

***APPENDIX C***

***Subslab Vapor Analytical  
Summary and Lab Report***



Table 2. Summary of Subsiab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds  
February 2008 - April 2011

Sample Date	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10	MP-11	MP-12	MP-13	MP-14	MP-15
23-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jun-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
22-Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Apr-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Aug-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Sep-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-Feb-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jan-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Oct-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-Feb-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jan-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Oct-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds  
February 2008 - April 2011

Compound	Sample Date	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10	MP-11	MP-12	MP-13	Qual		
Acetone	5-Feb-08	17,200	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7-Mar-08	NS	28,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	25-Mar-08	NS	NS	188,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Jun-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31-Jul-08	107,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25-Nov-08	10,600	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25-Feb-09	26,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25-May-09	58,500	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9-Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15-Jan-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21-Apr-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Trichloroethylene	8-Feb-08	1,170	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		27-Mar-08	NS	1,270	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		29-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		27-Jun-08	1,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Oct-08		2,800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
25-Nov-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
18-Dec-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
21-Jan-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
25-Feb-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
29-Mar-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
30-Apr-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
25-May-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9-Oct-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
15-Jan-10		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
21-Apr-10		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
15-Jul-10		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
26-Feb-11		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
27-Apr-11		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Benzene		8-Feb-08	1,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		29-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		27-Jun-08	1,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	27-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	25-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	25-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	29-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	30-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	25-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9-Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	15-Jan-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	21-Apr-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	26-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds  
 February 2008 - April 2011

Compound	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	MP-9	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	MP-9	Qual																			
Methylene chloride	23-Mar-08	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U													
	25-Apr-08	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U									
	29-May-08	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U							
	1,1-Dichloroethane	26-Mar-08	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U						
		29-Apr-08	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U				
		25-Jun-08	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U		
		27-Sep-08	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U



Table 2: Summary of Sublab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds  
February 2008 - April 2011

Sample Date	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10	MP-11	MP-12	MP-13	Qual
<b>1,1,1-Trichloroethane</b>														
8-Feb-08	0.110	NS	NS	NS	0.110	NS	NS	NS	NS	0.109	NS	NS	NS	NS
15-Feb-08	NS	0.109	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jul-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Aug-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
22-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Benzene</b>														
8-Feb-08	0.093	NS	NS	NS	0.093	NS	NS	NS	NS	0.090	NS	NS	NS	NS
15-Feb-08	NS	0.090	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jul-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Aug-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
22-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Carbon tetrachloride</b>														
8-Feb-08	0.440	NS	NS	NS	0.440	NS	NS	NS	NS	0.477	NS	NS	NS	NS
15-Feb-08	NS	0.539	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jul-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Aug-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
22-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>1,2-Dichloroethane</b>														
8-Feb-08	0.600	NS	NS	NS	0.600	NS	NS	NS	NS	0.609	NS	NS	NS	NS
15-Feb-08	NS	0.692	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jul-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Aug-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
22-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds  
February 2008 - April 2011

Sample Date	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10	MP-11	MP-12	MP-13	Qual
4-Feb-08	0.130	NS	NS	NS	0.150	NS	NS	NS	NS	0.134	NS	NS	NS	U
7-Mar-08	NS	0.134	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
22-Jun-08	0.700	U	NS	NS	0.134	NS	NS	NS	NS	NS	NS	NS	NS	U
31-Jul-08	0.134	U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
28-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
22-Nov-08	0.130	U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
24-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
26-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
27-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
27-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
27-Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jul-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Aug-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Nov-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Dec-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jan-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Feb-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Mar-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Apr-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-May-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Aug-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Sep-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Oct-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Nov-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Dec-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Mar-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-May-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jun-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jul-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Aug-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Sep-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Oct-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Nov-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Dec-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U
15-Jan-12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U









Table 2. Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds  
February 2008 - April 2011

