Table 1. Encycle Perimeter Air Sample Analytical Results, Encycle/Texas, Inc., Corpus Christi, Texas

Sample ID	Sample Date	Figure 1 Sample ID[a]	Wind Direction	Wind Speed (MPH)[b]	Analytical Results (mg/m^3) Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Selenium	Silver	Zinc
Upwind 1-6-11	1/6/11	A	NNE	1.6-2.5	<0.00833	<0.00833	<0.00167	<0.0000833	<0.00833	<0.00167	<0.00104	<0.00167	<0.0000723	<0.00833	<0.000833	<0.00833
Downwind 1-6-11	1/6/11	1	NNE	1.6-2.5	<0.00833	<0.00833	<0.00167	<0.0000833	<0.00833	<0.00167	<0.00104	<0.00167	<0.0000723	<0.00833	<0.000833	<0.00833
Upwind 1-11-11	1/11/11	B	N	6-6.3	<0.00833	<0.00833	<0.00167	<0.0000833	<0.00833	<0.00167	<0.00104	<0.00167	<0.0000723	<0.00833	<0.000833	<0.00833
Downwind 1-11-11	1/11/11	2	N	6-6.3	<0.00833	<0.00833	<0.00167	<0.0000833	<0.00833	<0.00167	<0.00104	<0.00167	<0.0000723	<0.00833	<0.000833	<0.00833
Upwind 1-21-11	1/21/11	C	N	3.8-4.1	<0.00833	<0.00833	<0.00167	<0.0000833	<0.00833	<0.00167	<0.00104	<0.00167	<0.000868	<0.00833	<0.000833	<0.00833
Downwind 1-21-11	1/21/11	3	N	3.8-4.1	<0.00833	<0.00833	<0.00167	<0.0000833	<0.00833	<0.00167	<0.00104	<0.00167	<0.000868	<0.00833	<0.000833	<0.00833
Upwind 2-1-11	2/1/11	D	N	13.8-19.6	<0.00025	<0.0000833	0.00108	<0.0000833	<0.00417	<0.000167	<0.0000833	0.000133	<0.000868	<0.000167	<0.0000833	<0.000833
Downwind 2-1-11	2/1/11	4	N	13.8-19.6	<0.00025	<0.0000833	0.000115	<0.0000833	<0.00417	<0.000167	<0.0000833	<0.0000833	<0.000868	<0.000167	<0.0000833	<0.000833
Upwind 4-13-11	4/13/11	E	SE	3.6	<0.0000781	<0.000026	0.0000929	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 4-13-11	4/13/11	5	SE	3.6	<0.0000781	<0.000026	0.0000484	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 4-15-11	4/15/11	F	NW	1.0	<0.0000781	<0.000026	0.000170	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000396	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 4-15-11	4/15/11	6	NW	1.0	<0.0000781	<0.000026	0.000163	<0.000026	<0.0013	<0.0000521	0.0000355	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 4-19-11	4/19/11	G	SE	12.0	<0.0000781	<0.000026	0.0000818	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 4-19-11	4/19/11	7	SE	12.0	<0.0000781	<0.000026	0.0000955	<0.000026	<0.0013	<0.0000521	0.0000509	0.0000305	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 4-22-11	4/22/11	H	SE	8.5	<0.0000781	<0.000026	0.000260	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 4-22-11	4/22/11	8	SE	8.5	<0.0000781	<0.000026	0.000128	<0.000026	<0.0013	<0.0000521	0.0000465	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 4-27-11	4/27/11	I	NW	<1	<0.0000781	<0.000026	0.000341	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000379	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 4-27-11	4/27/11	9	NW	<1	<0.0000781	<0.000026	0.000343	<0.000026	<0.0013	<0.0000521	0.0000663	<0.000026	<0.000234	<0.0000521	<0.000026	0.00163
Upwind 4-28-11	4/28/11	J	NE	3.6	<0.0000781	<0.000026	0.000107	<0.000026	<0.0013	0.0000953	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 4-28-11	4/28/11	10	NE	3.6	<0.0000781	<0.000026	0.000143	<0.000026	<0.0013	<0.0000521	0.0000621	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 5-3-11	5/3/11	K	NW	13.1	<0.0000781	<0.000026	0.0001050	<0.000026	<0.0013	0.0001030	<0.000026	0.0000659	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-3-11	5/3/11	11	NW	13.1	<0.0000781	<0.000026	0.0000932	0.0000289	<0.0013	0.0000531	<0.000026	0.0000383	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 5-5-11	5/5/11	L	ESE	0.8	<0.0000781	<0.000026	0.0000683	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-5-11	5/5/11	12	ESE	0.8	<0.0000781	<0.000026	0.0000796	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000383	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 5-10-11	5/10/11	M	SE	10.2	<0.0000781	<0.000026	0.000203	<0.000026	<0.0013	0.0000841	<0.000026	0.0000349	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-10-11	5/10/11	13	SE	10.2	<0.0000781	<0.000026	0.000279	<0.000026	<0.0013	0.000176	0.000549	0.0000679	<0.000234	<0.0000521	<0.000026	0.0134
Upwind 5-12-11	5/12/11	N	ESE	4.4	<0.0000987	<0.0000329	0.0000886	<0.0000329	<0.00164	<0.0000658	<0.0000329	<0.0000329	<0.000296	<0.0000658	<0.0000329	<0.000329
Downwind 5-12-11	5/12/11	14	ESE	4.4	<0.0000987	<0.0000329	0.0000633	<0.0000329	<0.00164	<0.0000658	0.000075	<0.0000329	<0.000296	<0.0000658	<0.0000329	0.000733

