded around the south side to the southeast corner, then moved to the northwest corner and proceeded to the northeast corner. A total of 17 rolls were placed – approximately 62,000ft^2. Entact backfilled the anchor trench where the DSGeo was placed.

Wednesday, August 27th –
ESI resumed placement of DSGeo on the southeast side and continued around the east end to the northeast corner to complete the installation of the DSGeo. A total of 5 rolls were placed – approximately 18,125ft^2. ESI then loaded equipment and demobilized from the site at approximately 1:30pm. Entact backfilled the anchor trench where the DSGeo was placed.

Continued grading on haul route through Area 11 to the clean fill stockpile.

The Elgin Sweeper was used for 1/2 day to clean the plant roads from the Guard Shack to Main office and around the Bins Building and road leading to Pond 6 and the water truck was used for dust control on the plant roads.

Thursday, August 28th –
Completed backfilling the liner anchor trench around the perimeter of Pond 6. Grading the perimeter anchor bench around the perimeter of Pond 6 and the haul road entrance and exit on the east side of the Pond. Fueled equipment and secured equipment on the Asarco Plant property.

The Elgin Sweeper was used for 1/4 day to clean the plant roads from around the Bins Building to Pond 6 and haul road leading to the bridges.

Friday, August 29th –
No Site Activities through Labor Day

Saturday, August 30th –
No Site Activities through Labor Day

Sunday, August 31st –
No Site Activities through Labor Day

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Begin placement of 2' Soil Cover over Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Dan Johnson - Operator
Sam Moss – Field Project Manager	Raul Fernandez – Field Tech
Juan Carrillo - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
Environmental Specialties, Inc – Crew of 11	Installation of Liner Components on Pond 6

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **8/31/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	8/25/08	Did Not Use
Tuesday	8/26/08	Did Not Use
Wednesday	8/27/08	From Pond 6 to Bridges including the Bridges- 0.5 DAY
Thursday	8/28/08	Back haul road from Pond 6 to Bridges - 0.25 DAY
Friday	8/29/08	Did Not Use
Saturday	8/30/08	Did Not Use
Sunday	8/31/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS AUGUST **3.5**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 2, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-08-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/01/08 – 09/07/08
Weather:	Temp Average: 75 Rainfall Total for Week: 1.24”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 1st, 2008 -
Labor Day Holiday

Tuesday, September 2nd –
Crew mobilized back to El Paso following Labor Day Holiday.

Wednesday, September 3rd –
Due to overnight/early morning rain (0.39”), the site was too wet to begin hauling the clean cover soil from Area 11 to Pond 6. Cut trenches from the east side of Pond 6 edge of slope towards the East Pump Station to allow accumulated water to drain away from side of slopes. Was able to blade around the perimeter of Pond 6 in order to prepare for the haul trucks tomorrow. Bladed the haul roads in Area 11 to remove mud in preparation for hauling.

Thursday, September 4th –
Began hauling clean backfill from stockpiled soil in Area 11 to Pond 6 to begin placement of cover soil over the top of the Pond 6 liner. Began placing soil cover over Pond 6 in the Northwest corner and began spreading along the base of the North Slope.

The water truck had a problem with the clutch; therefore the truck was swapped out in the afternoon for another 2000 gallon water truck. Began using the water truck for dust control around Pond 6, the haul roads, and Area 11.

Friday, September 5th –
Continued to haul clean backfill from Area 11 to the North Slope Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope. By the end of the shift, approximately 60% of the North Slope was covered.

Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11.

Saturday, September 6th –
Continued to haul clean backfill from Area 11 to the North Slope Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope and across the top of the cap. By the end of the shift, approximately 80% of the North Slope was covered and approximately 40% of the top of the cap was covered.

Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11.

Sunday, September 7th –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue placement of Soil Cover over Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Dan Johnson - Operator
Sam Moss – Field Project Manager	Raul Fernandez – Field Tech
Juan Carrillo - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 5 Drivers	Haul Clean Soil from Area 11 to Pond 6

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-15-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/08/08 – 09/14/08
Weather:	Temp Average: 71 Rainfall Total for Week: 0.64”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 8th, 2008 -
Due to early morning rain (0.39”), the site was too wet to run the haul trucks. Performed maintenance on equipment and assisted Asarco with stormwater control. Late afternoon, utilized the dozer to blade the haul road in Area 11 and bladed around the perimeter of Pond 6 to prepare areas to run trucks tomorrow.

Tuesday, September 9th –
Continued to haul clean backfill from Area 11 to the North Slope Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope. Completed covering the North Slope and 90% of the top of Pond 6 cap. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11.

Wednesday, September 10th –
Continued to haul clean backfill from Area 11 and began placing on the Southwest corner of Pond 6 for the soil cover layer. Continuing grading operations in Area 11 at the far east end of the original excavation slope. At the end of the shift, drainage channels were cut along the Northeast corner of Pond 6 and in the upper settling pond in Area 11 in preparation for overnight rains.

The Elgin Sweeper was used to clean the back haul road and the bridges – ¼ day. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11.

Thursday, September 11th –
Steady from 2am until 2pm made the site conditions too wet to run the haul trucks – a total of 0.25” recorded on-site. Performed maintenance on equipment and assisted Asarco with stormwater control.

Friday, September 12th –
Inspected site conditions and the Area 11 haul roads were too wet/muddy to safely run the haul trucks. Performed maintenance on equipment and assisted Asarco with stormwater control. Late in the afternoon, bladed the haul road in Area 11 and around the perimeter of Pond 6 in preparation to run the haul trucks tomorrow.

Saturday, September 13th –
Continued to haul clean backfill from Area 11 to the Southwest corner of Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope and began working the cover along the South slope – approximately 25% of the South slope is covered. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11.

Sunday, September 14th –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue placement of Soil Cover over Pond 6.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Dan Johnson - Operator
Sam Moss – Field Project Manager	Raul Fernandez – Field Tech
Juan Carrillo - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 5 Drivers	Haul Clean Soil from Area 11 to Pond 6

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com
ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **9/14/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	9/8/08	Did Not Use
Tuesday	9/9/08	Did Not Use
Wednesday	9/10/08	From Pond 6 to Bridges including the Bridges- 0.25 DAY
Thursday	9/11/08	Did Not Use
Friday	9/12/08	Did Not Use
Saturday	9/13/08	Did Not Use
Sunday	9/14/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS SEPTEMBER **0.25**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 15, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-22-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/15/08 – 09/21/08
Weather:	Temp Average: 70 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 15th, 2008 -
Continued to haul clean backfill from Area 11 to the Southwest corner of Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope and working the cover along the South slope – approximately 40% of the South slope is covered. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11. The Elgin Sweeper was used to clean the back haul road and the bridges – ¼ day.

Tuesday, September 16th –
Continued to haul clean backfill from Area 11 to the middle of the South slope of Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope – approximately 75% of the South slope is covered. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11. The Elgin Sweeper was used to clean the back haul road and the bridges – ¼ day.

Wednesday, September 17th –
Continued to haul clean backfill from Area 11 to the Southeast corner of Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope and around to the East Slope– approximately 95% of the South slope and 50% of the East slope is covered. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11. The Elgin Sweeper was used to clean the back haul road and the bridges – ¼ day.

Thursday, September 18th –
Continued to haul clean backfill from Area 11 to the East slope of Pond 6 for the soil cover layer. Continued working the soil cover from the base of the slope, up towards the top of the slope– approximately 95% of the East slope is covered. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11. The Elgin Sweeper was used to clean the back haul road and the bridges – ¼ day.

Friday, September 19th –
Completed to hauling clean backfill from Area 11 to Pond 6 for the soil cover layer. Placed loads of clean fill around the perimeter of Pond 6, North Pond 6, Between the East Pump Station and Scale House, and on the East side of the Laboratory Building for final grading work. Continued using the water truck for dust control around Pond 6, the haul roads, and Area 11. The Elgin Sweeper was used to clean the back haul road and the bridges – ¼ day.

Saturday, September 20th –
Began final grading work on the soil cover layer on Pond 6. Moved the railroad ties from the East side of the Laboratory building to the storage area near the first bridge. Dismantled the wooden platforms located on the North side of Pond 6. Resumed grading activities in Area 11 on the clean excavated slopes for stormwater/erosion control. Ran water truck for dust control around Pond 6 and in Area 11.

Sunday, September 21st –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Final grading of Soil Cover over Pond 6. Crew Rotation at end of next week.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Dan Johnson - Operator
Sam Moss – Field Project Manager	Raul Fernandez – Field Tech
Juan Carrillo - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
F&F Trucking – 5 Drivers	Haul Clean Soil from Area 11 to Pond 6

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

Wednesday, September 17th - The TCEQ performed an inspection on the Stormwater Permit work for Area 11. David Will – Investigator Water Quality Office of Compliance & Enforcement – Field Operations Division arrived at approximately 10:00am and went over the Stormwater Plan, Inspections, and background of the project with Arturo Burgos (Asarco), Emile Couroux (Raba Kistner), and Kirk Gates (Entact). Mr. Will also performed a field inspection in Area 11 to check the in-place stormwater controls. Mr. Will gave a verbal approval for the inspection and did not report any insufficient items on his checklist.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 Week Ending

LOCATION: El Paso, Texas **9/21/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	9/15/08	From Pond 6 to Bridges including the Bridges- 0.25 DAY
Tuesday	9/16/08	From Pond 6 to Bridges including the Bridges- 0.25 DAY
Wednesday	9/17/08	From Pond 6 to Bridges including the Bridges- 0.25 DAY
Thursday	9/18/08	From Pond 6 to Bridges including the Bridges- 0.25 DAY
Friday	9/19/08	From Pond 6 to Bridges including the Bridges- 0.25 DAY
Saturday	9/20/08	Did Not Use
Sunday	9/21/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS SEPTEMBER **1.5**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 22, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	09-29-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/22/08 – 09/28/08
Weather:	Temp Average: 73 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 22nd, 2008 -
The Cat D-5 LGPDozer was not operating Monday morning due to an electrical issue. Grading activities on the Pond 6 soil cover layer will resume once Cat D-5 is repaired. Moved the dismantled the wooden platforms located on the North side of Pond 6 to the storage area before the first bridge. Continuing grading activities in Area 11 on the clean excavated slopes for stormwater/erosion control. Ran water truck for dust control around Pond 6 and in Area 11. The Elgin Sweeper was used to clean the back haul road and the bridges – 1/2 day.

Tuesday, September 23rd –
The Caterpillar mechanic arrived at approximately 9:00am to begin working on the Cat D5 dozer. Performed grading work around the gas pipe substation near the northeast corner of Pond 6. Graded around the area near the high voltage power pole and guy wires. Catepillar mechanic repaired the Cat D5 dozer at approximately 1:30pm.

Wednesday, September 24th –
Continued final grading work on the soil cover layer on Pond 6. Ran water truck for dust control around Pond 6 and on back haul road and bridges. The Elgin Sweeper was used to clean the back haul road and the bridges – 1/4 day. Graded road south of Area 11 for Asarco to improve access to monitoring wells. Increased the berm height along the upper settling Pond in Area 11. Installed riprap around the base of the east monitor well at the top of the Area 11 slope.

Thursday, September 25th –
Continued final grading work on the soil cover layer on Pond 6. Cleaned up sediment from along the edge of the road and curb on the east side of the Bins Building. Ran water truck for dust control around Pond 6 and on road around the Bins Building. The Elgin Sweeper was used to clean the road around the Bins Buidling – 1/4 day.

Friday, September 26th –
Crew off for weekend rotation.

Saturday, September 27th –
Crew off for weekend rotation.

Sunday, September 28th –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Final grading of Soil Cover over Pond 6 and begin construction on perimeter drainage channel.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Dan Johnson - Operator
Juan Carrillo - Operator	Raul Fernandez – Field Tech
Jesus Chapa - Operator	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
None.	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com ENTACT Project Manager - 214.415.2974 (cell)

ASARCO EL PASO
ELGIN PELICAN
STREET SWEEPING

CLIENT: Asarco, Incorporated

CONTRACT: 2008 Remedial Repository Design, Pond 6 — Week Ending

LOCATION: El Paso, Texas — **9/28/2008**

STREET SWEEPING

Day of Week	Date	Areas Used
Monday	9/22/08	From Pond 6 to Bridges including the Bridges- 0.5 DAY
Tuesday	9/23/08	Did Not Use
Wednesday	9/24/08	From Pond 6 to Bridges - 0.25 DAY
Thursday	9/25/08	Road from Bins Building and along East Side of Bins Building - 0.25 DAY
Friday	9/26/08	Did Not Use
Saturday	9/27/08	Did Not Use
Sunday	9/28/08	Did Not Use

The above task is charged at a daily unit rate - TOTAL DAYS SEPTEMBER **2.5**

SIGNATURE ENTACT Services, LLC Kirk Gates

DATE September 29, 2008

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-06-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 09/29/08 – 10/05/08
Weather:	Temp Average: 70 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, September 29th, 2008 -
The Cat D-5 LGPDozer was not operating Monday morning due to a reoccurring electrical issue. Continuing grading activities in Area 11 on the clean excavated slopes for stormwater/erosion control. Installed a rip rap stormwater breaker along the flow line of the northwest drainage channel leading into the upper sediment basin. Began construction of the upper slope stormwater berm along the top of the excavated slope, running from the far east monitoring well to the far west monitoring well.

Tuesday, September 30th –
Completed the construction of the upper slope stormwater berm in Area 11. Completed the construction of a stormwater berm along the edge of the lower haul road and upper sediment basin. Caterpillar mechanic repaired the Cat D-5 LGP dozer by approximately 12:00. Continued final grading on the Pond 6 soil cover layer. The water truck was used for dust control in Area 11 and around Pond 6.

Wednesday, October 1st –
Continued final grading on the Pond 6 soil cover layer. Began construction of a drainage channel north of Pond 6 to drain from the asphalt area down to the lower access road near the gas pipeline substation. The water truck was used for dust control around Pond 6 during the grading process.

Thursday, October 2nd –
Completed the final grading and tracking in of the slopes on the Pond 6 soil cover layer. Grading work performed around the perimeter of Pond 6 in preparation to begin staking out the perimeter drainage ditch. The water truck was used for dust control around Pond 6 during the grading process.

Friday, October 3rd –
Began surveying and staking out the perimeter drainage ditch on the north side of Pond 6. Set centerline for ditch and slope stakes.

Saturday, October 4th –
Kirk Gates traveled to the Asarco Deming, NM project to perform subgrade field measurements of the north and south outflow structures.

Sunday, September 28th –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Continue construction on perimeter drainage channel.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Dan Johnson - Operator
Juan Carrillo - Operator	Raul Fernandez – Field Tech
	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
None.	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com ENTACT Project Manager - 214.415.2974 (cell)

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-13-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 10/06/08 – 10/12/08
Weather:	Temp Average: 70 Rainfall Total for Week: 0.09”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, October 6th, 2008 -
Installed rip rap outlet structure at the downstream end of the Pond 6 perimeter drainage channel – directly in front of the asphalt pad of the East Pump Station. Began construction of the perimeter drainage channel on the downstream end of the north channel section. Completed approximately 55’ of ditch to grade and shaped the side slopes of the V-ditch.

Tuesday, October 7th –
Continued construction of the north perimeter channel on Pond 6. Complete approximately 120’ of ditch to grade and shaped the side slopes of the V-ditch. Wagner Caterpillar picked up the 928 loader, which was taken off rent on 10/6/08.

Wednesday, October 8th –
Continued construction of the north perimeter channel on Pond 6. Complete approximately 145’ of ditch to grade and began shaping the side slopes of the V-ditch. Staked out the centerline of the south perimeter channel section.

Thursday, October 9th –
Continued construction of the north perimeter channel on Pond 6. Complete approximately 100’ of ditch to grade and continued shaping the side slopes of the V-ditch. Began the grading work outside of the V-ditch – between the ditch and existing structures on the north channel sectioon. Surveyed the centerline points of the south perimeter channel section.

Friday, October 10th –
Continued the final slope shaping of the V-ditch on the north section and continuing grading work outside of the V-ditch.