Sample Date	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	Distal	MP-11	MP-12	MP-15	Qual	
1,1,2,2-Tetrachloroethane	6-Feb-08	0.140												
	27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	29-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Jun-08	0.714												NS
	31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	26-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	25-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	23-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	19-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	19-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-May-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	o-Xylene	6-Feb-08	0.700											
27-Mar-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
25-Apr-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
25-May-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
27-Jun-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
31-Jul-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
26-Aug-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
30-Sep-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
24-Oct-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
25-Nov-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
18-Dec-08		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
21-Jan-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
23-Feb-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
19-Mar-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
19-Apr-09		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
15-May-10		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
15-Jun-10		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
15-Jul-10		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
27-Feb-11		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
27-Apr-11		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
m-Propylbenzene	6-Feb-08	2.400												
	27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	25-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Jun-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	26-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	24-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	25-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	23-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	19-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	19-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-May-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
1,3,5-Triethylbenzene	6-Feb-08	0.100												
	27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	25-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Jun-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	26-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	24-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	25-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	23-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	19-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	19-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-May-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	15-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS
	27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS



Table 2: Summary of Substlab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds  
February 2008 - April 2011

Sample Date	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10	MP-11	MP-12	MP-13	MP-14	MP-15
15-Feb-08	2.740	7.740	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jun-08	4.270	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Sep-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Oct-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-Feb-08	0.120	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jun-08	0.120	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Oct-08	3.000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Feb-09	3.000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jul-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Sep-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Nov-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Dec-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jan-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Mar-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-May-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jul-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Sep-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Oct-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Nov-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Dec-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jan-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Mar-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-Feb-08	2.740	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jun-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Sep-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Oct-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Feb-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:  
 All data presented in micrograms per cubic meter (ug/m3).  
 U - detection indicates that the compound was not detected by the laboratory. Reporting limit shown in the data column.  
 NS - not sampled.  
 - Site Specific Compound of Concern per ATSDR Health Consultation, December 4, 2005.



## ANALYTICAL REPORT

Lab Number:	L1105798
Client:	EA Engineering, Science and Technology 2374 Post Road Suite 102 Warwick, RI 02886
ATTN:	Frank Postma
Phone:	(401) 736-3440
Project Name:	ALVAREZ HIGH SCHOOL
Project Number:	14687.01
Report Date:	05/04/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

---

320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1105798-01	MP-2	PROVIDENCE, RI	04/27/11 10:52
L1105798-02	MP-5	PROVIDENCE, RI	04/27/11 11:16
L1105798-03	MP-7	PROVIDENCE, RI	04/27/11 11:06
L1105798-04	MP-8	PROVIDENCE, RI	04/27/11 11:00
L1105798-05	IMP-1	PROVIDENCE, RI	04/27/11 09:33
L1105798-06	IMP-3	PROVIDENCE, RI	04/27/11 09:35



**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

---

#### Volatile Organics in Air (SIM)

The canister certification results are provided as an addendum.

L1105798-02 The presence of Chloromethane could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L1105798-02, -03, -04 and WG465447-5 Duplicate were re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis were performed only for the compound that exceeded the calibration range.

L1105798-03, -04, -06 and WG465447-5 Duplicate results for Chloromethane should be considered

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**Case Narrative (continued)**

estimated due to co-elution with a non-target peak.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kathleen O'Brien

Title: Technical Director/Representative

Date: 05/04/11

**AIR**

**Project Name:** ALVAREZ HIGH SCHOOL**Lab Number:** L1105798**Project Number:** 14687.01**Report Date:** 05/04/11**SAMPLE RESULTS**

Lab ID: L1105798-01  
 Client ID: MP-2  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/29/11 22:50  
 Analyst: RY

Date Collected: 04/27/11 10:52  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.442	0.050	--	2.18	0.247	--		1
Chloromethane	0.597	0.500	--	1.23	1.03	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	44.8	2.00	--	106	4.75	--		1
Trichlorofluoromethane	0.200	0.050	--	1.12	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	2.33	0.500	--	6.87	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.028	0.020	--	0.136	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.054	0.020	--	0.339	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	0.043	0.020	--	0.231	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