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Sample ID	Sample Date	Figure 1 Sample ID[a]	Wind Direction	Wind Speed (MPH)[b]	Analytical Results (mg/m^3) Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Selenium	Silver	Zinc
Upwind 5-16-11	5/16/11	O	NNE	4.8	<0.0000781	<0.000026	0.000447	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000298	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-16-11	5/16/11	15	NNE	4.8	<0.0000781	<0.000026	0.000932	0.0000347	<0.0013	0.000123	0.0000315	0.0000434	<0.000234	<0.0000521	<0.000026	0.000394
Upwind 5-19-11	5/19/11	P	SE	5.6	<0.0000781	<0.000026	0.0000489	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-19-11	5/19/11	16	SE	5.6	<0.0000781	<0.000026	0.000109	<0.000026	<0.0013	0.0000657	0.000163	0.0000329	<0.000234	<0.0000521	<0.000026	0.00394
Upwind 5-24-11	5/24/11	Q	SE	10.6	<0.0000781	<0.000026	0.000081	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-24-11	5/24/11	17	SE	10.6	<0.0000781	<0.000026	0.0000994	<0.000026	<0.0013	0.00013	0.000157	0.00004	<0.000234	<0.0000521	<0.000026	0.00252
Upwind 5-26-11	5/26/11	R	ESE	5.1	<0.0000781	<0.000026	0.0000324	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-26-11	5/26/11	18	ESE	5.1	<0.0000781	<0.000026	0.000051	<0.000026	<0.0013	<0.0000521	0.0000452	<0.000026	<0.000234	<0.0000521	<0.000026	0.000496
Upwind 5-31-11	5/31/11	S	ESE	10.1	<0.0000781	<0.000026	0.000103	<0.000026	<0.0013	<0.0000521	0.0000273	0.0000321	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 5-31-11	5/31/11	19	ESE	10.1	<0.0000781	<0.000026	0.0000863	<0.000026	<0.0013	0.0000996	0.000177	0.000148	<0.000234	<0.0000521	<0.000026	0.0017
Upwind 6-2-11	6/2/11	T	SSE	0.9	<0.0000781	<0.000026	0.0000539	<0.000026	<0.0013	0.000143	0.0000431	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 6-2-11	6/2/11	20	SSE	0.9	<0.0000781	<0.000026	0.0000382	<0.000026	<0.0013	0.000318	0.0000758	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 6-7-11	6/7/11	U	SSE	4.4	<0.0000781	<0.000026	0.0000389	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 6-7-11	6/7/11	21	SSE	4.4	<0.0000781	<0.000026	0.0000616	<0.000026	<0.0013	<0.0000521	0.0000532	<0.000026	<0.000234	<0.0000521	<0.000026	0.000484
Upwind 6-9-11	6/9/11	V	SSE	3.1	<0.0000781	<0.000026	<0.000026	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 6-9-11	6/9/11	22	SSE	3.1	<0.0000781	<0.000026	<0.000026	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	0.000472
Upwind 6-14-11	6/14/11	W	SSE	3.1	<0.0000781	<0.000026	0.000115	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000289	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 6-14-11	6/14/11	23	SSE	3.1	<0.0000781	<0.000026	<0.000026	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000354	<0.000234	<0.0000521	<0.000026	0.000473
Upwind 6-16-11	6/16/11	X	SE	11.9	<0.0000781	<0.000026	0.000149	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000371	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 6-16-11	6/16/11	24	SE	11.9	<0.0000781	<0.000026	0.000124	<0.000026	<0.0013	0.000117	0.00024	0.000094	<0.000234	<0.0000521	<0.000026	0.000659
Upwind 6-21-11	6/21/11	Y	SE	6.7	<0.0000781	<0.000026	0.000143	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000338	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 6-21-11	6/21/11	25	SE	6.7	<0.0000781	<0.000026	0.000109	<0.000026	<0.0013	0.0000894	0.00025	0.000049	<0.000234	<0.0000521	<0.000026	0.00214
Upwind 6-23-11	6/23/11	Z	SE	4.7	<0.0000781	<0.000026	0.0000727	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	0.000296
Downwind 6-23-11	6/23/11	26	SE	4.7	<0.0000781	<0.000026	0.0000675	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000291	<0.000234	<0.0000521	<0.000026	0.000397
Upwind 6-28-11	6/28/11	AA	SSE	3.7	<0.0000781	<0.000026	0.0000675	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000428	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 6-28-11	6/28/11	27	SSE	3.7	<0.0000781	<0.000026	0.0000309	<0.000026	<0.0013	<0.0000521	0.0000331	0.0000363	<0.000234	<0.0000521	<0.000026	0.000394
Upwind 6-30-11	6/30/11	AB	ENE	4.1	<0.0000781	<0.000026	0.000108	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	0.00029
Downwind 6-30-11	6/30/11	28	ENE	4.1	<0.0000781	<0.000026	0.0000885	<0.000026	<0.0013	0.000066	0.000273	<0.000026	<0.000234	<0.0000521	<0.000026	0.000903