Kirk Gates drove to Deming, NM for a meeting with Entact Field Project Manager on the Asarco Mill Tailings Erosion repair project.

Saturday, October 11th –
Completed the slope and perimeter grading work on the north drainage channel section.

Sunday, October 12th –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Begin construction on the south perimeter drainage channel.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Dan Johnson - Operator
Juan Carrillo - Operator	Raul Fernandez – Field Tech
	Humberto Valenzuela – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
None.	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com ENTACT Project Manager - 214.415.2974 (cell)

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(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-20-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 10/13/08 – 10/19/08
Weather:	Temp Average: 70 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, October 13th, 2008 -
Began construction of the south perimeter drainage channel around Pond 6. Completed approximately 130’ of ditch to grade and shaped the V-ditch slopes. Resumed the final grading on the clean excavated slopes in Area 11 and checking all the stormwater control berms.

Tuesday, October 14th –
Continuing the construction of the south perimeter drainage channel around Pond 6. Completed approximately 140’ of ditch to grade and shaped the V-ditch slopes. Continued the final grading on the Area 11 slopes and along the bottom of the excavated area.

Wednesday, October 15th –
Continuing the construction of the south perimeter drainage channel around Pond 6. Completed approximately 140’ of ditch to grade and shaped the V-ditch slopes. Completed the final grading on the Area 11 slopes and along the bottom of the excavated area. Arturo Burgos and Walter Boyle approved the final grading and stormwater controls in Area 11.

Thursday, October 16th –
Continuing the construction of the south perimeter drainage channel around Pond 6. Completed approximately 130’ of ditch to grade and shaped the V-ditch slopes.

Friday, October 17th –
Completed the construction of the south perimeter drainage channel around Pond 6. Completed approximately 130’ of ditch and continuing to fine grade the flow line and V-ditch slopes

Saturday, October 18th –
Completed the V-ditch slope grading work on the South drainage channel section. Began final grading around the perimeter of Pond 6 – outside of the drainage channel. Began grading along the west and continued along the south side.

Sunday, October 19th –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Complete final grading work around the Perimeter of Pond 6 and on the east side of the Laboratory building. As-Built topographic survey of Pond 6. Demobilization of equipment and personnel.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Raul Fernandez – Field Tech
Juan Carrillo - Operator	Humberto Valenzuela – Field Tech
	Miguel H. Gonzalez – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
None.	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

None.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com ENTACT Project Manager - 214.415.2974 (cell)

ENTACT
3129 Bass Pro Drive
Grapevine, TX 76051
(972) 580-1323
(972) 550-7464 (fax)

Weekly Progress Report

ASARCO El Paso – El Paso, Texas

Date:	10-27-08
Completed by:	Kirk Gates
cc:	Arturo Burgos-ASARCO, Walter Boyle-ASARCO, Greg Dambold-ENTACT
Subject:	Period 10/20/08 – 10/26/08
Weather:	Temp Average: 70 Rainfall Total for Week: 0.00”

1.0 INTRODUCTION

ENTACT has prepared the following summary report to describe project activities at the ASARCO Incorporated facility located at 2301 W. Paisano Drive, El Paso, Texas.

2.0 SITE ACTIVITIES COMPLETED THIS REPORTING PERIOD

Monday, October 20th, 2008 -
Continued grading around the perimeter base of the Pond 6 repository. The Caterpillar D5 dozer broke down at approximately 11:00am. Performed as much grading activities as possible using the Takeuchi mini-excavator blade.

Tuesday, October 21st –
Continued using the Takeuchi mini-excavator to perform grading activities around the perimeter of Pond 6 and on the East side of the Laboratory building. The Caterpillar D5 dozer was repaired by the end of the shift. Held a preliminary walk-through with Asarco (Arturo Burgos, Walter Boyle, and Ed Santiesteban) for the Pond 6 work – they requested that the south side, west end, and northwest corner of the perimeter anchor bench area be graded so that the outside of the bench be higher than the edge of the perimeter drainage channel.

Wednesday, October 22nd –
Utilized the Caterpillar D5 dozer to complete the grading work around the south side, west end and northwest corner, to angle the perimeter access towards the drainage channel. Completed the drainage grading on the east side of the Laboratory Building to promote drainage towards the East Pump Station. Held final walk-through with Ed Santiesteban of Asarco, and he approved the final grading. He stated he would report his approval of the work to Arturo Burgos and Walter Boyle. Cleaned all the equipment (Caterpillar D5 LGP dozer, Ford F750 Water Truck, Takeuchi Mini-Excavator, Ford F150 rental pickup and called off rent.

Thursday, October 23rd –
Hertz Equipment picked up the rented Ford F150 site pickup truck. United Rentals picked up the Ford F750 Water Truck, Takeuchi Mini-Excavator and Wacker plate compactor. Cleaned the Entact office area, breakroom and bathroom.

Friday, October 24th –
Wagner Equipment picked up the Caterpillar D5 LGP Dozer.

Saturday, October 25th –
Picked up project file boxes from Entact office and demobilized from Site. Kirk Gates turned his set of Asarco keys to the Guards.

Sunday, October 26th –
No work activities on site.

3.0 SITE ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Project Completed on 10/22/08.

4.0 PROJECT PERSONNEL ON-SITE

ENTACT Personnel:

Kirk Gates – Admin Project Manager / H&S	Raul Fernandez – Field Tech
Juan Carrillo - Operator	Humberto Valenzuela – Field Tech
	Miguel H. Gonzalez – Field Tech

SUBCONTRACTORS:

NAME	WORK PERFORMED
None.	

5.0 HEALTH & SAFETY ISSUES/CONCERNS/HAZARD RECOGNITION

ENTACT conducted daily tailgate safety meetings prior to the start of daily work activities and after the lunch break.

6.0 ISSUES/CONCERNS/DISCUSSIONS ARISING THIS PERIOD

The Arcadis design for the repository caps was for an asphalt layer to be installed over the final soil cover layer to prevent erosion to the soil cap and possible damage to the liner system. Entact supplied Asarco with pricing for installation of Straw Wattle around the Pond 6 slopes to help minimize erosion caused by rain, but at the time, Asarco had decided to cover the entire Pond 6 cap, perimeter ditch and surrounding area with asphalt. Asarco received pricing and informed Entact that upon completion of Entact's work, an asphalt layer was going to be placed over the entire Pond 6 cap, perimeter drainage channel, and perimeter areas. This would have prevented erosion to the soil cover layer over Pond 6 and would have virtually eliminated maintenance for the Pond 6 repository. Prior to completion of the perimeter drainage channel, Asarco informed Entact that there would be no asphalt layer placed over the Pond 6 area. Without an asphalt covering or tackifier coating over the soil cover layer, a heavy rainfall event will cause erosion to the Pond 6 side slopes and will fill the perimeter drainage channel with runoff material and will create maintenance issues. Entact will not be responsible for erosion damage to the soil cover layer on the Pond 6 slopes or erosion to the perimeter drainage channel caused by a rain event.

7.0 RESOLUTION OF ISSUES OR CONCERNS

None.

8.0 PROJECT CONTACT INFORMATION

If you have any questions or comments pertaining to this report, please contact:
Kirk Gates - kgates@entact.com ENTACT Project Manager - 214.415.2974 (cell)

Appendix K Project Photographs – Category I Excavation & Landfills

1 7-25-2007 Area 11 Concrete & Debris Management2.JPG
2 7-25-2007 Area 11 Concrete Sizing4.JPG
3 7-26-2007 Area 11 Concrete Debris Management.JPG
4 7-26-2007 Area 11 Concrete Processing and Segretating Metal1.JPG
5 7-26-2007 Area 11 Concrete Processing and Segretating Metal2.JPG
6 7-26-2007 Area 11 Concrete Processing and Segretating Metal8.JPG
7 7-30-07 Area 11 Northeast Impacted Slope.JPG
8 8-2-2007 Area 11 Severe Storm - Retention Pond.JPG
9 8-2-2007 Area 11 Severe Storm.JPG
10 8-2-2007 Asarco Entrance - American Canal Full.JPG
11 8-2-2007 Interstate 10 Stormwater.JPG
12 8-6-2007 Zinc Plant - Begin Backfilling Foundations.JPG
13 8-9-2007 Loading North Stack Stockpiled Overburden - Backfill Material for Zinc Plant.JPG
14 8-9-2007 Zinc Plant Backfilling Foundation Area.JPG
15 8-10-2007 Zinc Plant - Building Ramp to Upper Foundation Area.JPG
16 8-11-2007 North Pond 1 Overburden Stockpile - Loading for Zinc Plant Backfill1.JPG
17 8-11-2007 Zinc Plant - Grading Backfill Area.JPG
18 8-14-2007 Zinc Plant - Stockpiling Backfill for Slope to Lower Foundation.JPG
19 8-15-2007 Area 11 Concrete Processing and Segregating Metal2.JPG
20 8-15-2007 Area 11 Concrete Processing and Segregating Metal.JPG
21 8-17-2007 Area 11 - Sediment Removal from Retention Pond.JPG
22 8-20-2007 Screening Impacted Soil - Stockpile Unloading Building.JPG
23 8-22-2007 Area 11 - Northeast Impacted Area - Loading Trucks - Haul to Screening Unit1.JPG
24 8-22-2007 Pond 5 - Dump Screened Impacted Soil for Protective Layer.JPG
25 8-22-2007 Pond 5 - Pumping Water from Bottom.JPG
26 8-23-2007 Area 11 Stormwater Retention Pond.JPG
27 8-23-2007 Zinc Plant - Compacting Slopes.JPG
28 8-23-2007 Zinc Plant Backfill Area Compacted.JPG
29 8-27-2007 Pond 5 - Placement of Screened Impacted Soil Protective Cover1.JPG
30 8-28-2007 Pond 5 - Placement of Screened Impacted Soil.JPG
31 8-28-2007 Pond 5 - Pumping Remainder of Water Prior to Backfilling.JPG
32 9-6-2007 Area 11 - Grading Clean Slope at Northeast End1.JPG
33 9-7-2007 Area 11 - Northeast Impacted Slope - Loading Impacted Materia - Haul to Screenerl.JPG
34 9-7-2007 Pond 5 - Compacting Protective Cover Material1.JPG
35 9-10-2007 Area 12 - Adjacent to Interstate 10.JPG
36 9-10-2007 Area 12 - Dust Control during Removal of Impacted Material from Slopes and Bottom of Pond.JPG
37 9-12-2007 Area 12 - Managing Wet Material in Bottom of Pond.JPG
38 9-13-2007 Area 12 - Removing Impacted Material from Slope3.JPG
39 9-14-2007 Area 12 - Removed Impacted Material from East Slope.JPG
40 9-18-2007 Area 12 - Grading Bottom of Cell - Dust Control2.JPG
41 9-18-2007 Area 12 - Removed Impacted Material from Bottom.JPG
42 9-18-2007 Pond 5 - Placement of Protective Cover3.JPG
43 9-24-2007 Area 12 - Begin Placement of Clean Backfill.JPG
44 9-24-2007 Area 12 - Bottom of Area Post Sampling.JPG
45 9-24-2007 Area 12 - Placement of Clean Backfill Material to Cap Area and Slope for Drainage.JPG
46 9-27-2007 Ephermeral Pond - Drainage and Grading Work a.JPG
47 9-27-2007 Pond 5 - Placement of Impacted Material a.JPG
48 10-2-2007 Area 12 - Grading Area to Drain towards stormwater ditch a.JPG
49 10-2-2007 Pond 5 - Placing lift of Cat I Material from Area 11 a.JPG
50 10-8-2007 Firewater Ditch - Pumphouse Demolition a.JPG
51 10-12-2007 Area 12 - Cleaning Impacted material from West Slope - view towards East.JPG
10-12-2007 Area 12 - Dust Control during impacted material removal a.JPG

52 10-12-2007 Area 12 - Dust Control during impacted material removal a.JPG
53 10-15-2007 Area 12 - dumping clean fill to cap slope.JPG
54 10-15-2007 Area 12 - dust control & water prep of clean fill a.JPG
55 10-15-2007 Area 12 - Placing Clean Clay Fill Material on Area 12 upper slope a.JPG
56 10-18-2007 Area 12 Slope - Placement of clean processed concrete in deep ravine area.JPG
57 10-24-2007 Firewater Ditch - Graded Backfill over west end.JPG
58 10-24-2007 Pond 5 - Placing oversize Cat I material from screening process in lift over cell.JPG
59 10-29-2007 Area 1A-3 West of Building - Asarco collection of samples at bottom of excavation.JPG
60 10-30-2007 Area 1A-3 Pump Station - Excavation of Cat I material a.JPG
61 10-30-2007 Area 1A-3 West of Building - Cat I material removed from between building & RR tracks.JPG
62 11-7-2007 Pond 5 - Anchor Trench construction.JPG
63 11-9-2007 Area 11 - Excavating Clean clay material for capping Area 12 Slope.JPG
64 11-10-2007 Area 11 - East end, loading clean clay for capping Area 12 Slope.JPG
65 11-10-2007 Area 11 - Far East End, View to the West.JPG
66 11-13-2007 Pond 5 - Intermediate Layer.JPG
67 11-27-2007 Pond 5 - GCL & 40mil placed - Geocomposite Drainage Net on Top d.JPG
68 11-28-2007 Pond 5 - Placing Soil Erosion Layer Over Geocomposite.JPG
69 11-29-2007 Pond 5 - Cat D5LGP Placing Soil Erosion Layer.JPG
70 12-5-2007 Pond 6 Existing Condition - East End Slope.JPG
71 12-5-2007 Pond 6 Existing Conditions - Pipe Supports South Side looking towards west.JPG
72 12-7-2007 Area 12 - Installed Stormwater Berm on East Side of Pond to divert runoff from I-10.JPG
73 12-7-2007 Ephemeral Pond - South side of Fines Pile Existing Condition base of Pile.JPG
74 12-8-2007 Area 12 - Placing Riprap along base of slope for erosion control a.JPG
75 12-8-2007 Area 12 Slope - Riprap along base of slope.JPG
76 12-8-2007 Ephemeral Pond - Widening existing drainage channel along south side of Fines Pile.JPG
77 12-12-2007 Ephemeral Pond - moving drainage channel away from base of Fines Pile.JPG
78 12-14-2007 Ephemeral Pond - View towards East.JPG
79 12-14-2007 Pond 5 - Soil Erosion Layer compacted with smooth drum roller.JPG

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1 E Pond 6 12-6-07.jpg
2 E South Slope fill and grading 11-27-07 (2).jpg
3 E South Slope fill and grading 11-27-07 (3).jpg
4 E South Slope fill and grading 11-27-07.jpg
5 E South Slope grading 12-6-07.jpg
6 E South Slope grading (2) 12-6-07.jpg
7 N ENTACT liner installation at Pond 5 11-26-07.jpg
8 N North Slope debris removal 11-27-07.jpg
9 N North Slope grading 12-6-07 (2).jpg
10 N North Slope grading 12-6-07.jpg
11 N Pond 6 area 12-6-07 (2).jpg
12 N Pond 6 area 12-6-07.jpg
13 NE ENTACT liner installation at Pond 5 11-26-07 (2).jpg
14 NE ENTACT liner installation at Pond 5 11-26-07.jpg
15 NE North Slope debris removal 11-27-07.jpg
16 NE South Slope 12-6-07.jpg
17 NW ENTACT liner installation at Pond 5 11-28-07.jpg
18 NW North Slope grading 12-8-07.jpg
19 NW Pond 5 completed 12-6-07.jpg
20 S Pond 6 area 12-6-07.jpg
21 S South Slope grading 12-6-07.jpg
22 SE ENTACT liner installation at Pond 5 11-26-07.jpg
23 SE ENTACT Screening soil for LF Cap 11-20-07 (2).jpg
24 SE ENTACT Screening soil for LF Cap 11-20-07 (3).jpg
25 SE ENTACT Screening soil for LF Cap 11-20-07.jpg
26 SE South Slope grading 12-6-07.jpg
27 SE South Slope grading 12-8-07 (2).jpg
28 SE South Slope grading 12-8-07.jpg
29 Slag Fines in Area 12 11-29-07 (2).jpg
30 Slag Fines in Area 12 11-29-07 (3).jpg
31 Slag Fines in Area 12 11-29-07 (4).jpg
32 Slag Fines in Area 12 11-29-07 (5).jpg
33 Slag Fines in Area 12 11-29-07 (6).jpg
34 Slag Fines in Area 12 11-29-07 (7).jpg
35 Slag Fines in Area 12 11-29-07 (8).jpg
36 Slag Fines in Area 12 11-29-07 (9).jpg
37 Slag Fines in Area 12 11-29-07.jpg
38 SW North Slope 12-6-07.jpg
39 SW South Slope grading 12-6-07 (2).jpg
40 SW South Slope grading 12-6-07.jpg
41 W ENTACT liner installation at Pond 5 11-28-07 (2).jpg
42 W ENTACT liner installation at Pond 5 11-28-07.jpg
43 W Pond 5 with soil cap 12-6-07 (2).jpg
44 W Pond 5 with soil cap 12-6-07.jpg