**Project Name:** ALVAREZ HIGH SCHOOL**Lab Number:** L1105798**Project Number:** 14687.01**Report Date:** 05/04/11**SAMPLE RESULTS**

Lab ID: L1105798-01  
 Client ID: MP-2  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 10:52  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.222	0.050	--	0.836	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.212	0.020	--	1.44	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.056	0.020	--	0.243	0.087	--		1
p/m-Xylene	0.160	0.040	--	0.694	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	0.073	0.020	--	0.311	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.066	0.020	--	0.286	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	0.052	0.020	--	0.255	0.098	--		1
1,2,4-Trimethylbenzene	0.172	0.020	--	0.845	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.164	0.020	--	0.985	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

**Project Name:** ALVAREZ HIGH SCHOOL

**Lab Number:** L1105798

**Project Number:** 14687.01

**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-01  
 Client ID: MP-2  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 10:52  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140

**Project Name:** ALVAREZ HIGH SCHOOL**Lab Number:** L1105798**Project Number:** 14687.01**Report Date:** 05/04/11**SAMPLE RESULTS**

Lab ID: L1105798-02  
 Client ID: MP-5  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/29/11 23:28  
 Analyst: RY

Date Collected: 04/27/11 11:16  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.460	0.050	--	2.27	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	0.030	0.020	--	0.079	0.053	--		1
Acetone	108	2.00	--	255	4.75	--	E	1
Trichlorofluoromethane	2.28	0.050	--	12.8	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	58.0	0.500	--	171	1.47	--	E	1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.038	0.020	--	0.185	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.054	0.020	--	0.339	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	14.6	0.020	--	78.1	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

**Project Name:** ALVAREZ HIGH SCHOOL**Lab Number:** L1105798**Project Number:** 14687.01**Report Date:** 05/04/11**SAMPLE RESULTS**

Lab ID: L1105798-02  
 Client ID: MP-5  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 11:16  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.181	0.050	--	0.682	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	1.06	0.020	--	7.22	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.055	0.020	--	0.239	0.087	--		1
p/m-Xylene	0.163	0.040	--	0.707	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	0.071	0.020	--	0.302	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.066	0.020	--	0.286	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	0.055	0.020	--	0.270	0.098	--		1
1,2,4-Trimethylbenzene	0.174	0.020	--	0.855	0.098	--		1
1,3-Dichlorobenzene	0.070	0.020	--	0.420	0.120	--		1
1,4-Dichlorobenzene	0.180	0.020	--	1.08	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-02  
 Client ID: MP-5  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 11:16  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-02 D  
 Client ID: MP-5  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48.TO-15-SIM  
 Analytical Date: 04/30/11 09:44  
 Analyst: RY

Date Collected: 04/27/11 11:16  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Acetone	104	5.00	--	246	11.9	--		2.5
2-Butanone	54.1	1.25	--	159	3.68	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	101		60-140

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-03  
 Client ID: MP-7  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/30/11 00:06  
 Analyst: RY

Date Collected: 04/27/11 11:06  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.458	0.050	--	2.26	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	0.031	0.020	--	0.082	0.053	--		1
Acetone	92.7	2.00	--	220	4.75	--	E	1
Trichlorofluoromethane	0.578	0.050	--	3.24	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	3.82	0.500	--	11.3	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.024	0.020	--	0.117	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.053	0.020	--	0.333	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	0.166	0.020	--	0.891	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