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Sample ID	Sample Date	Figure 1 Sample ID[a]	Wind Direction	Wind Speed (MPH)[b]	Analytical Results (mg/m^3) Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Selenium	Silver	Zinc
Upwind 7-5-11	7/5/11	AC	SSE	0.9	<0.0000781	<0.000026	0.0000281	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-5-11	7/5/11	29	SSE	0.9	<0.0000781	<0.000026	0.0000673	<0.000026	<0.0013	<0.0000521	0.0000274	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 7-7-11	7/7/11	AD	S	2.9	<0.0000781	<0.000026	0.000085	<0.000026	<0.0013	<0.0000521	0.0000396	0.000042	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-7-11	7/7/11	30	S	2.9	<0.0000781	<0.000026	0.000185	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000398	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 7-12-11	7/12/11	AE	SSE	1.8	<0.0000781	<0.000026	0.0000486	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000417	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-12-11	7/12/11	31	SSE	1.8	<0.0000781	<0.000026	0.000142	<0.000026	<0.0013	<0.0000521	0.0000584	0.0000567	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 7-14-11	7/14/11	AF	SSE	3.8	<0.0000781	<0.000026	0.000098	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-14-11	7/14/11	32	SSE	3.8	<0.0000781	<0.000026	0.000109	<0.000026	<0.0013	0.0000898	0.000217	0.0000292	<0.000234	<0.0000521	<0.000026	0.00114
Upwind 7-19-11	7/19/11	AG	SE	4.1	<0.0000781	<0.000026	<0.0000521	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-19-11	7/19/11	33	SE	4.1	<0.0000781	<0.000026	<0.0000521	0.0000359	<0.0013	<0.0000521	0.000236	0.0000271	<0.000234	<0.0000521	<0.000026	0.000609
Upwind 7-21-11	7/21/11	AH	SE	4.6	<0.0000781	<0.000026	<0.0000521	0.0000439	<0.0013	<0.0000521	<0.000026	0.0000499	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-21-11	7/21/11	34	SE	4.6	<0.0000781	0.0000441	0.00022	0.0000347	<0.0013	0.000281	0.000935	0.0000743	<0.000234	<0.0000521	<0.000026	0.00914
Upwind 7-26-11	7/26/11	AI	SSE	2.6	<0.0000781	<0.000026	<0.0000521	<0.000026	<0.0013	<0.0000521	<0.00013	<0.00013	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-26-11	7/26/11	35	SSE	2.6	<0.0000781	<0.000026	<0.0000521	<0.000026	<0.0013	0.000074	0.000226	<0.000026	<0.000234	<0.0000521	<0.000026	0.00169
Upwind 7-28-11	7/28/11	AJ	SSE	3.4	<0.0000781	<0.000026	<0.0000521	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 7-28-11	7/28/11	36	SSE	3.4	<0.0000781	<0.000026	<0.0000521	<0.000026	<0.0013	<0.0000521	0.0000988	<0.000026	<0.000234	<0.0000521	<0.000026	0.00078
Upwind 8-2-11	8/2/11	AK	SE	1.8	<0.0000781	<0.000026	0.0000764	<0.000026	<0.0013	0.00016	<0.000026	0.000044	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 8-2-11	8/2/11	37	SE	1.8	<0.0000781	<0.000026	0.0000611	<0.000026	<0.0013	<0.0000521	0.0000944	0.000116	<0.000234	<0.0000521	<0.000026	0.000297
Upwind 8-4-11	8/4/11	AL	SE	4.7	<0.0000781	<0.000026	0.000179	<0.000026	<0.0013	0.000182	0.0000597	0.0000431	<0.000234	<0.0000521	<0.000026	0.000723
Downwind 8-4-11	8/4/11	38	SE	4.7	<0.0000781	<0.000026	0.000173	0.0000272	<0.0013	0.0000908	0.000121	0.0000492	<0.000234	<0.0000521	<0.000026	0.000797
Upwind 8-9-11	8/9/11	AM	SE	8.7	<0.0000781	<0.000026	0.00115	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000761	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 8-9-11	8/9/11	39	SE	8.7	<0.0000781	<0.000026	0.000145	<0.000026	<0.0013	0.000163	0.000201	0.00017	<0.000234	<0.0000521	<0.000026	0.00174
Upwind 8-11-11	8/11/11	AN	SSE	5.8	<0.0000781	<0.000026	0.000505	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000436	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 8-11-11	8/11/11	40	SSE	5.8	<0.0000781	<0.000026	0.0000908	<0.000026	<0.0013	<0.0000521	0.0000336	0.0000618	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 8-16-11	8/16/11	AO	S	5.1	<0.0000781	<0.000026	0.00189	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 8-16-11	8/16/11	41	S	5.1	<0.0000781	<0.000026	0.000114	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 8-18-11	8/18/11	AP	SE	1.5	<0.0000781	<0.000026	0.000289	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000894	<0.000234	<0.0000521	<0.000026	0.000385
Downwind 8-18-11	8/18/11	42	SE	1.5	<0.0000781	<0.000026	0.000123	<0.000026	<0.0013	<0.0000521	0.0000292	0.000113	<0.000234	<0.0000521	<0.000026	0.000315

Table 1. Encycle Perimeter Air Sample Analytical Results, Encycle/Texas, Inc., Corpus Christi, Texas