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2008 Pond 6/Cell 3 Landfill Construction Photos

1 3.03 Pond 6 - View from Northeast Corner Shaping and Compacting.JPG
2 3.10 Pond 6 - Installing 10mil PVC pipe wrap on piping west slope.jpg
3 3.19 Pond 6 Final Grading along north slope.jpg
4 3.19 Pond 6 Moisture Prepping North slope.jpg
5 3.21 Pond 6 - Moisture prep for final grading on backside of South.jpg
6 3.25 Pond 6 Compaction Test on Top of Slope a.jpg
7 3.25 Pond 6 Compaction Test on Top of Slope b.jpg
8 3.31 Pond 6 As Built Topographic Survey.JPG
9 4.01 Pond 6 moisture prepping south slope prior to rolling.jpg
10 4.02 Pond 6 Liner Storage Area.JPG
11 4.14 GCL Deployment on northwest corner.JPG
12 4.14 Pond 6 Digging Anchor Trench.jpg
13 4.14 QC destructive seam test.JPG
14 4.14 QC documentation for destructive seam testing.JPG
15 4.14 Welding 60mil HDPE seam.JPG
16 4.16 extrusion welded patch over 60mil panel intersection.JPG
17 4.17 Destructive Seam Test 2.JPG
18 4.17 Extrusion Weld Repair.JPG
19 4.17 Pond 6 Construction Entrance Placing Gravel & Dust cont.JPG
20 4.22 Pond 6 Screened Ramp Construction at East End.jpg
21 4.28 Pond 6 Dumping Cat I material in Bottom of Cell.JPG
22 5.05 Pond 6 Dust Control West Side Water Cannon.jpg
23 5.16 Pond 6 Dumping Cat I Material on East end of cell.jpg
24 5.29 Pond 6 Placing Cat I Material in Cell.jpg
25 6.05 Pond 6 View of Northeast corner.JPG
26 6.18 Pond 6 View along north side.JPG
27 6.24 Pond 6 Water Cannons South and West Sides.JPG
28 6.26 Raba Kistner collecting 40mil LLDPE samples.JPG
29 7.01 Pond 6 Placing Cat I on top of cell west end.JPG
30 7.16 Pond 6 northwest corner looking at north slope.JPG
31 7.17 Pond 6 Finishing bottom of slope north side.JPG
32 7.30 Pond 6 Final Grade Int Layer south side.JPG
33 7.30 Pond 6 Intermediate Layer Final Grade.JPG
34 8.18 North Pump Sta Pond 6 placement of rip rap and stairs.JPG
35 8.18 Northwest Pond 6 rip rap drain channel.JPG
36 8.23 document vacuum test results.JPG
37 8.23 GCL deployment from top down on south slope.JPG
38 8.23 heating overlap seams of GCL.JPG
39 8.23 patch on 60mil - passed.JPG
40 8.25 Deployment of GCL around northeast corner.JPG
41 8.25 Extrusion welding patch top northwest corner.JPG
42 8.25 location of destructive seam test 1 panels 17&18 upper .JPG
43 8.25 Pond 6 view of north side 40mil at far end, GCL in fore.JPG
44 8.25 Welded patch over panel intersections.JPG
45 8.26 Deployment of DS Geo Comp layer on west side.JPG
46 8.26 Preparing seam on DS Geo Comp layer.JPG
47 8.26 Pressure Testing seams.JPG
48 8.26 Vacuum testing patches near southwest corner.JPG
49 9.04 Begin placement of Cover Soil over DS Geocomposite nort.JPG
50 9.10 placement of cover soil on southwest corner.JPG
51 9.20 Begin final grading of cover soil layer over Pond 6.JPG
52 10.02 Pond 6 View of northeast corner grading around perimet.JPG
53 10.07 Excavating perimter drainage channel along base of nor.JPG
54 10.14 Pond 6 Perimeter drainage channel at the southeast cor.JPG

56 10.22 Pond 6 Completed- NW Corner looking south.JPG
57 10.22 Pond 6 Completed- NW Corner.JPG
58 10.22 Pond 6 Completed- Perimeter Channel on East Side leadi.JPG
59 10.22 Pond 6 Completed- SW Corner down South Side.JPG
60 10.22 Pond 6 Completed- SW Corner.JPG
61 10.22 Pond 6 Completed- View of NE Corner.JPG

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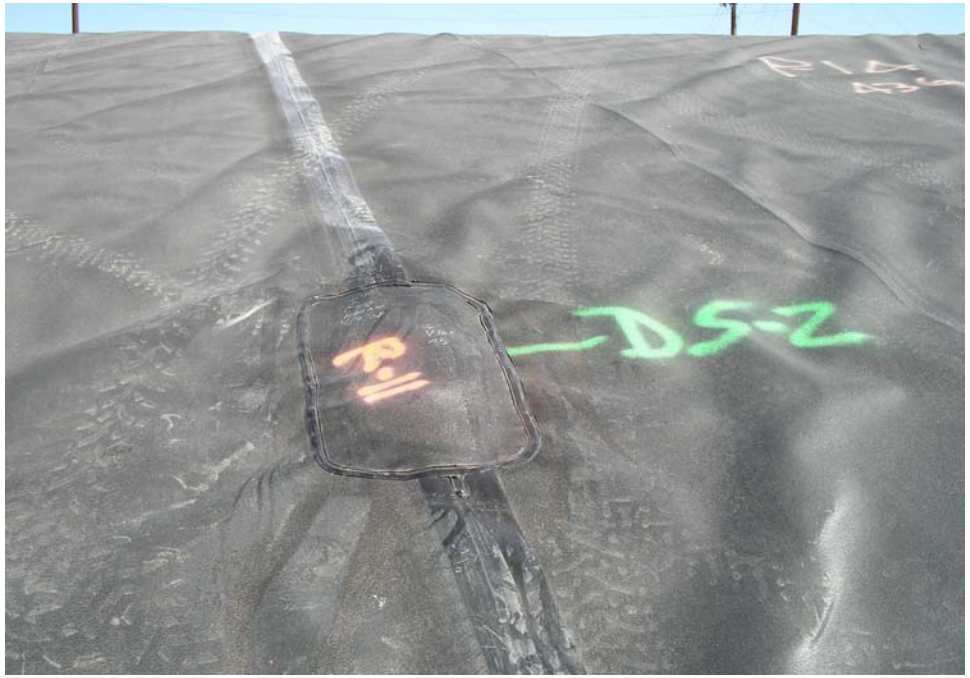

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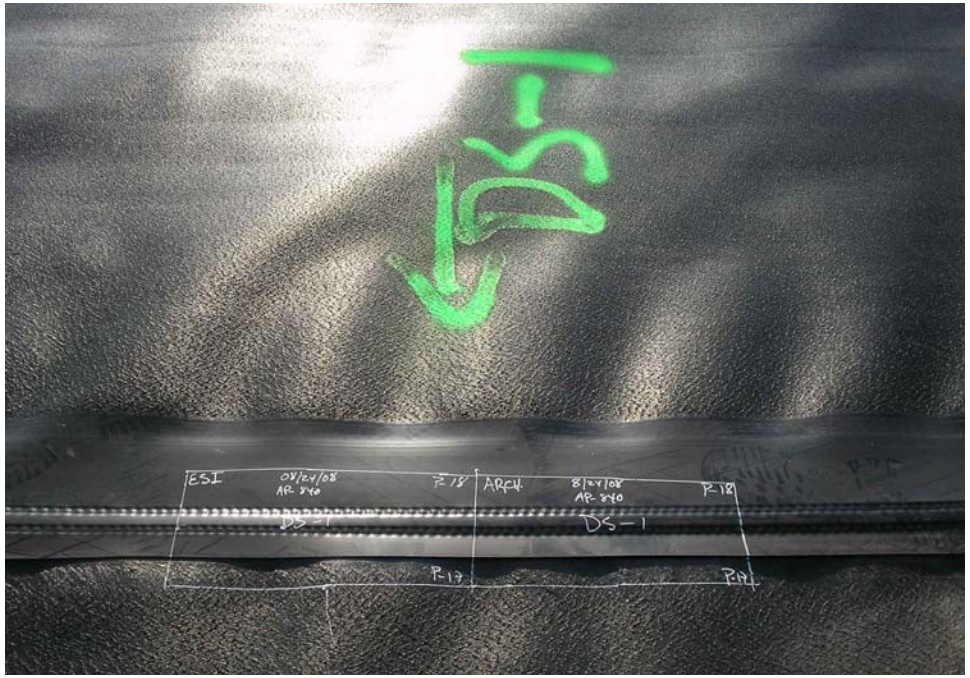
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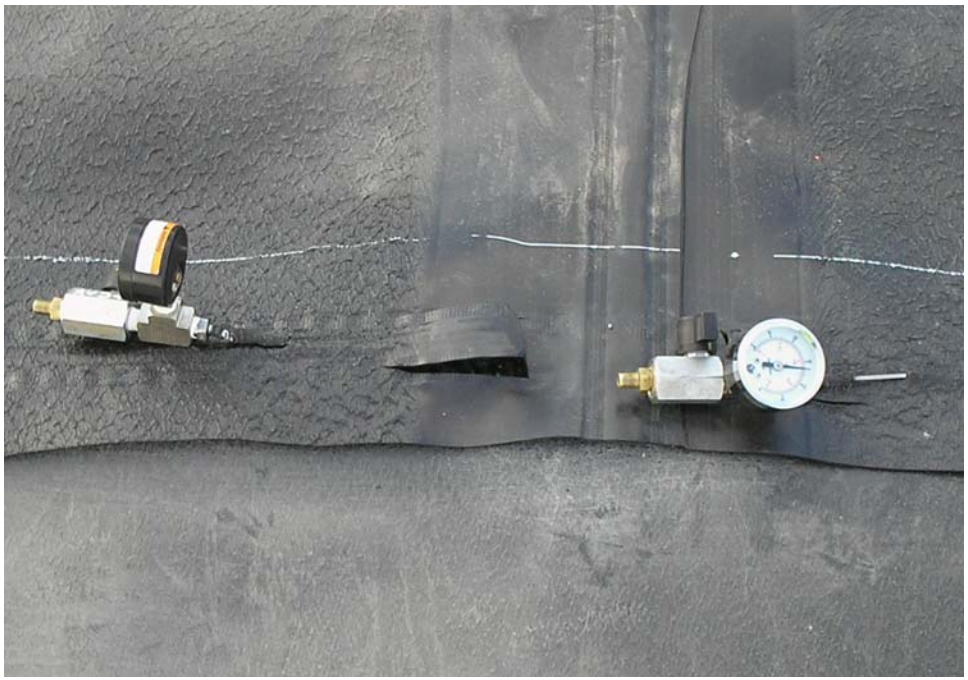

47

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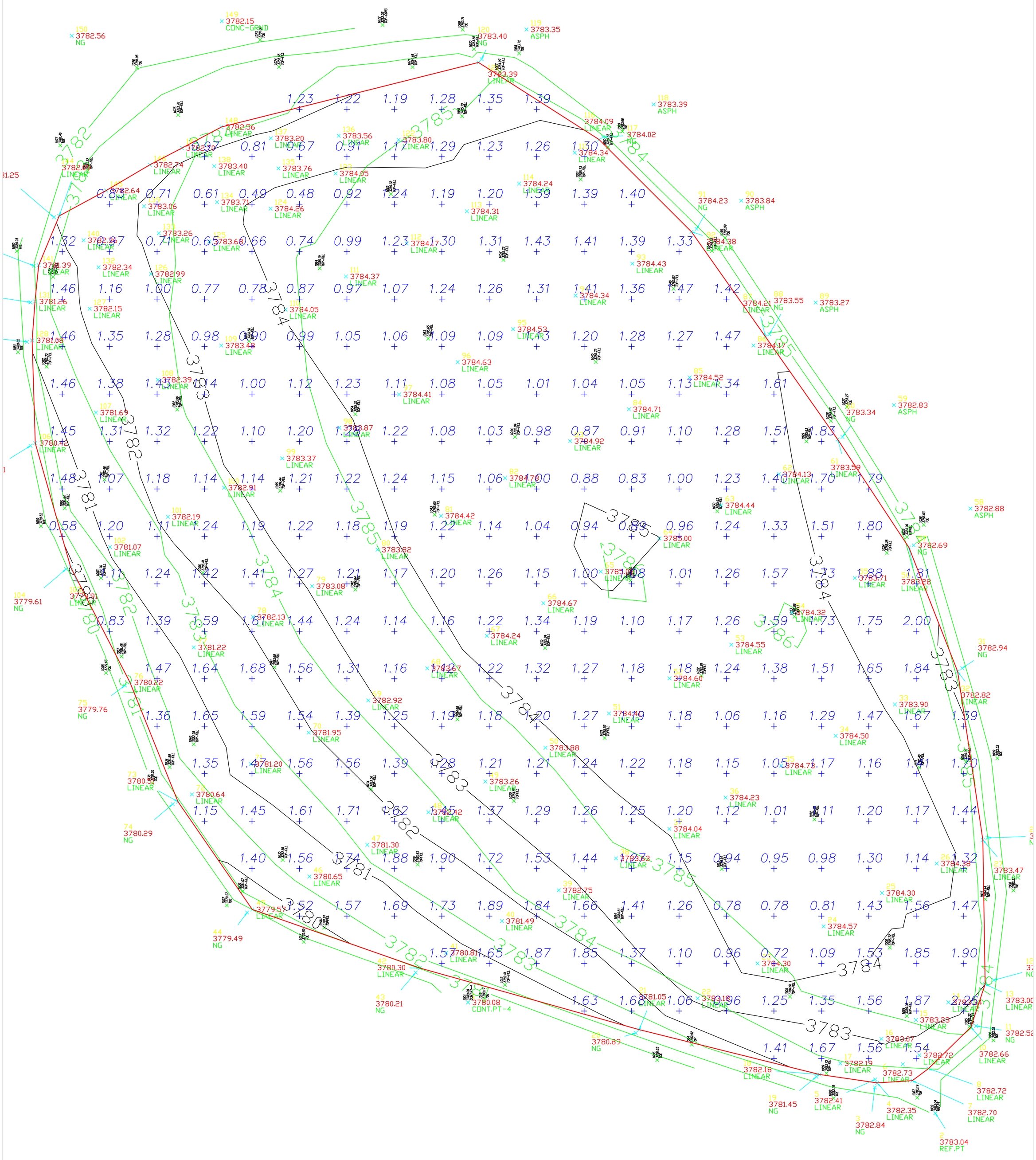
Appendix L As Built- Drawings – Category I Excavation and Landfills



LEGEND

- TOP OF SOIL COVER AS-BUILT CONTOURS
- TOP OF LINER AS-BUILT CONTOURS
- 1.42 SOIL COVER THICKNESS DELTA (FT) BETWEEN THE LINER SURFACE AND FINAL SOIL COVER GRADES (20'X20' SPACING)
- LIMIT OF LINER SURVEY DATA

1) THE INFORMATION PRESENTED HEREIN IS CONFIDENTIAL IN NATURE AND IS NOT TO BE REPRODUCED OR RE-USED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF ENTACT.