### SAMPLE RESULTS

Lab ID: L1105798-03  
 Client ID: MP-7  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 11:06  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.333	0.050	--	1.25	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.226	0.020	--	1.53	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.066	0.020	--	0.286	0.087	--		1
p/m-Xylene	0.205	0.040	--	0.889	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	0.086	0.020	--	0.366	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.085	0.020	--	0.369	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	0.075	0.020	--	0.368	0.098	--		1
1,2,4-Trimethylbenzene	0.253	0.020	--	1.24	0.098	--		1
1,3-Dichlorobenzene	0.026	0.020	--	0.156	0.120	--		1
1,4-Dichlorobenzene	0.161	0.020	--	0.967	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-03  
 Client ID: MP-7  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 11:06  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-03 D  
 Client ID: MP-7  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/30/11 10:22  
 Analyst: RY

Date Collected: 04/27/11 11:06  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Acetone	74.1	5.00	--	176	11.9	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	100		60-140

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-04  
 Client ID: MP-8  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/30/11 01:23  
 Analyst: RY

Date Collected: 04/27/11 11:00  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.507	0.050	--	2.50	0.247	--		1
Chloromethane	0.571	0.500	--	1.18	1.03	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	95.8	2.00	--	227	4.75	--	E	1
Trichlorofluoromethane	0.227	0.050	--	1.27	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	5.18	0.500	--	15.3	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.056	0.020	--	0.273	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.111	0.100	--	0.354	0.319	--		1
Carbon tetrachloride	0.058	0.020	--	0.364	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1



**Project Name:** ALVAREZ HIGH SCHOOL**Lab Number:** L1105798**Project Number:** 14687.01**Report Date:** 05/04/11**SAMPLE RESULTS**

Lab ID: L1105798-04  
 Client ID: MP-8  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 11:00  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.962	0.050	--	3.62	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.230	0.020	--	1.56	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.089	0.020	--	0.386	0.087	--		1
p/m-Xylene	0.266	0.040	--	1.15	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	0.094	0.020	--	0.400	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.105	0.020	--	0.456	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	0.067	0.020	--	0.329	0.098	--		1
1,2,4-Trimethylbenzene	0.217	0.020	--	1.06	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.190	0.020	--	1.14	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1



**Project Name:** ALVAREZ HIGH SCHOOL

**Lab Number:** L1105798

**Project Number:** 14687.01

**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-04  
 Client ID: MP-8  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 11:00  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-04 D  
 Client ID: MP-8  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48.TO-15-SIM  
 Analytical Date: 04/30/11 11:33  
 Analyst: RY

Date Collected: 04/27/11 11:00  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Acetone	88.2	5.00	—	209	11.9	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	112		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	103		60-140

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-05  
 Client ID: IMP-1  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/30/11 02:02  
 Analyst: RY

Date Collected: 04/27/11 09:33  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.470	0.050	--	2.32	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	7.51	2.00	--	17.8	4.75	--		1
Trichlorofluoromethane	0.209	0.050	--	1.17	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	1.82	0.500	--	5.38	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.054	0.020	--	0.339	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

**Project Name:** ALVAREZ HIGH SCHOOL**Lab Number:** L1105798**Project Number:** 14687.01**Report Date:** 05/04/11**SAMPLE RESULTS**

Lab ID: L1105798-05  
 Client ID: IMP-1  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 09:33  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.552	0.050	--	2.08	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.215	0.020	--	1.46	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.084	0.020	--	0.364	0.087	--		1
p/m-Xylene	0.251	0.040	--	1.09	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	0.177	0.020	--	0.753	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.104	0.020	--	0.451	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	0.122	0.020	--	0.599	0.098	--		1
1,2,4-Trimethylbenzene	0.419	0.020	--	2.06	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.178	0.020	--	1.07	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

**Project Name:** ALVAREZ HIGH SCHOOL

**Lab Number:** L1105798

**Project Number:** 14687.01

**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-05  
 Client ID: IMP-1  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 09:33  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	106		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	100		60-140

**Project Name:** ALVAREZ HIGH SCHOOL**Lab Number:** L1105798**Project Number:** 14687.01**Report Date:** 05/04/11**SAMPLE RESULTS**

Lab ID: L1105798-06  
 Client ID: IMP-3  
 Sample Location: PROVIDENCE, RI  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/30/11 02:40  
 Analyst: RY