Sample ID	Sample Date	Figure 1 Sample ID[a]	Wind Direction	Wind Speed (MPH)[b]	Analytical Results (mg/m^3) Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Selenium	Silver	Zinc
Upwind 8-23-11	8/23/11	AQ	SE	0.8	<0.0000781	<0.000026	0.000168	<0.000026	<0.0013	0.000213	<0.000026	0.0000393	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 8-23-11	8/23/11	43	SE	0.8	<0.0000781	<0.000026	0.000103	<0.000026	<0.0013	<0.0000521	0.0000519	<0.000026	<0.000234	<0.0000521	<0.000026	0.000374
Upwind 8-25-11	8/25/11	AR	Variable[c]	3.7	<0.0000781	<0.000026	0.000243	<0.000026	<0.0013	<0.0000521	0.000231	0.000081	<0.000234	<0.0000521	<0.000026	0.000659
Downwind 8-25-11	8/25/11	44	Variable[c]	3.7	<0.0000781	<0.000026	0.000138	<0.000026	<0.0013	<0.0000521	<0.000026	0.0000421	<0.000234	<0.0000521	<0.000026	<0.00026
Upwind 8-30-11	8/30/11	AS	SE	1.3	<0.0000781	<0.000026	0.000131	<0.000026	<0.0013	0.0000556	0.00016	0.00003	<0.000234	<0.0000521	<0.000026	0.000874
Downwind 8-30-11	8/30/11	45	SE	1.3	<0.0000781	<0.000026	0.0000581	<0.000026	<0.0013	<0.0000521	0.0000443	0.0000392	<0.000234	<0.0000521	<0.000026	0.000314
Upwind 9-1-11	9/1/11	AT	Variable[c]	2.1	<0.0000781	<0.000026	0.00477	<0.000026	<0.0013	<0.0000521	0.0000296	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 9-1-11	9/1/11	46	Variable[c]	2.1	<0.0000781	<0.000026	0.00244	<0.000026	<0.0013	0.0000761	0.000206	0.0000398	<0.000234	<0.0000521	<0.000026	0.0011
Upwind 9-6-11	9/6/11	AU	N	1.2	<0.0000781	<0.000026	0.000259	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 9-6-11	9/6/11	47	N	1.2	<0.0000781	<0.000026	0.000377	<0.000026	<0.0013	0.000147	0.000956	0.0000669	<0.000234	<0.0000521	<0.000026	0.00175
Upwind 9-8-11	9/8/11	AV	NNW	2.7	<0.0000781	<0.000026	0.0000778	<0.000026	<0.0013	<0.0000521	<0.000026	<0.000026	<0.000234	<0.0000521	<0.000026	<0.00026
Downwind 9-8-11	9/8/11	48	NNW	2.7	<0.0000781	<0.000026	0.000102	<0.000026	<0.0013	0.0000731	0.000209	0.000054	<0.000234	<0.0000521	<0.000026	0.000651
Upwind 9-13-11	9/13/11	AW	SSE	3.1	(pending)											
Downwind 9-13-11	9/13/11	49	SSE	3.1	(pending)											
QA/QC Samples (µg)																
Trip Blank	1/6/11	---	---	---	<2.5	<2.5	<0.5	<0.025	<2.5	<0.5	<0.312	<0.5	<0.0217	<2.5	<0.25	<2.5
Trip Blank	1/11/11	---	---	---	<2.5	<2.5	<0.5	<0.025	<2.5	<0.5	<0.312	<0.5	<0.0217	<2.5	<0.25	<2.5
Trip Blank	1/21/11	---	---	---	<2.5	<2.5	<0.5	<0.025	<2.5	<0.5	<0.312	<0.5	<0.0217	<2.5	<0.25	<2.5
Trip Blank	2/1/11	---	---	---	<0.075	<0.025	0.0417	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0217	<0.05	<0.025	<0.25
Trip Blank	4/13/11	---	---	---	<0.075	<0.025	0.0443	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	4/15/11	---	---	---	<0.075	<0.025	0.0362	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	4/19/11	---	---	---	<0.075	<0.025	0.0261	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	4/22/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	4/27/11	---	---	---	<0.075	<0.025	0.0376	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	4/28/11	---	---	---	<0.075	<0.025	0.0407	<0.025	<1.25	0.0511	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/3/11	---	---	---	<0.075	<0.025	0.0709	<0.025	<1.25	0.0887	<0.025	0.0386	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/5/11	---	---	---	<0.075	<0.025	0.0422	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25

Table 1. Encycle Perimeter Air Sample Analytical Results, Encycle/Texas, Inc., Corpus Christi, Texas

Sample ID	Sample Date	Figure 1 Sample ID[a]	Wind Direction	Wind Speed (MPH)[b]	Analytical Results (mg/m^3) Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Selenium	Silver	Zinc
Trip Blank	5/10/11	---	---	---	<0.075	<0.025	0.0604	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/12/11	---	---	---	<0.075	<0.025	0.0305	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/16/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	0.0308	0.0336	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/19/11	---	---	---	<0.075	<0.025	0.0312	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/24/11	---	---	---	<0.075	<0.025	0.0294	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/26/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	5/31/11	---	---	---	<0.075	<0.025	0.0621	<0.025	<1.25	<0.05	<0.025	0.0276	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/2/11	---	---	---	<0.075	<0.025	0.0284	<0.025	<1.25	1.39	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/7/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/9/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/14/11	---	---	---	<0.075	<0.025	0.0352	<0.025	<1.25	1.43	<0.025	0.0332	<0.0225	<0.05	<0.025	0.338
Trip Blank	6/16/11	---	---	---	<0.075	<0.025	0.0375	<0.025	<1.25	0.262	0.0262	0.0341	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/21/11	---	---	---	<0.075	0.112	0.0507	<0.025	<1.25	<0.05	1.07	0.0509	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/23/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/28/11	---	---	---	<0.075	<0.025	0.051	<0.025	<1.25	<0.05	<0.025	0.0472	<0.0225	<0.05	<0.025	<0.25
Trip Blank	6/30/11	---	---	---	<0.075	<0.025	0.0276	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/5/11	---	---	---	<0.075	<0.025	0.0377	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/7/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/12/11	---	---	---	<0.075	<0.025	0.0332	<0.025	<1.25	<0.05	<0.025	0.0509	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/14/11	---	---	---	<0.075	<0.025	<0.025	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/19/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	0.0258	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/21/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/26/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.125	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	7/28/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/2/11	---	---	---	<0.075	<0.025	0.0507	<0.025	<1.25	0.0982	<0.025	0.039	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/4/11	---	---	---	<0.075	<0.025	0.068	<0.025	<1.25	0.0648	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/9/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	0.0775	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/11/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	0.0539	<0.0225	<0.05	<0.025	<0.25

Table 1. Encycle Perimeter Air Sample Analytical Results, Encycle/Texas, Inc., Corpus Christi, Texas