2) FINAL REPOSITORY AS-BUILT SURVEY DATA PROVIDED BY SURVEYOR ????.

DATE	BY	CHK'D	APR'D	REVISIONS	NO

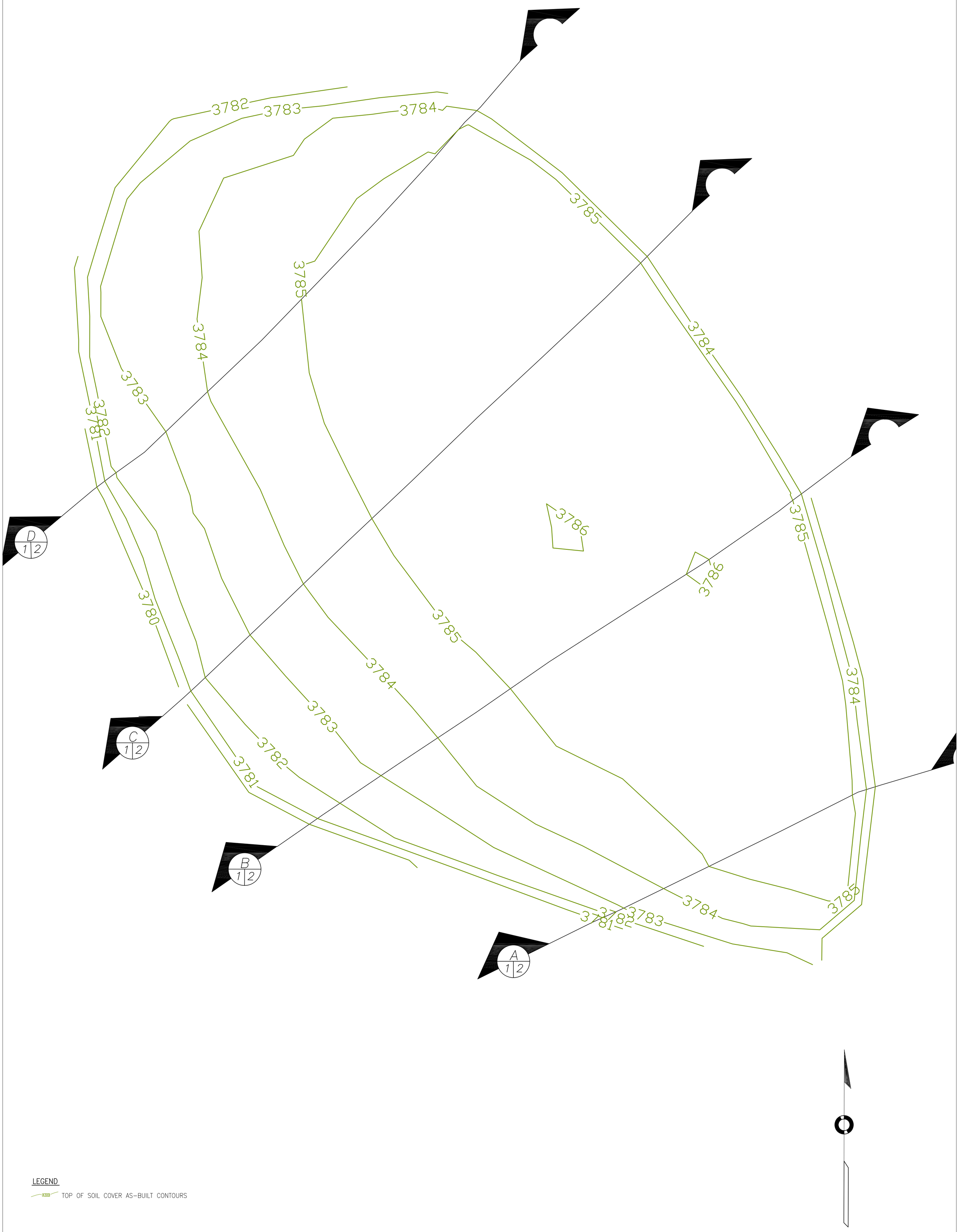
ENTACT & ASSOCIATES, LLC
1010 EXECUTIVE COURT, SUITE 280
WESTMONT, ILLINOIS 60559
P: 630-330-8237 F: 630-986-0653

ENTACT

ASARCO PLANT
EL PASO, TEXAS

FINAL AS-BUILT CONTOURS

DESIGNED BY		CHECKED BY	
DRAWN BY	MMC 3/19/07	APPROVED BY	
SCALE: NTS	PROJECT NO. --	DRAWING NO. 1	REVISION NO. ---



LEGEND

3500 TOP OF SOIL COVER AS-BUILT CONTOURS

1. THE INFORMATION PRESENTED HEREIN IS CONFIDENTIAL IN NATURE AND IS NOT TO BE REPRODUCED OR RE-USED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF ENTACT.

2. FINAL REPOSITORY AS-BUILT SURVEY DATA PROVIDED BY ENTACT SURVEYOR.

DATE	BY	CHK'D	APR'D	REVISIONS	NO

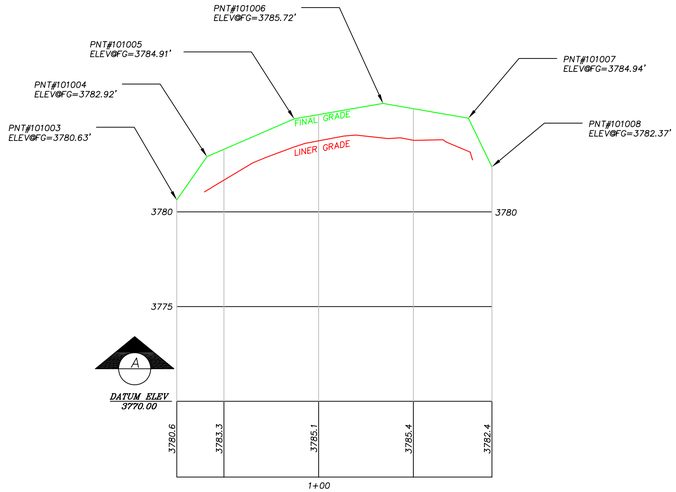
ENTACT & ASSOCIATES, LLC
1010 EXECUTIVE COURT, SUITE 280
WESTMONT, ILLINOIS 60559
P: 630-530-8237 F: 630-986-0653

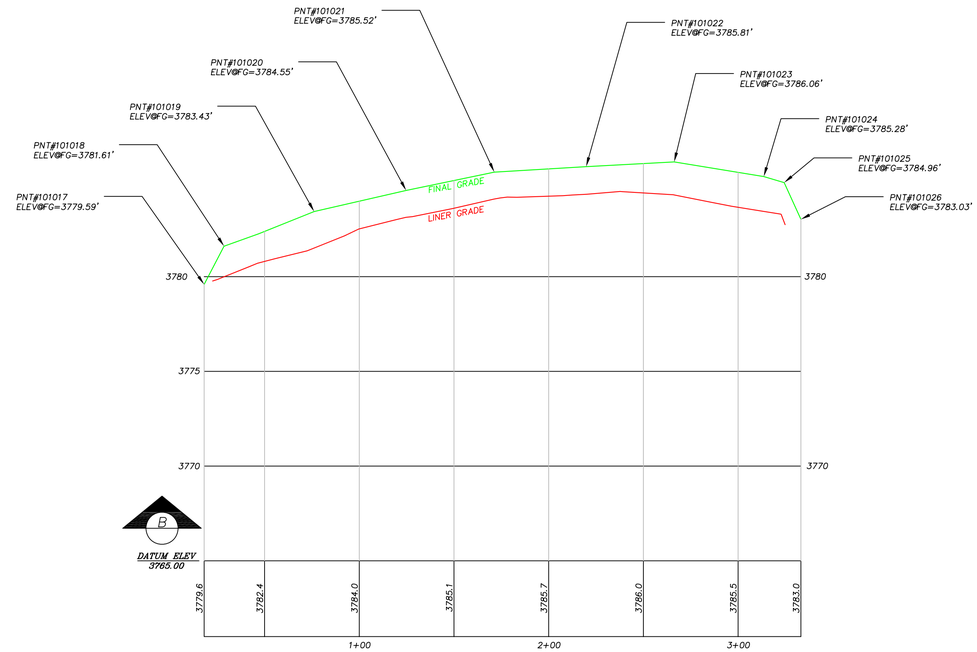
ENTACT

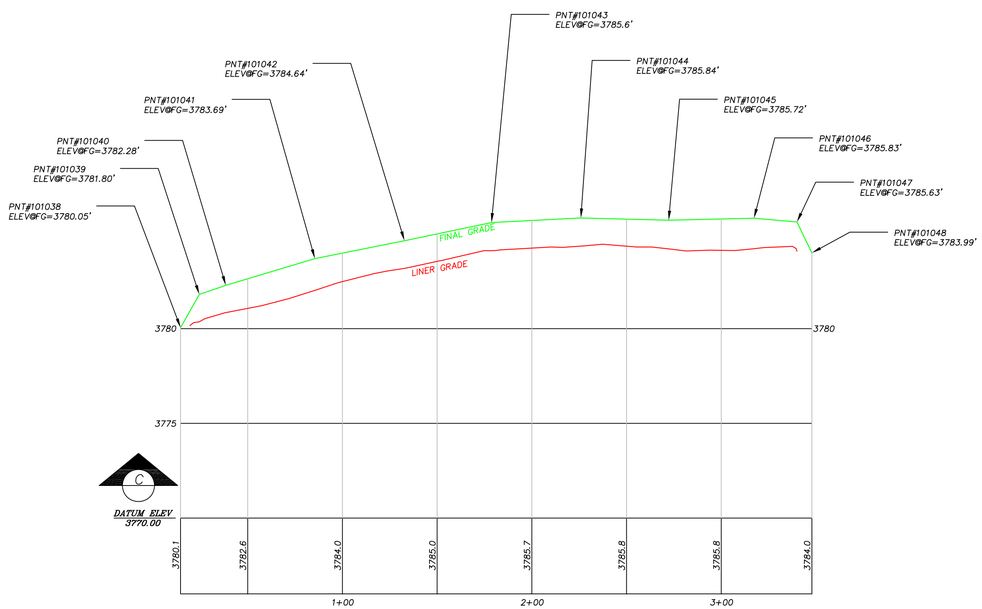
ASARCO PLANT
EL PASO, TEXAS

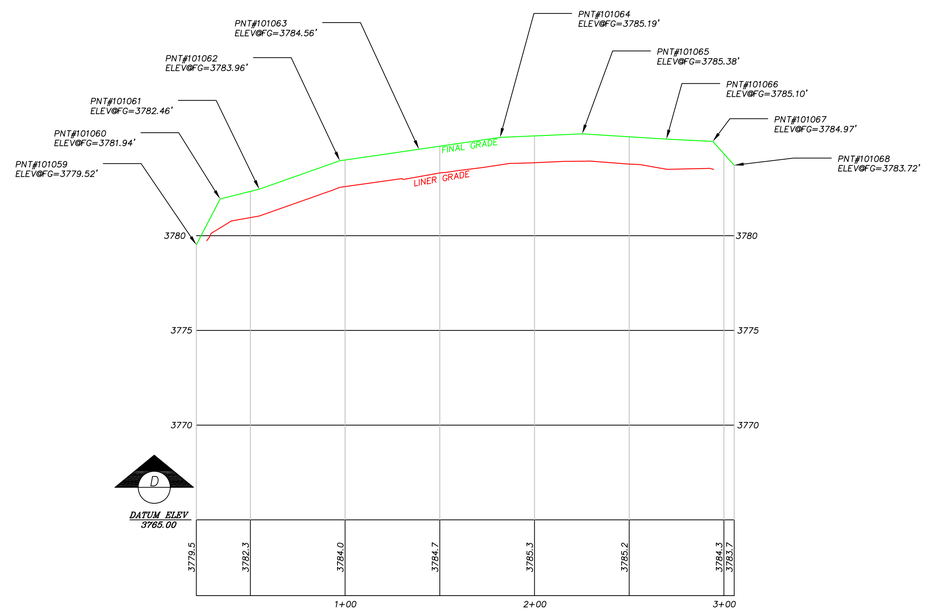
FINAL AS-BUILT CONTOURS

DESIGNED BY		CHECKED BY	
DRAWN BY	DM 3/19/07	APPROVED BY	
SCALE: 1" TO 25'	PROJECT NO. --	DRAWING NO. 1	REVISION NO. ---









1. THE INFORMATION PRESENTED HEREIN IS CONFIDENTIAL IN NATURE AND IS NOT TO BE REPRODUCED OR RE-USED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF ENTACT.
2. CROSS SECTION VERTICAL SCALE EXAGGERATED BY A FACTOR OF 10 FOR PRESENTATION.
3. FINAL REPOSITORY AS-BUILT SURVEY DATA PROVIDED BY ENTACT SURVEYOR

.

DATE	BY	CHK'D	APR'D	REVISIONS	NO.

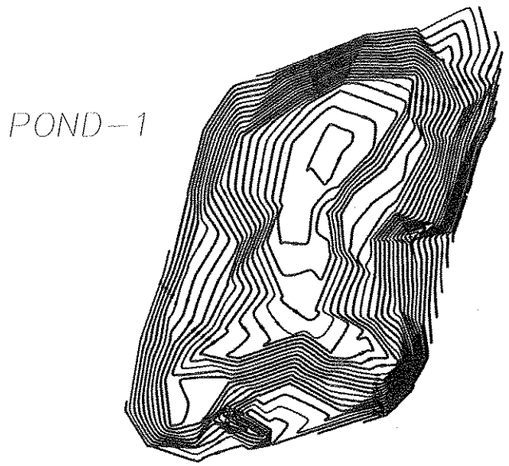
ENTACT & ASSOCIATES, LLC
1015 CIRCLEVIEW COURT SUITE 200
NEWBURY, LUBOC 80026
P: 630-330-8237 F: 630-986-0653

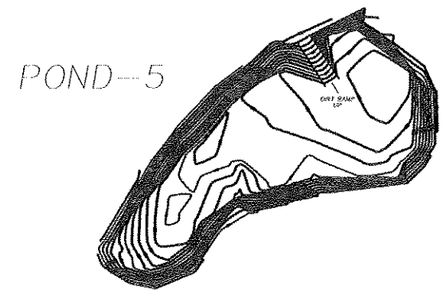
ENTACT

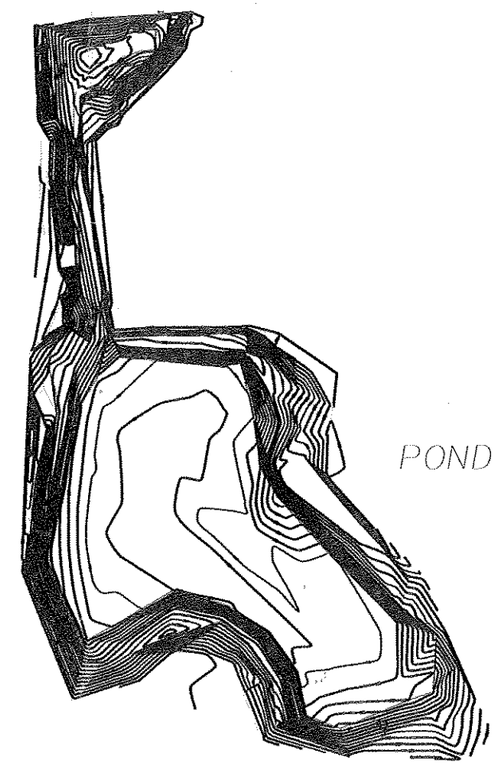
ASARCO PLANT
EL PASO, TEXAS

FINAL AS-BUILT CROSS SECTIONS

DESIGNED BY:		CHECKED BY:	
DRAWN BY: DM	3/19/07	APPROVED BY:	
SCALE: HZ = 1"40' V = 1"4'	PROJECT NO. --	DRAWING NO. 2	REVISION NO. ---