Date Collected: 04/27/11 09:35  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.467	0.050	--	2.31	0.247	--		1
Chloromethane	0.627	0.500	--	1.29	1.03	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	24.5	2.00	--	58.2	4.75	--		1
Trichlorofluoromethane	0.451	0.050	--	2.53	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	3.53	0.500	--	10.4	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.025	0.020	--	0.122	0.098	--		1
1,2-Dichloroethane	0.020	0.020	--	0.081	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.100	0.100	--	0.319	0.319	--		1
Carbon tetrachloride	0.052	0.020	--	0.327	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	0.290	0.020	--	1.56	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	0.818	0.500	--	3.35	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-06  
 Client ID: IMP-3  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 09:35  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.430	0.050	--	1.62	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.292	0.020	--	1.98	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	0.117	0.020	--	0.508	0.087	--		1
p/m-Xylene	0.333	0.040	--	1.44	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	0.176	0.020	--	0.749	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.127	0.020	--	0.551	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	0.072	0.020	--	0.354	0.098	--		1
1,2,4-Trimethylbenzene	0.222	0.020	--	1.09	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.206	0.020	--	1.24	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

**Project Name:** ALVAREZ HIGH SCHOOL

**Lab Number:** L1105798

**Project Number:** 14687.01

**Report Date:** 05/04/11

**SAMPLE RESULTS**

Lab ID: L1105798-06  
 Client ID: IMP-3  
 Sample Location: PROVIDENCE, RI

Date Collected: 04/27/11 09:35  
 Date Received: 04/28/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	103		60-140



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1105798

Project Number: 14687.01

Report Date: 05/04/11

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/29/11 15:57

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s). 01-06 Batch: WG465447-4								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1105798

Project Number: 14687.01

Report Date: 05/04/11

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 04/29/11 15:57

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG465447-4								
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

Parameter	LCS		LCSD		%Recovery Limits		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG465447-3									
Dichlorodifluoromethane	102	-	-	-	70-130	-	-	-	25
Chloromethane	100	-	-	-	70-130	-	-	-	25
Vinyl chloride	110	-	-	-	70-130	-	-	-	25
Chloroethane	106	-	-	-	70-130	-	-	-	25
Acetone	92	-	-	-	70-130	-	-	-	25
Trichlorofluoromethane	100	-	-	-	70-130	-	-	-	25
Acrylonitrile	103	-	-	-	70-130	-	-	-	25
1,1-Dichloroethene	100	-	-	-	70-130	-	-	-	25
Methylene chloride	97	-	-	-	70-130	-	-	-	25
trans-1,2-Dichloroethene	93	-	-	-	70-130	-	-	-	25
1,1-Dichloroethane	98	-	-	-	70-130	-	-	-	25
Methyl tert butyl ether	87	-	-	-	70-130	-	-	-	25
2-Butanone	79	-	-	-	70-130	-	-	-	25
cis-1,2-Dichloroethene	100	-	-	-	70-130	-	-	-	25
Chloroform	106	-	-	-	70-130	-	-	-	25
1,2-Dichloroethane	98	-	-	-	70-130	-	-	-	25
1,1,1-Trichloroethane	90	-	-	-	70-130	-	-	-	25
Benzene	89	-	-	-	70-130	-	-	-	25
Carbon tetrachloride	89	-	-	-	70-130	-	-	-	25
1,2-Dichloropropane	101	-	-	-	70-130	-	-	-	25
Bromodichloromethane	92	-	-	-	70-130	-	-	-	25

### Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL  
 Project Number: 14687.01