Sample ID	Sample Date	Figure 1 Sample ID[a]	Wind Direction	Wind Speed (MPH)[b]	Analytical Results (mg/m^3) Antimony	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Selenium	Silver	Zinc
Trip Blank	8/16/11	---	---	---	<0.075	<0.025	0.127	<0.025	<1.25	0.068	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/18/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	0.0503	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/23/11	---	---	---	<0.075	<0.025	0.0606	<0.025	<1.25	<0.05	<0.025	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/25/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	0.0374	<0.0225	<0.05	<0.025	<0.25
Trip Blank	8/30/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	0.0328	<0.0225	<0.05	<0.025	<0.25
Trip Blank	9/1/11	---	---	---	<0.075	<0.025	0.0811	<0.025	<1.25	<0.05	<0.025	0.0272	<0.0225	<0.05	<0.025	<0.25
Trip Blank	9/6/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	0.0364	<0.025	<0.0225	<0.05	<0.025	<0.25
Trip Blank	9/8/11	---	---	---	<0.075	<0.025	<0.05	<0.025	<1.25	<0.05	<0.025	0.0362	<0.0225	<0.05	<0.025	<0.25
Trip Blank	9/13/11	---	---	---	(pending)											
OSHA PEL (mg/m3) (8 hour TWA):					0.5	0.01	0.5	0.005	0.5	1	0.05	1	0.05	0.2	0.01	15
NAAQS (mg/m3) (rolling 3-month average):					---	---	---	---	---	---	0.00015	---	---	---	---	---

mg/m^3	Milligrams per cubic meter
MPH	Miles per hour
QA/QC	Field quality assurance/quality control samples
µg	Micrograms
PEL	Permissible exposure limit
TWA	Time-weighted average
NAAQS	National Ambient Air Quality Standard (Rolling 3-Month Average for lead)
a	Air sample location shown on attached Figure 1.
b	Wind speed measured at startup of air sampling pump.
c	Wind direction varied during the 8-hour sampling interval from southerly to northerly in the morning, and ENE to ESE in the afternoon.
d	Wind direction varied during the 8-hour sampling interval from northerly and northeasterly in the morning, and ENE to ESE in the afternoon.
Notes:	(1) Samples analyzed by TestAmerica using NIOSH Method 7300 or 7303, except mercury which is analyzed using NIOSH Method 6009.
	(2) Wind speed measured at the time of air sample collection using Windmate Model WM-100 air velocity meter.
	(3) Air samples collected using Gilian Model GilAir3 and GilAir5 air sample pumps.

Table 2. Air Monitoring Revised Action Levels and Stop Work Levels during Encycle Demolition Project (2 Week Period from 9/14/11 to 9/28/11) - Wind Direction with Northerly Component, 5500 Up River Road, Corpus Christi, Texas

Parameter	OSHA PEL (8 hour TWA)	NAAQS	South Property Boundary Action Level to Increase Dust Suppression/ Emission Controls[a]	South Property Boundary Stop Work Level [b]	Sample Collection Frequency
Asbestos	0.1 f/cc		0.01 f/cc	0.01 f/cc	Daily during asbestos abatement activities.
Dust/Particulates	5 mg/m^3	0.15 mg/m^3 (PM_{10})	0.023 mg/m^3 (PM_{10})[c]	0.023 mg/m^3 (PM_{10})[d]	Continuous real-time measurements during demolition,
(cement)		0.035 mg/m^3 ($PM_{2.5}$)	0.005 mg/m^3 ($PM_{2.5}$)[c]	0.007 mg/m^3 ($PM_{2.5}$)[d]	asbestos abatement, and hazardous waste removal.
Antimony	0.5 mg/m^3		0.005 mg/m^3 (f)	0.005 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Arsenic	0.01 mg/m^3		0.0001 mg/m^3 (f)	0.0001 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Barium	0.5 mg/m^3		0.005 mg/m^3 (f)	0.005 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Cadmium	0.005 mg/m^3		0.0001 mg/m^3 (f)	0.0001 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Chromium	0.5 mg/m^3		0.0036 mg/m^3 (f)	0.0036 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Copper	1 mg/m^3		0.01 mg/m^3 (f)	0.01 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Lead	0.05 mg/m^3	0.00015 mg/m^3 (e)	0.00015 mg/m^3	0.00015 mg/m^3 (e)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Mercury	0.05 mg/m^3		0.00025 mg/m^3 (f)	0.00025 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Nickel	1 mg/m^3		0.00015 mg/m^3 (f)	0.00015 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Selenium	0.2 mg/m^3		0.002 mg/m^3 (f)	0.002 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Silver	0.01 mg/m^3		0.0001 mg/m^3 (f)	0.0001 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.
Zinc	15 mg/m^3		0.02 mg/m^3 (f)	0.02 mg/m^3 (f)	At least twice weekly during demolition, asbestos abatement, and hazardous waste removal.

f/cc	Fibers per cubic centimeter
mg/m^3	Milligrams per cubic meter
PEL	Permissible exposure limit
TWA	Time-weighted average
NAAQS	National Ambient Air Quality Standards
$PM_{2.5}$ and PM_{10}	NAAQS particulate matter (in micrometers diameter) 24-hour average standard. Annual standard (arithmetic mean) for $PM_{2.5}$ is 0.015 mg/m^3.
a	These Action Levels apply on days when wind direction has a northerly component (i.e., when the wind is blowing from Encycle toward Up River Road). If an Action Level is exceeded, and the background (upwind sample) concentration is also exceeded on that same day, increased dust suppression/emission controls will be conducted.
b	These Stop Work Levels apply on days when wind direction has a northerly component (i.e., when the wind is blowing from Encycle toward Up River Road). If the Stop Work Level is exceeded, and the background (upwind sample) concentration is also exceeded on that same day,