50 25 0 50
SCALE: 1"=50'

BENCHMARK:
EXISTING NGS STATION "UTEP"
ELEVATION 4056.63' (NAVD 88 DATUM)

THE DATUM IS BASED ON NAD 83, TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE; THE SPECIFIC POINT OF REFERENCE IS "NGS STATION "UTEP" N 10,661,744.856 FEET, EAST 378,139.576 FEET. ALL COORDINATES ARE SURFACE COORDINATES. TO CONVERT TO GRID MULTIPLY FOR A FACTOR OF 0.9999292; ALL BEARING ARE GRID, TO CONVERT TO GEODETIC NORTH, APPLY THETA ANGLE OF 3° 10' 48.3"
(NOTE: INFORMATION ACCORDING TO A FIELD SURVEY PERFORMED BY FRANK X. SPENDER AND ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS)

CERTIFICATION

I HEREBY CERTIFY THAT THE FOREGOING TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GUILLERMO LICON, R.P.L.S.
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS LICENSE NO. 2998

DATE: _____

STATE OF TEXAS
REGISTERED
GUILLERMO LICON
No. 2998
PROFESSIONAL
LAND SURVEYOR

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	DATE	REVISION DESCRIPTION	BY	DATE	REVISION DESCRIPTION	BY
△						
△						
△						
△						
△						
△						
△						
△						

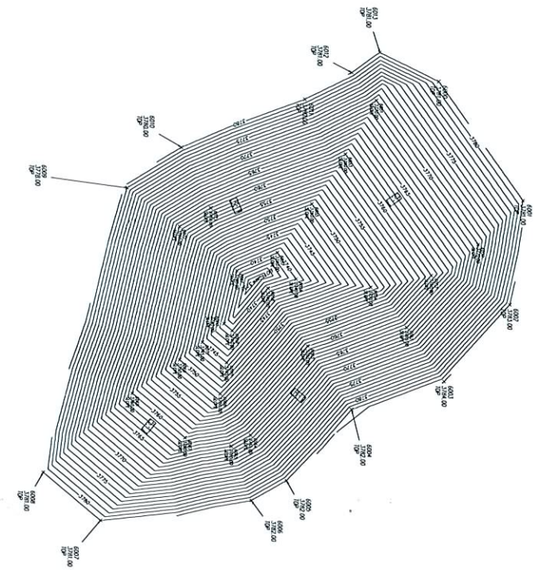
SCALE: 1"=50'
JOB No. 06-05-2341
FIELD BOOK 2005 - A
DESIGNED BY: --
COMP. BY: --
DRAWN BY: RJ/MN
CHECKED BY: AFV
DATE: 08/23/05
FILE: F:\Projects\ASARCO\Working\Asarco Ponds.dwg

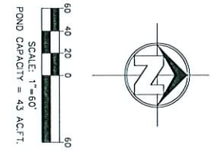
TOPOGRAPHIC SURVEY

ASARCO, INC., EL PASO PLANT
DETERMINED PONDING AREAS,
EL PASO, EL PASO COUNTY,
TEXAS.

SLI ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS
6600 WESTWIND DR. - EL PASO, TEXAS - 79912
(915) 584-4457 - FAX (915) 581-7756 - E-MAIL: sliengl@whc.net

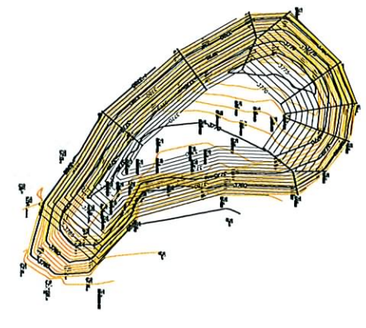
SLI

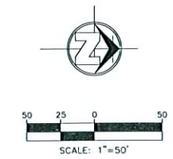




Stage (ft)	Area (sq.ft.)	Volume (cu.yds.)	Cum. Volume (cu.yds.)	Fill (cu.yds.)	Net (cu.yds.)
1234	1120	0	0	0	0
1235	1320	1	1	0	1
1236	1520	2	3	0	3
1237	1720	3	6	0	6
1238	1920	4	10	0	10
1239	2120	5	15	0	15
1240	2320	6	21	0	21
1241	2520	7	28	0	28
1242	2720	8	36	0	36
1243	2920	9	45	0	45
1244	3120	10	55	0	55
1245	3320	11	66	0	66
1246	3520	12	78	0	78
1247	3720	13	91	0	91
1248	3920	14	105	0	105
1249	4120	15	120	0	120
1250	4320	16	136	0	136
1251	4520	17	153	0	153
1252	4720	18	171	0	171
1253	4920	19	190	0	190
1254	5120	20	210	0	210
1255	5320	21	231	0	231
1256	5520	22	253	0	253
1257	5720	23	276	0	276
1258	5920	24	300	0	300
1259	6120	25	325	0	325
1260	6320	26	351	0	351
1261	6520	27	378	0	378
1262	6720	28	406	0	406
1263	6920	29	435	0	435
1264	7120	30	465	0	465
1265	7320	31	496	0	496
1266	7520	32	528	0	528
1267	7720	33	561	0	561
1268	7920	34	595	0	595
1269	8120	35	630	0	630
1270	8320	36	666	0	666
1271	8520	37	703	0	703
1272	8720	38	741	0	741
1273	8920	39	780	0	780
1274	9120	40	820	0	820
1275	9320	41	861	0	861
1276	9520	42	903	0	903
1277	9720	43	946	0	946
1278	9920	44	990	0	990
1279	10120	45	1035	0	1035
1280	10320	46	1081	0	1081
1281	10520	47	1128	0	1128
1282	10720	48	1176	0	1176
1283	10920	49	1225	0	1225
1284	11120	50	1275	0	1275
1285	11320	51	1326	0	1326
1286	11520	52	1378	0	1378
1287	11720	53	1431	0	1431
1288	11920	54	1485	0	1485
1289	12120	55	1540	0	1540
1290	12320	56	1596	0	1596
1291	12520	57	1653	0	1653
1292	12720	58	1711	0	1711
1293	12920	59	1770	0	1770
1294	13120	60	1830	0	1830

Site Volume Table Calculations
Stage Surface Area Curve
POND 1 VOL. Pond 1 Volumes.dwg Pond 2 Volumes.dwg Pond 3 Volumes.dwg Pond 4 Volumes.dwg Pond 5 Volumes.dwg





BENCHMARK:
EXISTING NGS STATION "UTEP"
ELEVATION: 4058.63 (NAVD 88 DATUM)

THE DATUM IS BASED ON NAD 83, TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE; THE SPECIFIC POINT OF REFERENCE IS "NGS STATION "UTEP" N 10,651,744.866 FEET, EAST 379,139.576 FEET. ALL COORDINATES ARE SURFACE COORDINATES. TO CONVERT TO GRID MULTIPLY FOR A FACTOR OF 0.999796292. ALL BEARING ARE GRID. TO CONVERT TO GEODETIC NORTH, APPLY THETA ANGLE OF 3° 10' 46.3" (NOTE: INFORMATION ACCORDING TO A FIELD SURVEY PERFORMED BY FRANK X. SPENCER AND ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS)

CERTIFICATION

I HEREBY CERTIFY THAT THE FOREGOING TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GUILLERMO LICON, R.P.L.S.
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS LICENSE NO. 2998

DATE: _____

STATE OF TEXAS
REGISTERED
GUILLERMO LICON
2998
PROFESSIONAL
LAND SURVEYOR

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	DATE	REVISION DESCRIPTION	BY	DATE	REVISION DESCRIPTION	BY
1	3/31/06	POND 5 TOPO UPDATE	MN			
2						
3						
4						
5						
6						
7						

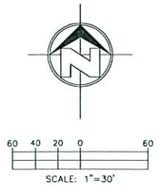
SCALE: 1"=50'
JOB No. 06-05-2341
FIELD BOOK 2005 - A
DESIGNED BY: --
COMP. BY: --
DRAWN BY: RJ/MN
CHECKED BY: AFV
DATE: 08/23/05
FILE: F:\Projects\ASARCO\Working\Asarco-Ponds.dwg

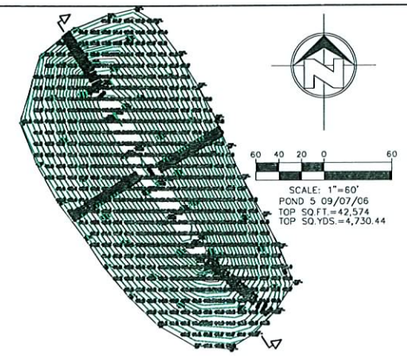
TOPOGRAPHIC SURVEY

ASARCO, INC., EL PASO PLANT
DETERMINED PONDING AREAS,
EL PASO, EL PASO COUNTY,
TEXAS.

SLI ENGINEERING, INC.
CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS
6600 WESTWIND DR. - EL PASO, TEXAS - 79912
(915) 584-4457 - FAX (915) 581-7756 - E-MAIL: sileng@whc.net

SHEET 1 OF 1



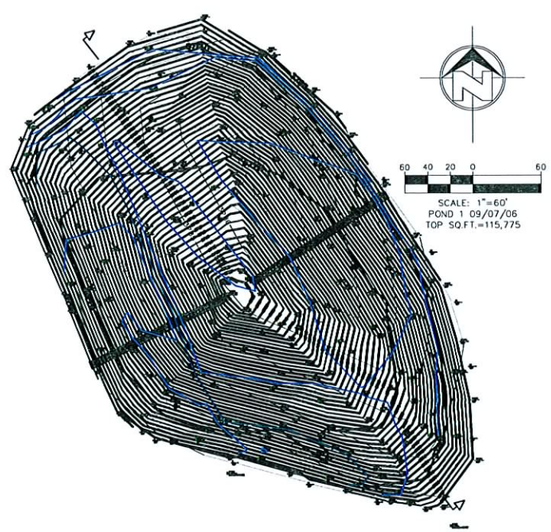


POND NO. 5 FINAL TOPO

POND NO. 1 FINAL TOPO

ASARCO 8-25-06
Site Volume Table Unadjusted

Site	Stratum	Surf1	Surf2	Cut Cuyds	Fill Cuyds	Net Cuyds	Method
POND-5	strat-8-25-06	plus-top-pnts-8-25-06	top	0	27,774	27,774 (Fill)	Grid



CERTIFICATION

I HEREBY CERTIFY THAT THE FOREGOING TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GUILLERMO LICON, R.P.L.S.
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS LICENSE NO. 2998

DATE: _____

BENCHMARK:
EXISTING NGS STATION "UTEP"
ELEVATION: 4056.63' (NAVD 88 DATUM)

THE DATUM IS BASED ON NAD 83, TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE; THE SPECIFIC POINT OF REFERENCE IS "NGS STATION "UTEP" N 10,651,744.866 FEET, EAST 379,139.576 FEET, ALL COORDINATES ARE SURFACE COORDINATES. TO CONVERT TO GRID MULTIPLY FOR A FACTOR OF 0.999796292; ALL BEARING ARE GRID, TO CONVERT TO GEODETIC NORTH, APPLY THETA ANGLE OF 3° 10' 46.3" (NOTE: INFORMATION ACCORDING TO A FIELD SURVEY PERFORMED BY FRANK X. SPENCER AND ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS)

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	DATE	REVISION DESCRIPTION	BY	DATE	REVISION DESCRIPTION	BY
1	3/31/06	POND 5 TOPO UPDATE	MN			
2						
3						
4						
5						
6						
7						
8						

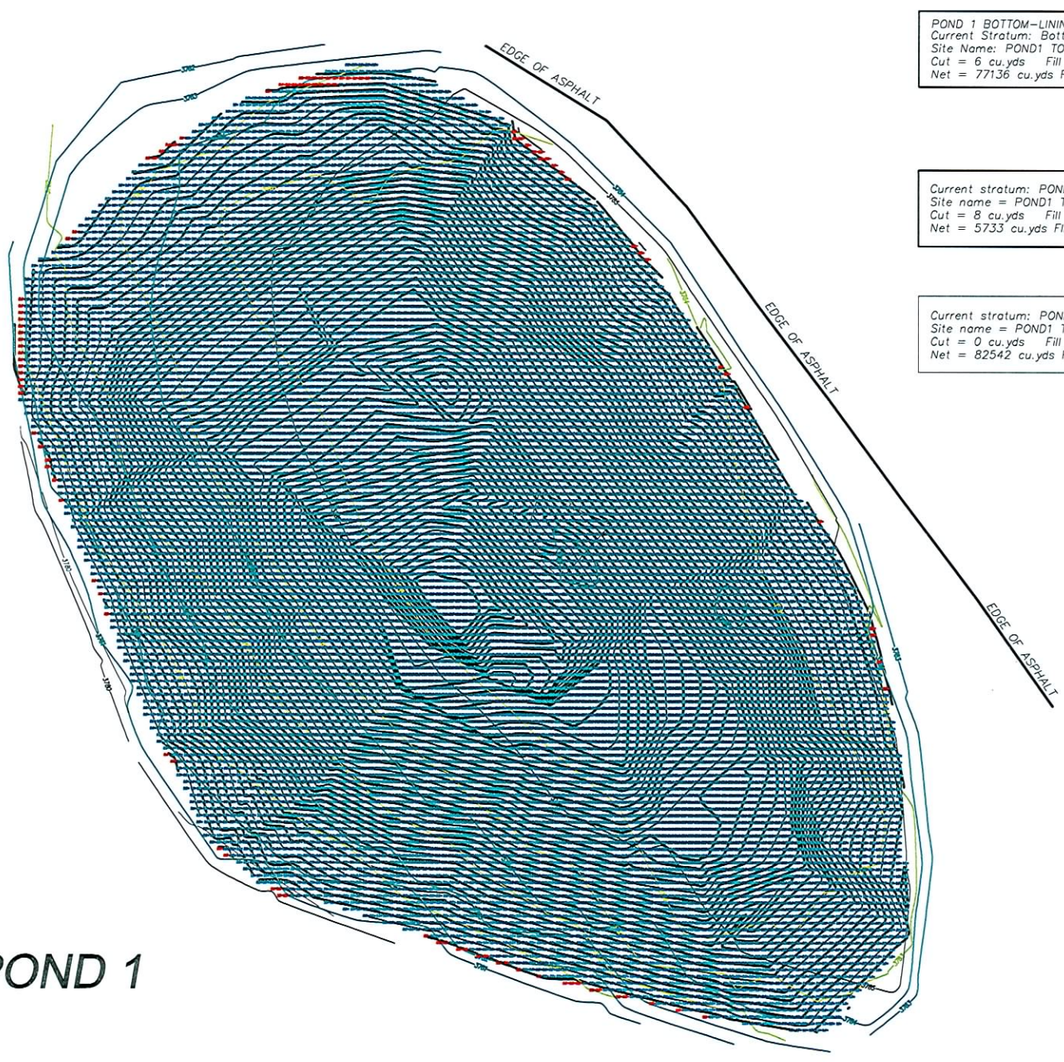
SCALE: 1"=60'
JOB No. 06-05-2341
FIELD BOOK 2005 - A
DESIGNED BY: --
COMP. BY: --
DRAWN BY: RJ/MN
CHECKED BY: AFV
DATE: 06/07/2006
FILE: F:\Projects\ASARCO\working\ Asarco-Ponds1&5.dwg

TOPOGRAPHIC SURVEY

ASARCO, INC., EL PASO PLANT
DETERMINED PONDING AREAS OF PONDS 1 AND 5,
EL PASO, EL PASO COUNTY,
TEXAS.