Lab Number: L1105798  
 Report Date: 05/04/11

Parameter	LCS		LCS D		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s) 01-06 Batch: WG465447-3									
Trichloroethene	100	-	-	-	70-130	-	-	25	
cis-1,3-Dichloropropene	102	-	-	-	70-130	-	-	25	
4-Methyl-2-pentanone	83	-	-	-	70-130	-	-	25	
trans-1,3-Dichloropropene	85	-	-	-	70-130	-	-	25	
1,1,2-Trichloroethane	103	-	-	-	70-130	-	-	25	
Toluene	97	-	-	-	70-130	-	-	25	
Dibromochloromethane	107	-	-	-	70-130	-	-	25	
1,2-Dibromoethane	116	-	-	-	70-130	-	-	25	
Tetrachloroethene	109	-	-	-	70-130	-	-	25	
1,1,1,2-Tetrachloroethane	111	-	-	-	70-130	-	-	25	
Chlorobenzene	112	-	-	-	70-130	-	-	25	
Ethylbenzene	111	-	-	-	70-130	-	-	25	
p/m-Xylene	113	-	-	-	70-130	-	-	25	
Bromoform	107	-	-	-	70-130	-	-	25	
Styrene	118	-	-	-	70-130	-	-	25	
1,1,2,2-Tetrachloroethane	116	-	-	-	70-130	-	-	25	
o-Xylene	113	-	-	-	70-130	-	-	25	
Isopropylbenzene	115	-	-	-	70-130	-	-	25	
1,3,5-Trimethylbenzene	116	-	-	-	70-130	-	-	25	
1,2,4-Trimethylbenzene	120	-	-	-	70-130	-	-	25	
1,3-Dichlorobenzene	125	-	-	-	70-130	-	-	25	

**Lab Control Sample Analysis**  
Batch Quality Control

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

Parameter	LCS		LCSD		%Recovery Limits		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual			
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG465447-3									
1,4-Dichlorobenzene	123	-	-	-	70-130	-	-	-	25
sec-Butylbenzene	118	-	-	-	70-130	-	-	-	25
p-Isopropyltoluene	108	-	-	-	70-130	-	-	-	25
1,2-Dichlorobenzene	123	-	-	-	70-130	-	-	-	25
n-Butylbenzene	113	-	-	-	70-130	-	-	-	25

### Lab Duplicate Analysis Batch Quality Control

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG465447-5 QC Sample: L1105798-03 Client ID: MP-7						
Dichlorodifluoromethane	0.458	0.455	ppbV	1		25
Chloromethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
Chloroethane	0.031	0.030	ppbV	3		25
Acetone	92.7E	92.8E	ppbV	0		25
Trichlorofluoromethane	0.578	0.570	ppbV	1		25
Acrylonitrile	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	3.82	3.87	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	0.024	0.025	ppbV	4		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.053	0.053	ppbV	0		25

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG465447-5 QC Sample: L1105798-03 Client ID: MP-7					
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Trichloroethene	0.166	0.164	ppbV	1	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.333	0.342	ppbV	3	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	0.226	0.230	ppbV	2	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	0.066	0.068	ppbV	3	25
p/m-Xylene	0.205	0.208	ppbV	1	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	0.086	0.089	ppbV	3	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	0.085	0.086	ppbV	1	25

### Lab Duplicate Analysis Batch Quality Control

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG465447-5 QC Sample: L1105798-03 Client ID: MP-7					
Isopropylbenzene	ND	ND	ppbv	NC	25
1,3,5-Trimethylbenzene	0.075	0.076	ppbv	1	25
1,2,4-Trimethylbenzene	0.253	0.260	ppbv	3	25
1,3-Dichlorobenzene	0.026	0.028	ppbv	7	25
1,4-Dichlorobenzene	0.161	0.166	ppbv	3	25
sec-Butylbenzene	ND	ND	ppbv	NC	25
p-Isopropyltoluene	ND	ND	ppbv	NC	25
1,2-Dichlorobenzene	ND	ND	ppbv	NC	25
n-Butylbenzene	ND	ND	ppbv	NC	25

Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG465447-5 QC Sample: L1105798-03 Client ID: MP-7					
Acetone	74.1	80.5	ppbv	8	25