Table 2. Air Monitoring Revised Action Levels and Stop Work Levels during Encycle Demolition Project (2 Week Period from 9/14/11 to 9/28/11) - Wind Direction with Northerly Component, 5500 Up River Road, Corpus Christi, Texas

demolition, hazardous waste removal, and asbestos abatement work will be stopped for a period of at least 30 minutes. During the work stoppage period, the Demolition Contractor shall make dust suppression adjustments to reduce airborne particulate matter concentrations below Action Level concentrations. In addition, if the asbestos or one or more metal concentrations exceed Stop Work Levels, since these parameters are not analyzed real-time, the Demolition Contractor shall immediately lower the real-time particulate $PM_{2.5}$ and PM_{10} Action Levels and Stop Work Levels by an amount corresponding to the Stop Work Level exceedance. For example, if the Stop Work level for nickel is exceeded by twice the Stop Work Level shown on this table, the $PM_{2.5}$ and PM_{10} Action Levels and Stop Work Levels will be reduced by half (i.e., $PM_{2.5}$ and PM_{10} Action Levels will be reduced to 0.0175 mg/m^3 and 0.075 mg/m^3, respectively; and the $PM_{2.5}$ and PM_{10} Stop Work Levels will be reduced to 0.0225 mg/m^3 and 0.075 mg/m^3, respectively). After the real time particulate Action Levels and Stop Work Levels have been reduced (minimum 2 week period), the Demoliton Contractor shall make dust suppression adjustments, and the asbestos and metals analytical data will be evaulated every 2 weeks to determine the effectiveness of the dust suppression adjustments. If following the 2 week evaluation period, the asbestos and metal analytical data during that 2 week period show the asbestos and metals concentrations did not exceed any of the Action Levels, the $PM_{2.5}$ and PM_{10} Action Levels and Stop Work Levels can be returned to the original levels shown on this table.

c Average over 30 minute period. 0.015 mg/m^3 annual average for $PM_{2.5}$ shall not be exceeded.

d Average over one hour period.

e NAAQS Rolling 3-Month Average; Quarterly Average is 0.0015 mg/m^3.

f Texas Effects Screening Levels (ESLs) - short term ESLs (1-hour averaging period)

TestAmerica
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September 13, 2011

LABORATORY REPORT

Client:
Arcadis - Corpus Christi
711 N. Carancahua, Suite 1700
Corpus Christi, TX 78401
Attn: Ken Brandner

Work Order:	PUI0276
Project Name:	Air Monitoring 2010
Project Number:	Encycle CC001231.0001
Date Received:	09/07/11
Final Report:	09/13/11 08:20

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.
HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made.
SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Tina Paulauskas

Tina Paulauskas
Project Manager

TestAmerica
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Arcadis - Corpus Christi 711 N. Carancahua, Suite 1700 Corpus Christi, TX 78401 Ken Brandner	Work Order: Project: Project Number:	PUI0276 Air Monitoring 2010 Encycle CC001231.0001	Received: 09/07/11 Reported: 09/13/11 08:20

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
Upwind 9-6-11	PUI0276-01	09/06/11	MCE Filter, 0.8 micron, 37-mm, 3-piece
Upwind 9-6-11	PUI0276-02	09/06/11	Anasorb C300, 200 mg
Downwind 9-6-11	PUI0276-03	09/06/11	MCE Filter, 0.8 micron, 37-mm, 3-piece
Downwind 9-6-11	PUI0276-04	09/06/11	Anasorb C300, 200 mg
Trip Blank	PUI0276-05	09/06/11	MCE Filter, 0.8 micron, 37-mm, 3-piece
Trip Blank	PUI0276-06	09/06/11	Anasorb C300, 200 mg

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Arcadis - Corpus Christi 711 N. Carancahua, Suite 1700 Corpus Christi, TX 78401 Ken Brandner	Work Order: PUI0276 Project: Air Monitoring 2010 Project Number: Encycle CC001231.0001	Received: 09/07/11 Reported: 09/13/11 08:20	