SLI ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS • LAND PLANNERS
6600 WESTWIND DR. – EL PASO, TEXAS – 79912
(915) 584-4457 – FAX (915) 581-7756 – E-MAIL: sleng@ahc.net

SHEET 1 OF 1

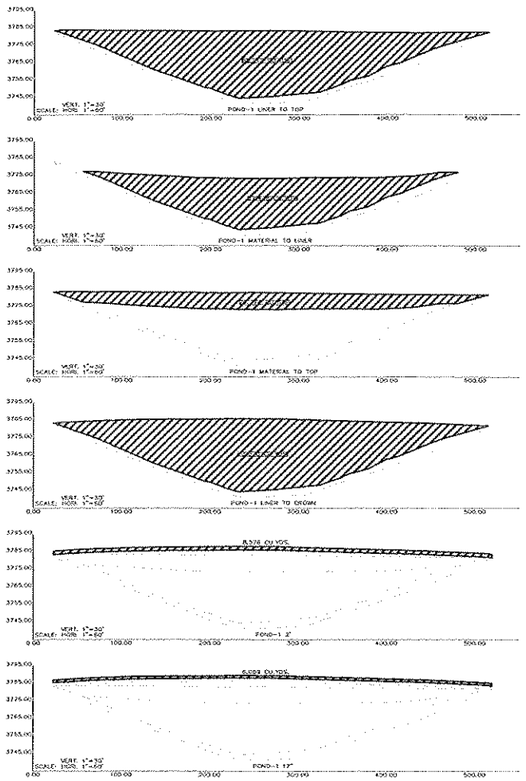


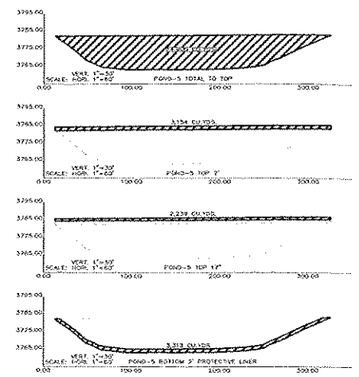
POND 1 BOTTOM-LINING VOLUME
Current Stratum: Bottom to Lining Vol.
Site Name: POND1 TOPO FINAL
Cut = 6 cu.yds Fill = 77142 cu.yds
Net = 77136 cu.yds FILL

Current stratum: POND 1 CAP
Site name = POND1 TOPO FINAL
Cut = 8 cu.yds Fill = 5742 cu.yds
Net = 5733 cu.yds FILL

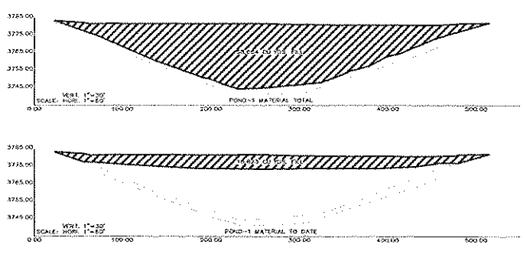
Current stratum: POND 1 TOT VOL
Site name = POND1 TOPOFINAL
Cut = 0 cu.yds Fill = 82542 cu.yds
Net = 82542 cu.yds FILL

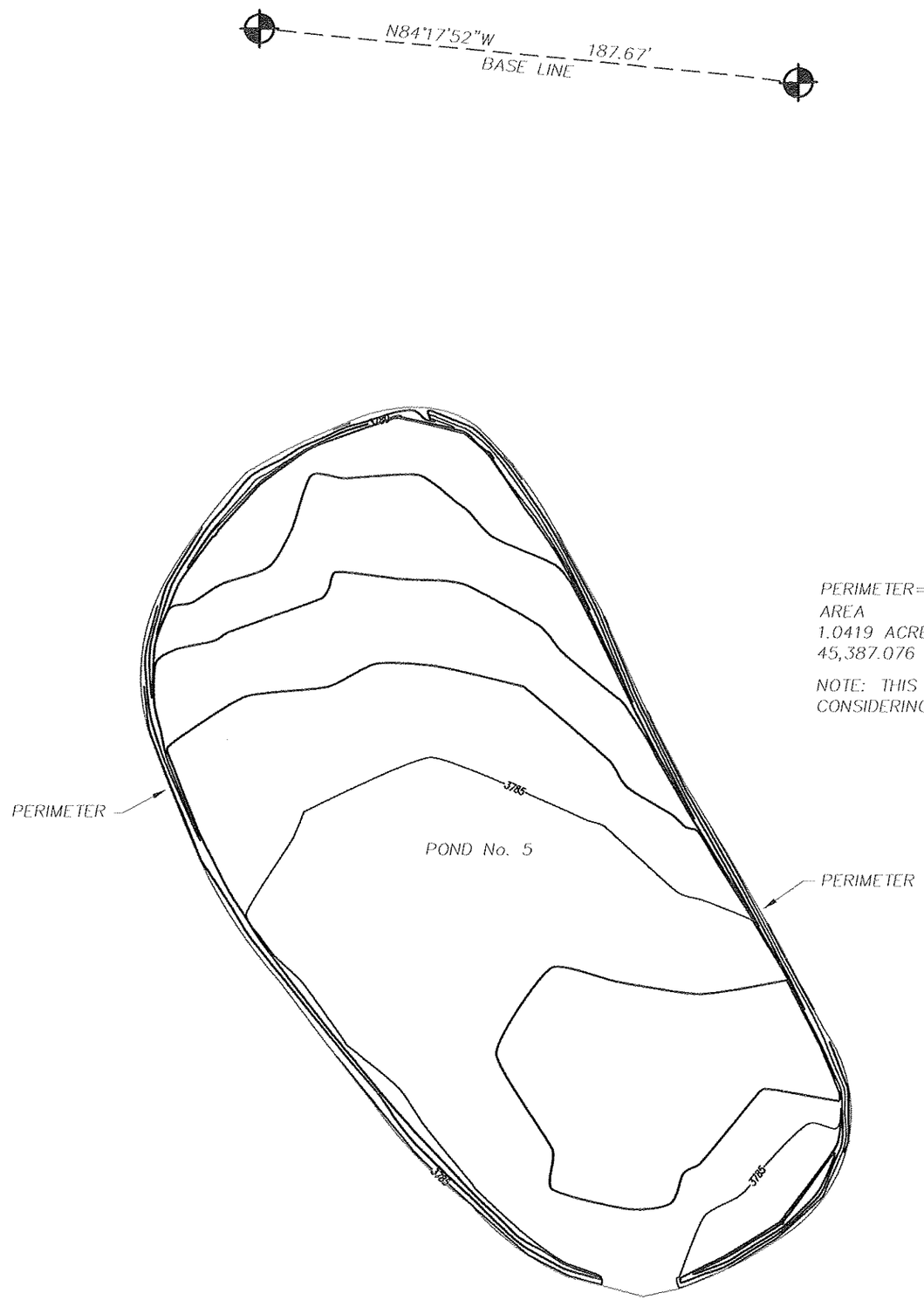
POND 1


POND-1 LINER TO TOP
POND-1 MATERIAL TO LINER
POND-1 MATERIAL TO TOP
POND-1 LINER TO CROWN
8,376 CU.YDS.
POND-1 2'
8,282 CU.YDS.
POND-1 17'
VERT. 1"=30'
SCALE: HORI. 1"=60'


POND-5 TOTAL TO TOP
3,134 CU.YDS.
POND-5 TOP 2'
2,239 CU.YDS.
POND-5 TOP 17'
3,313 CU.YDS.
POND-5 BOTTOM 2' PROTECTIVE LINER
VERT. 1"=30'
SCALE: HORI. 1"=60'

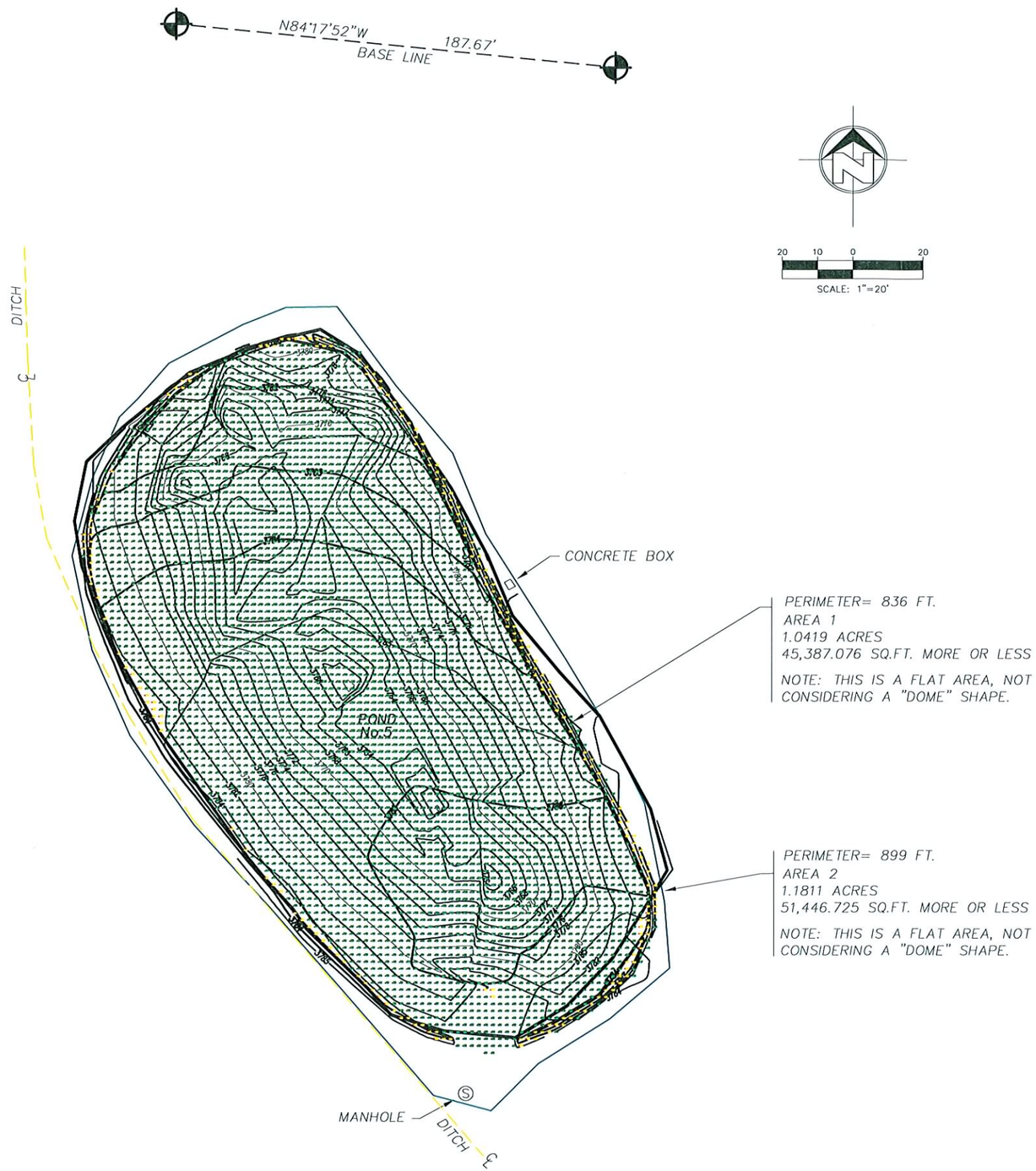
9/26/06


POND-1 MATERIAL TOTAL
POND-1 MATERIAL TO DATE
VERT. 1"=30'
SCALE: HORI. 1"=60'



PERIMETER=836 FT.
AREA
1.0419 ACRES
45,387.076 SQ.FT. MORE OR LESS

NOTE: THIS IS A FLAT AREA, NOT CONSIDERING A "DOME" SHAPE.



Site name: ASARCO POND 5 VOLUME REPORT. DECEMBER 11, 2007

Lower left X: 374541.750898 Y: 10664132.362645
Upper right X: 374834.750898 Y: 10664521.362645
Rotation angle: 0-00-00 M size: 1.000 N size: 1.000

Site Volume Table: Unadjusted

	Cut cu.yds	Fill cu.yds	Net cu.yds	Method
Site: ASARCO POND 5 VOL REPORT				
Stratum: Pond 5 Vol Liner & Top Soil	0	3299	3299 (F)	Grid
Pond 5 Topo-1				
Pond 5 Topo-2				

Site Volume Table: Unadjusted

	Cut cu.yds	Fill cu.yds	Net cu.yds	Method
Site: ASARCO POND 5 VOL REPORT				
Stratum: Pond 5 Previous Topo	0	16,201	16,201 (F)	Grid
Pond 5 Topo-1				
Pond 5 Topo-3				

CONCLUSION

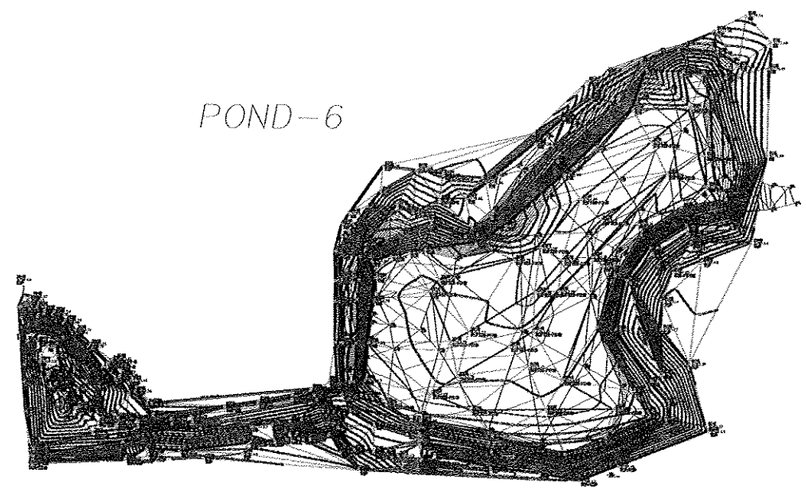
VOLUME OF POND 5 ON 2006= 16,201 Cubic Yards.
VOLUME OF LINER AND TOP SOIL= 3,299 Cubic Yards,
TOTAL VOLUME OF POND 5= 19,500 Cubic Yards, more or less.

LEGEND

— — — — — —	MJR CONTOUR TOPO 1
— — — — — —	MNR CONTOUR TOPO 1
— — — — — —	MJR CONTOUR TOPO 2 (TOP SOIL)
— — — — — —	MNR CONTOUR TOPO 2 (TOP SOIL)
+ 3.2	CUTS OR FILLS BETWEEN SURFACES

60 40 20 0 60

SCALE: 1"=60'



8-03-06
Site Volume Table (Incl.pgated)

Site	Stratum	Surf1	Surf2	Cut cu.yds	Fill cu.yds	Net cu.yds	Method
POND-6	8-03-06	pond-1	pond-6-8-03-06	12,259	17	12,243 (CUT)	Grid

BENCHMARK:
EXISTING NGS STATION "UTEP"
ELEVATION: 4058.63' (NAVD 88 DATUM)

THE DATUM IS BASED ON NAD 83, TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE; THE SPECIFIC POINT OF REFERENCE IS "NGS STATION "UTEP" N 10,661,744.885 FEET, EAST 378,139.576 FEET. ALL COORDINATES ARE SURFACE COORDINATES. TO CONVERT TO GRID MULTIPLY FOR A FACTOR OF 0.999795292; ALL BEARING ARE GRID, TO CONVERT TO GEODETIC NORTH, APPLY THETA ANGLE OF 3° 10' 46.3"
(NOTE: INFORMATION ACCORDING TO A FIELD SURVEY PERFORMED BY FRANK X. SPENCER AND ASSOCIATES, INC. CONSULTING CIVIL ENGINEERS)

CERTIFICATION

I HEREBY CERTIFY THAT THE FOREGOING TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

GUILLERMO LICON, R.P.L.S.
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS LICENSE NO. 2998

DATE: .....

STATE OF TEXAS REGISTERED GUILLERMO LICON 2998 PROFESSIONAL LAND SURVEYOR

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This map and survey are being provided solely for the use of ASARCO INC. and no license has been created, expressed or implied, to copy the surveys and/or map(s) except as necessary in conjunction with the original transaction. This transaction shall be effective within six (6) months from the date hereon August 23, 2005.