ANALYTICAL REPORT

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
Mercury by NIOSH 6009 (Modified)								
Sample ID: PUI0276-02 (Upwind 9-6-11)		**Tube**		**Sample Air Volume: 96L**			**Sampled: 09/06/11**	
	ug, Total	mg/m3	ppm				**Prepared: 09/08/11 12:54**	
Mercury	<0.0225	<0.000234	<0.0000286		9/9/2011	sls	0.0225	NIOSH 6009 (Modified)
Sample ID: PUI0276-04 (Downwind 9-6-11)		**Tube**		**Sample Air Volume: 96L**			**Sampled: 09/06/11**	
	ug, Total	mg/m3	ppm				**Prepared: 09/08/11 12:54**	
Mercury	<0.0225	<0.000234	<0.0000286		9/9/2011	sls	0.0225	NIOSH 6009 (Modified)
Sample ID: PUI0276-06 (Trip Blank)		**Tube**		**Sample Air Volume: L**			**Sampled: 09/06/11**	
	ug, Total	mg/m3	ppm				**Prepared: 09/08/11 12:54**	
Mercury	<0.0225	--	--		9/9/2011	sls	0.0225	NIOSH 6009 (Modified)
Metals using ICP-MS by NIOSH 7303								
Sample ID: PUI0276-01 (Upwind 9-6-11)		**Filter**		**Sample Air Volume: 960L**			**Sampled: 09/06/11**	
	ug, Total	mg/m3	ppm				**Prepared: 09/07/11 18:07**	
Antimony	<0.0750	<0.0000781	<0.0000157		9/12/2011	PC	0.0750	NIOSH 7303
Arsenic	<0.0250	<0.0000260	<0.00000850		9/12/2011	PC	0.0250	NIOSH 7303
Barium	0.249	0.000259	0.0000462		9/12/2011	PC	0.0500	NIOSH 7303
Cadmium	<0.0250	<0.0000260	<0.00000566		9/12/2011	PC	0.0250	NIOSH 7303
Chromium	<1.25	<0.00130	<0.000612	L	9/12/2011	PC	1.25	NIOSH 7303
Copper	<0.0500	<0.0000521	<0.0000200		9/12/2011	PC	0.0500	NIOSH 7303
Lead	<0.0250	<0.0000260	<0.00000307		9/12/2011	PC	0.0250	NIOSH 7303
Nickel	<0.0250	<0.0000260	<0.0000108		9/12/2011	PC	0.0250	NIOSH 7303
Selenium	<0.0500	<0.0000521	<0.0000161		9/12/2011	PC	0.0500	NIOSH 7303
Silver	<0.0250	<0.0000260	<0.00000590		9/12/2011	PC	0.0250	NIOSH 7303
Zinc	<0.250	<0.000260	<0.0000974		9/12/2011	PC	0.250	NIOSH 7303
Sample ID: PUI0276-03 (Downwind 9-6-11)		**Filter**		**Sample Air Volume: 960L**			**Sampled: 09/06/11**	
	ug, Total	mg/m3	ppm				**Prepared: 09/07/11 18:07**	
Antimony	<0.0750	<0.0000781	<0.0000157		9/12/2011	PC	0.0750	NIOSH 7303
Arsenic	<0.0250	<0.0000260	<0.00000850		9/12/2011	PC	0.0250	NIOSH 7303
Barium	0.362	0.000377	0.0000671		9/12/2011	PC	0.0500	NIOSH 7303
Cadmium	<0.0250	<0.0000260	<0.00000566		9/12/2011	PC	0.0250	NIOSH 7303
Chromium	<1.25	<0.00130	<0.000612	L	9/12/2011	PC	1.25	NIOSH 7303
Copper	0.141	0.000147	0.0000565		9/12/2011	PC	0.0500	NIOSH 7303
Lead	0.918	0.000956	0.000113		9/12/2011	PC	0.0250	NIOSH 7303
Nickel	0.0642	0.0000669	0.0000279		9/12/2011	PC	0.0250	NIOSH 7303
Selenium	<0.0500	<0.0000521	<0.0000161		9/12/2011	PC	0.0500	NIOSH 7303
Silver	<0.0250	<0.0000260	<0.00000590		9/12/2011	PC	0.0250	NIOSH 7303
Zinc	1.68	0.00175	0.000654		9/12/2011	PC	0.250	NIOSH 7303
Sample ID: PUI0276-05 (Trip Blank)		**Filter**		**Sample Air Volume: L**			**Sampled: 09/06/11**	
	ug, Total	mg/m3	ppm				**Prepared: 09/07/11 18:07**	
Antimony	<0.0750	--	--		9/12/2011	PC	0.0750	NIOSH 7303
Arsenic	<0.0250	--	--		9/12/2011	PC	0.0250	NIOSH 7303

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Arcadis - Corpus Christi 711 N. Carancahua, Suite 1700 Corpus Christi, TX 78401 Ken Brandner	Work Order: PUI0276 Project: Air Monitoring 2010 Project Number: Encycle CC001231.0001	Received: 09/07/11 Reported: 09/13/11 08:20	

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
Metals using ICP-MS by NIOSH 7303 - cont.								
Sample ID: PUI0276-05 (Trip Blank) - cont.		**Filter**		**Sample Air Volume: L**			**Sampled: 09/06/11**	
	ug, Total	mg/m3	ppm				**Prepared: 09/07/11 18:07**	
Barium	<0.0500	--	--		9/12/2011	PC	0.0500	NIOSH 7303
Cadmium	<0.0250	--	--		9/12/2011	PC	0.0250	NIOSH 7303
Chromium	<1.25	--	--	L	9/12/2011	PC	1.25	NIOSH 7303
Copper	<0.0500	--	--		9/12/2011	PC	0.0500	NIOSH 7303
Lead	0.0364	--	--	IH4	9/12/2011	PC	0.0250	NIOSH 7303
Nickel	<0.0250	--	--		9/12/2011	PC	0.0250	NIOSH 7303
Selenium	<0.0500	--	--		9/12/2011	PC	0.0500	NIOSH 7303
Silver	<0.0250	--	--		9/12/2011	PC	0.0250	NIOSH 7303
Zinc	<0.250	--	--		9/12/2011	PC	0.250	NIOSH 7303

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Qual	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Mercury by NIOSH 6009 (Modified)							
11I0223-BLK1							
Mercury	<0.0225		ug, Total	11I0223		11I0223-BLK1	09-09-2011
Metals using ICP-MS by NIOSH 7303							
11I0195-BLK1							
Antimony	<0.0750		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Arsenic	<0.0250		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Barium	<0.0500		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Cadmium	<0.0250		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Chromium	<1.25		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Copper	<0.0500		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Lead	<0.0250		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Nickel	<0.0250		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Selenium	<0.0500		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Silver	<0.0250		ug, Total	11I0195		11I0195-BLK1	09-12-2011
Zinc	<0.250		ug, Total	11I0195		11I0195-BLK1	09-12-2011

LCS

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Mercury by NIOSH 6009 (Modified)								
11I0223-BS1								
Mercury	0.500	0.492		ug, Total	98%	81-129	11I0223	09-09-2011
Metals using ICP-MS by NIOSH 7303								
11I0195-BS1								
Antimony	2.50	2.29		ug, Total	92%	80-120	11I0195	09-12-2011
Arsenic	2.50	2.36		ug, Total	94%	80-120	11I0195	09-12-2011
Barium	2.50	2.52		ug, Total	101%	80-120	11I0195	09-12-2011
Cadmium	2.50	2.28		ug, Total	91%	80-120	11I0195	09-12-2011
Chromium	2.50	3.26	L	ug, Total	130%	80-120	11I0195	09-12-2011
Copper	2.50	2.56		ug, Total	103%	80-120	11I0195	09-12-2011
Lead	2.50	2.51		ug, Total	100%	80-120	11I0195	09-12-2011
Nickel	2.50	2.60		ug, Total	104%	80-120	11I0195	09-12-2011
Selenium	2.50	2.44		ug, Total	98%	80-120	11I0195	09-12-2011
Silver	2.50	2.50		ug, Total	100%	80-120	11I0195	09-12-2011
Zinc	2.50	2.17		ug, Total	87%	80-120	11I0195	09-12-2011