	DATE	REVISION DESCRIPTION	BY	DATE	REVISION DESCRIPTION	BY
1	3/31/06	POND 5 TOPO UPDATE	MN			
2						
3						
4						
5						
6						
7						

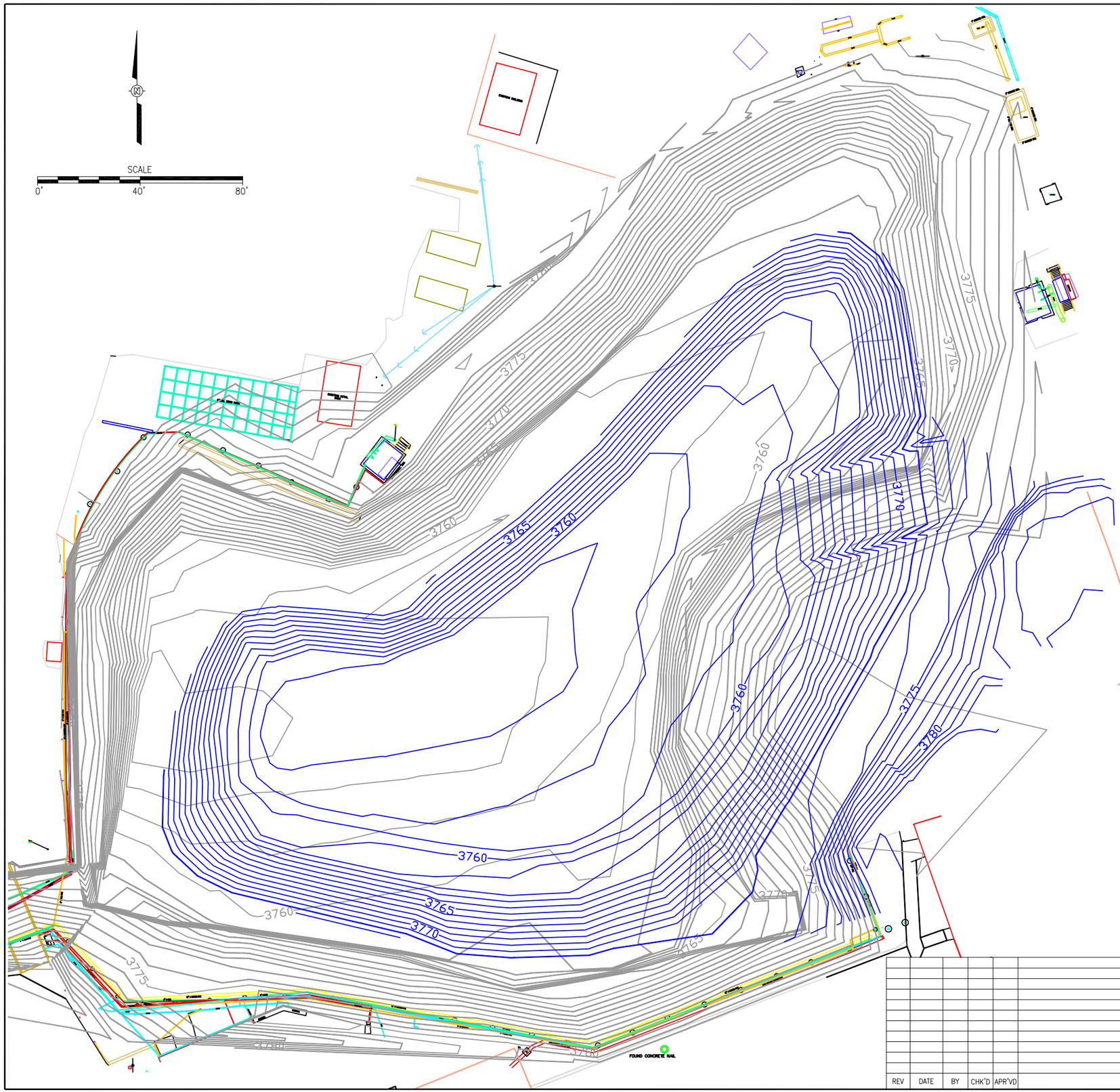
SCALE: 1"=50'
JOB No. 06-05-2341
FIELD BOOK 2005 - A
DESIGNED BY: --
COMP. BY: --
DRAWN BY: RJ/MN
CHECKED BY: AFV
DATE: 08/23/05
FILE: F:\Projects\ASARCO\Working\Asarco-Ponds.dwg

TOPOGRAPHIC SURVEY

ASARCO, INC., EL PASO PLANT
DETERMINED PONDING AREAS,
EL PASO, EL PASO COUNTY,
TEXAS.

SLI ENGINEERING, INC.
CIVIL ENGINEERS * LAND SURVEYORS * LAND PLANNERS
6800 WESTWIND DR. - EL PASO, TEXAS - 79912
(915) 584-4457 - FAX (915) 581-7756 - E-MAIL: sleng@elpc.net

SHEET 1 OF 1



LEGEND:

EXISTING GRADE CONTOUR — 1765

1-23-08 AS-BUILT SURVEY COUNTOUR — 50

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION

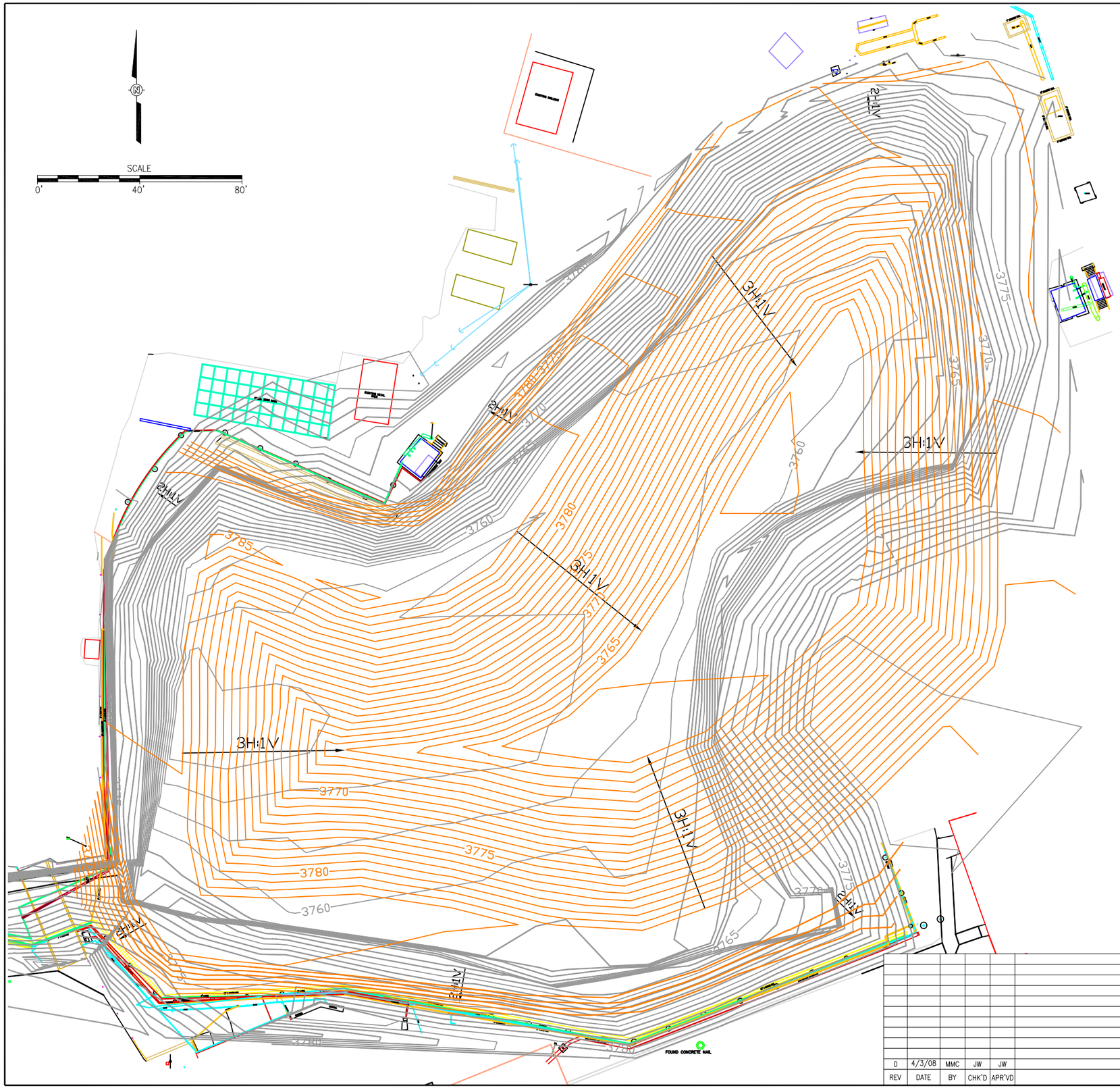
ENTACT

699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 1
POND 6 JANUARY INVOICE SURVEY BACKUP

PROJECT NAME & LOCATION: ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

DESIGNED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	1
DATE	2-8-08	DATE	2-8-08	SHEET NO.
PROJECT NO.	D7024	DRAWING NO.	C-D7024-001	1 OF 1



LEGEND:

EXISTING GRADE CONTOUR — 1765

SUBGRADE AS-BUILT CONTOUR — 50

SURFACE PREP AREA (99,826.36 SQFT)

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
TOTAL VOLUME REQUIRED TO ACHIEVE AS-BUILT SUBGRADE ELEVATIONS	4,130	39,246	35,116

NOTES:

AS-BUILT SUBGRADE SURVEY DATA PROVIDED TO ENTACT FROM SURVEYING SUBCONTRACTOR.

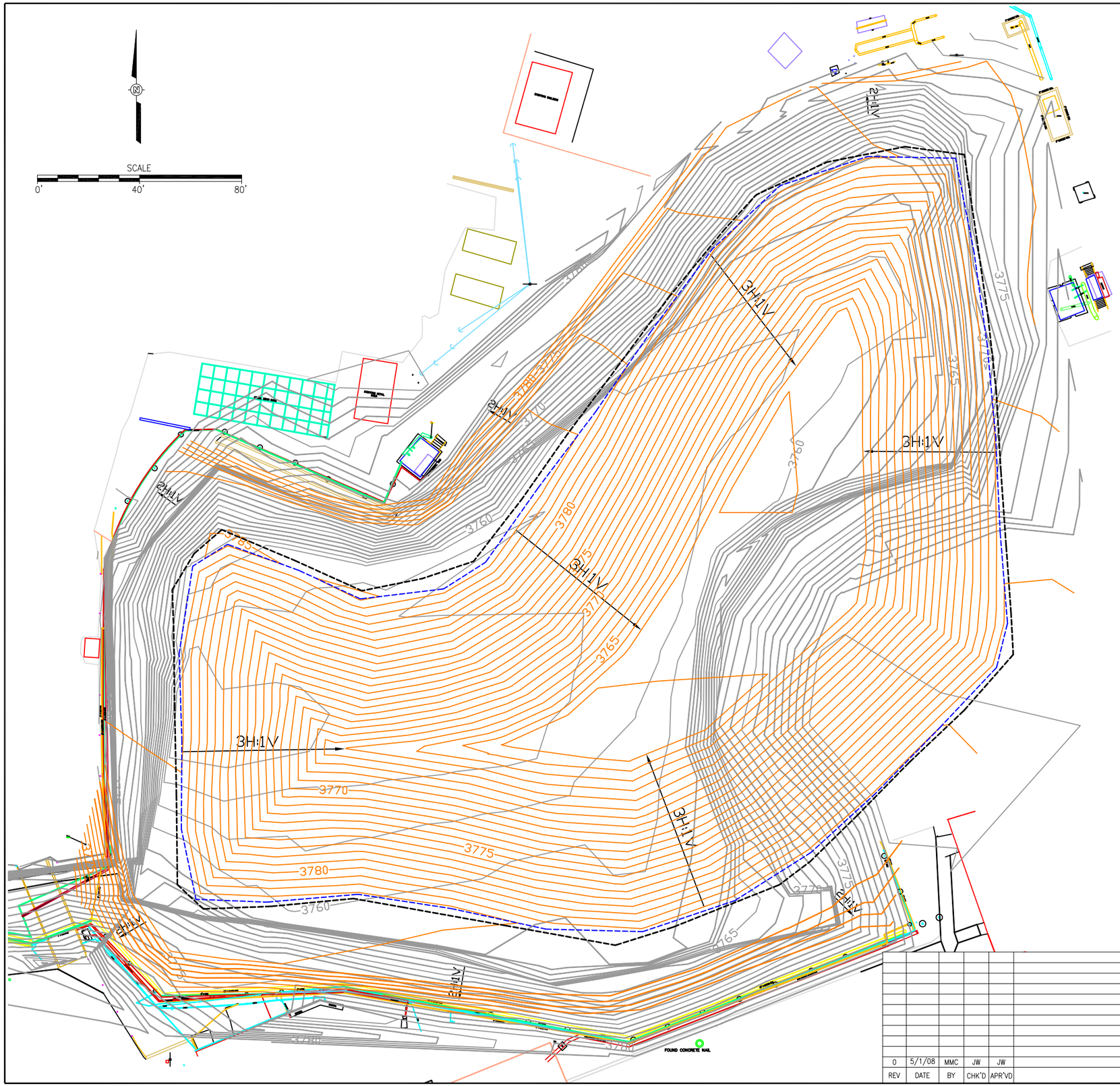
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
0	4/3/08	MMC	JW	JW	ISSUED AS INVOICE BACKUP

ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 1
POND 6 AS-BUILT SUBGRADE GRADING VOLUME ANALYSIS

PROJECT NAME & LOCATION: ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

PREPARED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	0
DATE	4-3-08	DATE	4-3-08	SHEET NO.
PROJECT NO.	D7024	DRAWING NO.	C-D7024-007	1 OF 1



LEGEND:

EXISTING GRADE CONTOUR	1765
SUBGRADE AS-BUILT CONTOUR	50
AS-BUILT ANCHOR TRENCH CENTERLINE (68,706 SQ.FT.)	
2FT PROCOVER PLACEMENT LIMIT	

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
2FT PRO-COVER AS-BUILT VOLUME	0	4,642	4,642

NOTES:

AS-BUILT SUBGRADE SURVEY DATA PROVIDED TO ENTACT FROM SURVEYING SUBCONTRACTOR.

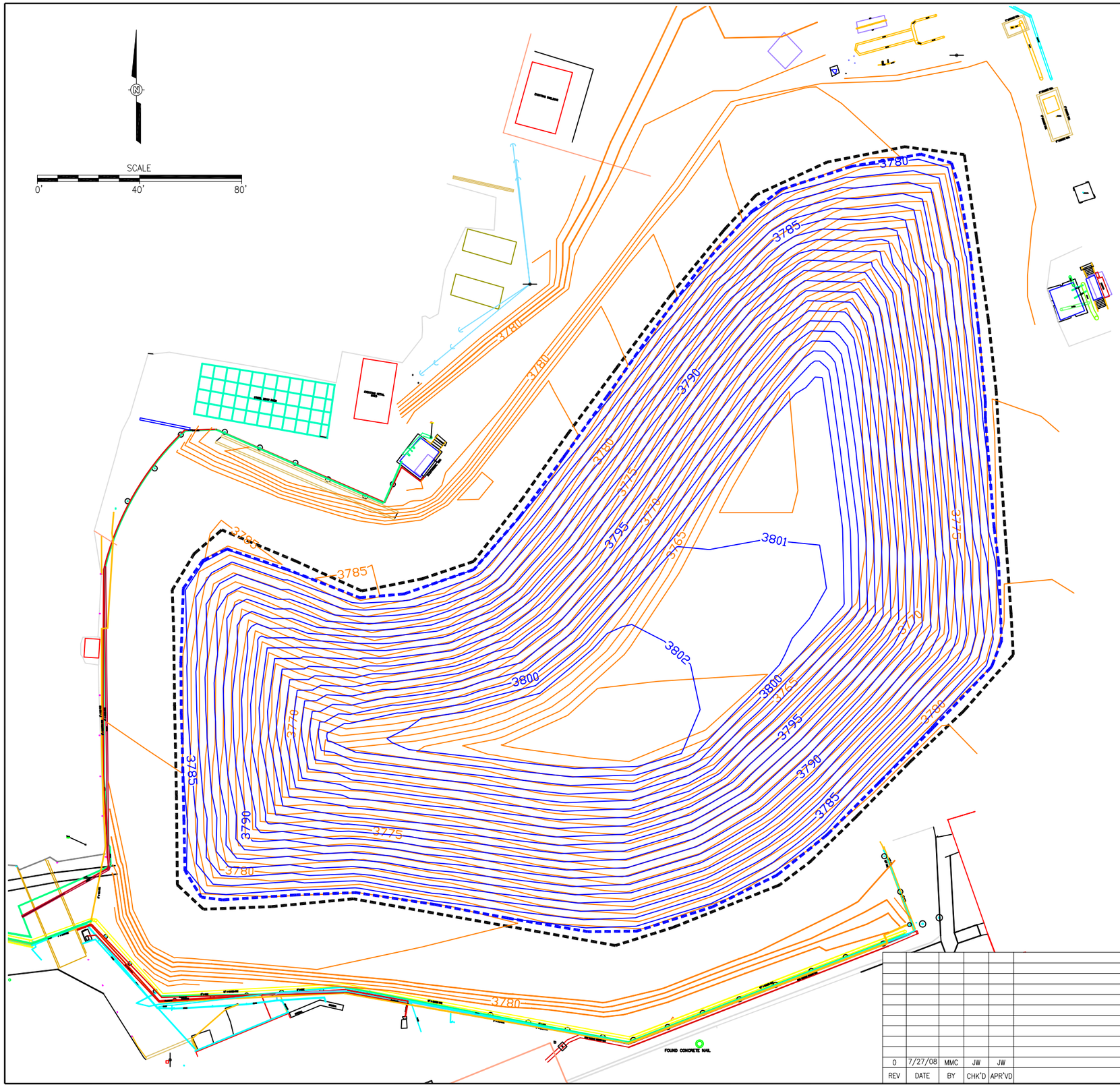
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
0	5/1/08	MMC	JW	JW	ISSUED AS INVOICE BACKUP

ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 1
POND 6 AS-BUILT BOTTOM LINER & 2FT PROCOVER VOLUME ANALYSIS

PROJECT NAME & LOCATION: ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

PREPARED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	0
DATE	5-1-08	DATE	5-1-08	SHEET NO.
PROJECT NO.	D7024	DRAWING NO.	C-D7024-008	1 OF 1



LEGEND:

EXISTING GRADE CONTOUR	1765
SUBGRADE AS-BUILT CONTOUR	50
AS-BUILT ANCHOR TRENCH CENTERLINE (68,706 SQ.FT.)	
2FT INTERMEDIATE LAYER LIMIT	

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
TOTAL CONSOLIDATED WASTE VOLUME (VOLUME EXCLUDES BOTH THE 2FT PRO COVER AND INTERMEDIATE LAYER VOLUMES)	0	36,510	36,510
2FT INTERMEDIATE LAYER AS-BUILT VOLUME	0	4,531	4,642

NOTES:

AS-BUILT SURVEY DATA PROVIDED TO ENTACT FROM SURVEYING SUBCONTRACTOR.

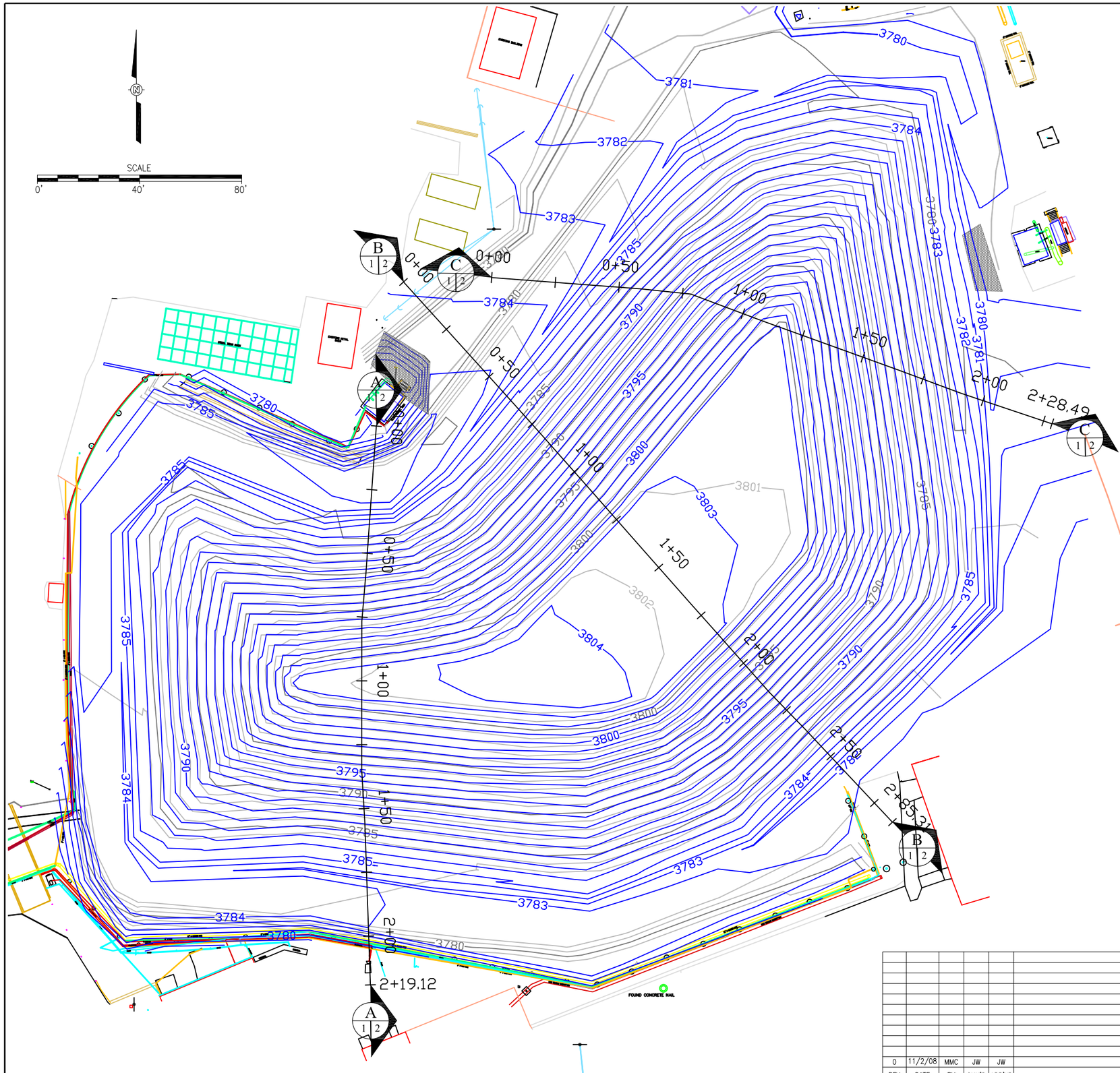
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
0	7/27/08	MMC	JW	JW	ISSUED AS INVOICE BACKUP

ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 1
POND 6 AS-BUILT WASTE CONSOLIDATION AND 2 FT INTERMEDIATE LAYER VOLUME ANALYSIS

PROJECT NAME & LOCATION: ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

PREPARED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	0
DATE	7-27-08	DATE	7-27-08	SHEET NO.
PROJECT NO.	D7024	DRAWING NO.	C-D7024-008	1 OF 1



LEGEND:

EXISTING GRADE AND SUBGRADE/INTERMEDIATE COVER AS-BUILT CONTOUR — 1765

FINAL COVER SOIL AS-BUILT CONTOUR — 50

RIP RAP ROCK PLACEMENT AREAS

VOLUME REPORT:

STRATUM	CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
TOTAL COVER SOIL VOLUME	0	7,465	7,465

NOTES:

AS-BUILT SURVEY DATA PROVIDED TO ENTACT FROM SURVEYING SUBCONTRACTOR.

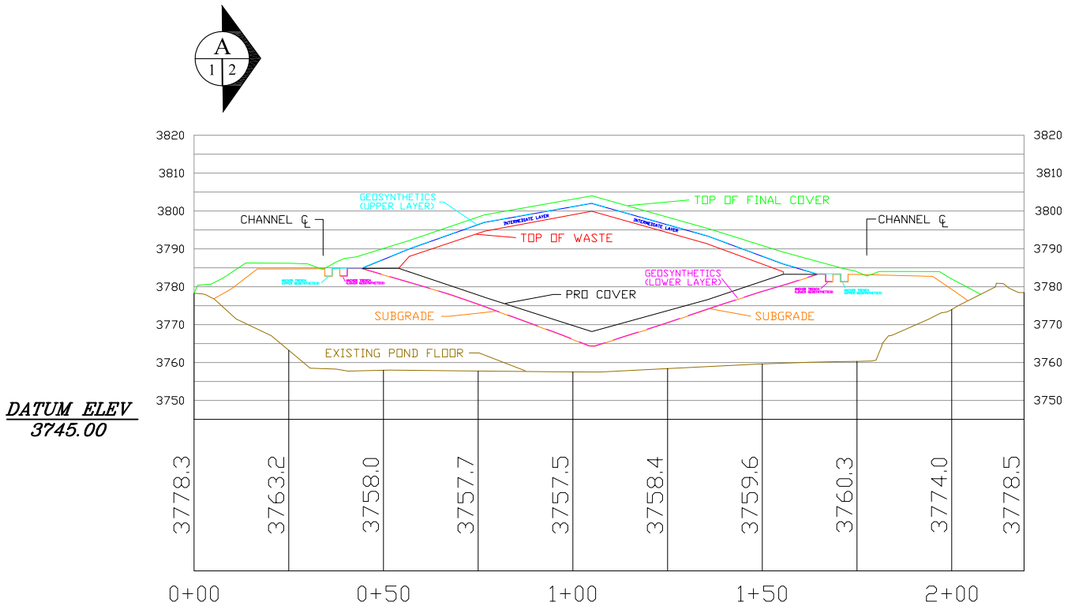
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
0	11/2/08	MMC	JW	JW	ISSUED AS INVOICE BACKUP

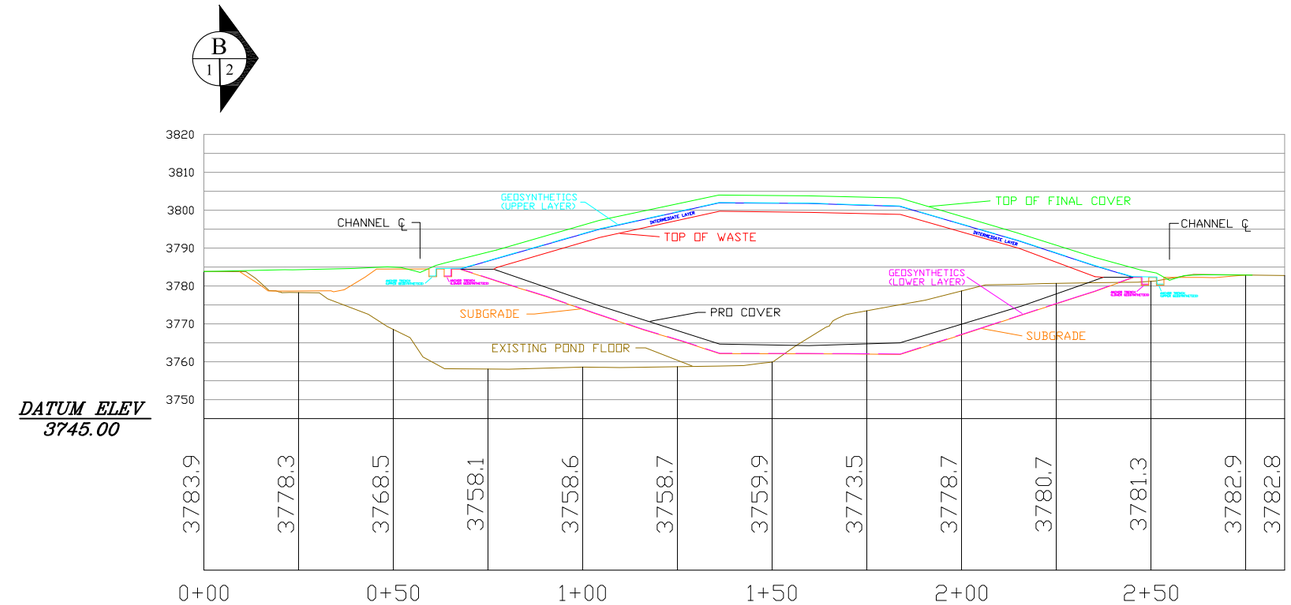
ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

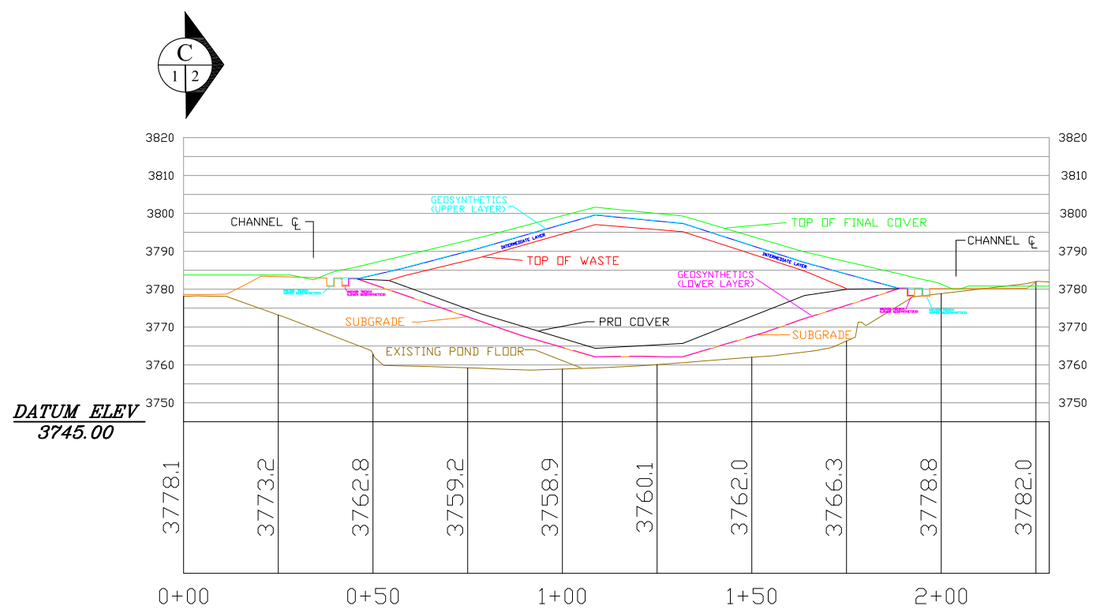
DRAWING NAME: DRAWING 1
POND 6 AS-BUILT FINAL COVER LAYER VOLUME ANALYSIS

PROJECT NAME & LOCATION: ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

PREPARED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	0
DATE	11-2-08	DATE	11-2-08	SHEET NO.
PROJECT NO.	D7024	DRAWING NO.	C-D7024-008	1 OF 2







HORIZONTAL = VERTICAL SCALE

0' 50' 100'

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION
0	11/2/08	MMC	JW	JW	ISSUED AS INVOICE BACKUP

ENTACT
699 South Friendswood Dr., Suite 101
Friendswood, Texas 77546
P: 281-996-9892

DRAWING NAME: DRAWING 2
POND 6 AS-BUILT FINAL CROSS SECTIONS

PROJECT NAME & LOCATION: ASARCO, INC EL PASO FACILITY
EL PASO, TEXAS

PREPARED BY	M. CARLSON	CHECKED BY	J. WESCOTT	REVISION
DRAWN BY	M. CARLSON	APPROVED BY	J. WESCOTT	0
DATE	11-2-08	DATE	11-2-08	SHEET NO.
PROJECT NO.	D7024	DRAWING NO.	C-D7024-008	2 OF 2