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Mercury by NIOSH 6009 (Modified)												

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Arcadis - Corpus Christi 711 N. Carancahua, Suite 1700 Corpus Christi, TX 78401 Ken Brandner	Work Order: PUI0276 Project: Air Monitoring 2010 Project Number: Encycle CC001231.0001	Received: 09/07/11 Reported: 09/13/11 08:20	

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Mercury by NIOSH 6009 (Modified)												
11I0223-BSD1												
Mercury		0.488		ug, Total	0.500	98%	81-129	0.761	30	11I0223		09-09-2011
Metals using ICP-MS by NIOSH 7303												
11I0195-BSD1												
Antimony		2.28		ug, Total	2.50	91%	80-120	0.35	25	11I0195		09-12-2011
Arsenic		2.37		ug, Total	2.50	95%	80-120	0.552	25	11I0195		09-12-2011
Barium		2.54		ug, Total	2.50	102%	80-120	1.03	25	11I0195		09-12-2011
Cadmium		2.26		ug, Total	2.50	90%	80-120	0.9	25	11I0195		09-12-2011
Chromium		3.21	L	ug, Total	2.50	128%	80-120	1.48	25	11I0195		09-12-2011
Copper		2.55		ug, Total	2.50	102%	80-120	0.39	25	11I0195		09-12-2011
Lead		2.50		ug, Total	2.50	100%	80-120	0.357	25	11I0195		09-12-2011
Nickel		2.60		ug, Total	2.50	104%	80-120	0.0981	25	11I0195		09-12-2011
Selenium		2.46		ug, Total	2.50	98%	80-120	0.836	25	11I0195		09-12-2011
Silver		2.51		ug, Total	2.50	101%	80-120	0.527	25	11I0195		09-12-2011
Zinc		2.18		ug, Total	2.50	87%	80-120	0.772	25	11I0195		09-12-2011

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Arcadis - Corpus Christi 711 N. Carancahua, Suite 1700 Corpus Christi, TX 78401 Ken Brandner	Work Order: Project: Project Number:	PUI0276 Air Monitoring 2010 Encycle CC001231.0001	Received: Reported:	09/07/11 09/13/11 08:20

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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Arcadis - Corpus Christi 711 N. Carancahua, Suite 1700 Corpus Christi, TX 78401 Ken Brandner	Work Order: Project: Project Number:	PUI0276 Air Monitoring 2010 Encycle CC001231.0001	Received: Reported:	09/07/11 09/13/11 08:20

DATA QUALIFIERS AND DEFINITIONS

IH4 Target analyte was detected in the client's field blank at or above the reporting limit. The background was not subtracted from the client's sample(s).

L Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

ADDITIONAL COMMENTS

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www.testamericainc.com or call toll free 866.772.5227

Lab Number: PVI 0276

Customer Number: Encycle	Page 1 of 1
Name: ARCADIS	Sampler: Doug Duncan
Address: 711 N. Carancahua, Suite 1700	Project Name: Encycle
City, State, Zip: Corpus Christi, TX 78401	Project Number: CC001231.0001
Contact: Ken Brandner	P.O. Number: CC001231.0001
Phone: 361-883-1353 Fax: 361-883-7565	Fax Results: Y (N)
E-Mail Address: Kenneth.Brandner@arcadis-us.com	E-Mail Results: (Y) N

Sample Receipt

Temperature 20.0 °C/Amb

Custody Seals: Yes ____ No ✓

Custody Seals Intact: Yes ____ No ____

Total # of Containers: ____

Turn Around Request

____ 24 Hours ____ 48 Hours

(X) 72 Hours ____ 96 Hours

____ Standard 5 Working Days

Subject to scheduling and availability (surcharges apply)

Analysis Method(s)/Analyte(s)

Sample Information

Lab # (Internal Use Only)	Media Type (Filter, Passive Badge, Tube or Wipe)	Pump Name or ID Number	Flow Rate (Liters/minute)	Sample Identification	Collection Date	Start Time	Stop Time	Total Minutes	Total Volume In Liters	Area Wiped in cm2	Number of Media per Sample	NIOSH 7303 ICPMS (Sb, As, Ba, Cd, Cr, Cu, Pb, Ni, Se, Ag, Zn)	NIOSH 6009 (Mercury)	
	Cassette	Gilian	2.0	Upwind 9-6-11	9-6-11	0845	~~0845~~ 1645	480	960	—	1	X		-01
	Tube	Gilian	0.2	Upwind 9-6-11	9-6-11	0845	1645	480	96	—	1		X	-02
	Cassette	Gilian	2.0	Downwind 9-6-11	9-6-11	0816	1616	480	960	—	1	X		-03
	Tube	Gilian	0.2	Downwind 9-6-11	9-6-11	0816	1616	480	96	—	1		X	-04
	Cassette	—	—	Trip Blank	9-6-11	—	—	—	—	—	1	X		-05
	Tube	—	—	Trip Blank	9-6-11	—	—	—	—	—	1		X	-06

Instructions / Special Requirements:

Date:	Time:	Samples Relinquished By:	Received By:
9/6/11	1700	Douglas Duncan	9/7/11 1030

All services are performed subject to the Terms & Conditions on the reverse side.

TAL-0045 (0409)