Project Name: ALVAREZ HIGH SCHOOL

Serial\_No:05041114:18

Lab Number: L1105798

Project Number: 14687.01

Report Date: 05/04/11

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1105798-01	MP-2	0449	#90 SV		-	-	70	72	3
L1105798-01	MP-2	514	2.7L Can	L1105334	-29.5	-4.8	-	-	-
L1105798-02	MP-5	0090	#20 AMB		-	-	69	78	12
L1105798-02	MP-5	1717	2.7L Can	L1105334	-29.5	-1.2	-	-	-
L1105798-03	MP-7	0301	#90 SV		-	-	66	70	6
L1105798-03	MP-7	482	2.7L Can	L1105334	-29.0	-5.7	-	-	-
L1105798-04	MP-8	0224	#90 SV		-	-	72	77	7
L1105798-04	MP-8	529	2.7L Can	L1105334	-29.2	-1.4	-	-	-
L1105798-05	IMP-1	0429	#90 SV		-	-	72	80	11
L1105798-05	IMP-1	1729	2.7L Can	L1105334	-29.5	-0.5	-	-	-
L1105798-06	IMP-3	0424	#90 SV		-	-	70	77	10
L1105798-06	IMP-3	474	2.7L Can	L1105334	-29.5	-1.2	-	-	-



## **Air Volatiles Can Certification**

**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1105334**Project Number:** CANISTER QC BAT**Report Date:** 05/04/11**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 04/21/11 16:10  
 Analyst: BS

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.860	--		1
Propane	ND	0.200	--	ND	0.606	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.841	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.14	--		1
Acetone	ND	1.00	--	ND	2.37	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1105334**Project Number:** CANISTER QC BAT**Report Date:** 05/04/11**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.622	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.720	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.589	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.589	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.923	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.704	--		1
Diisopropyl ether	ND	0.200	--	ND	0.835	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.835	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.907	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.835	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.720	--		1

**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1105334**Project Number:** CANISTER QC BAT**Report Date:** 05/04/11**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-1-pentene	ND	0.500	--	ND	2.29	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.819	--		1
2,4,4-trimethyl-2-pentene	ND	0.500	--	ND	2.29	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.923	--		1
2-Hexanone	ND	0.200	--	ND	0.819	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.37	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.06	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.20	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.982	--		1

**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1105334**Project Number:** CANISTER QC BAT**Report Date:** 05/04/11**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	--	ND	1.28	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
n-Propylbenzene	ND	0.200	--	ND	0.982	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.03	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.982	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1105334  
**Report Date:** 05/04/11

**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	111		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	107		60-140



**Project Name:** BATCH CANISTER CERTIFICATION**Lab Number:** L1105334**Project Number:** CANISTER QC BAT**Report Date:** 05/04/11**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/21/11 16:10  
 Analyst: BS

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.08	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.403	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1105334  
**Report Date:** 05/04/11

### Air Canister Certification Results

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.206	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1105334  
**Report Date:** 05/04/11

**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1105334  
**Report Date:** 05/04/11

**Air Canister Certification Results**

Lab ID: L1105334-01  
 Client ID: CAN 369 SHELF 8  
 Sample Location:

Date Collected: 04/19/11 00:00  
 Date Received: 04/19/11  
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140



# **AIR Petro Can Certification**

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L1105334  
**Report Date:** 05/04/11

**AIR CAN CERTIFICATION RESULTS**

**Lab ID:** L1105334-01  
**Client ID:** CAN 369 SHELF 8  
**Sample Location:** Not Specified  
**Matrix:** Air  
**Analytical Method:** 96,APH  
**Analytical Date:** 04/22/11 16:50  
**Analyst:** RY

**Date Collected:** 04/19/11 00:00  
**Date Received:** 04/19/11  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbons in Air - Mansfield Lab</b>						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	ND		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1105798

Project Number: 14687.01

Report Date: 05/04/11

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

N/A Present/Intact

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1105798-01A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-02A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-03A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-04A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-05A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-06A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)

\*Values in parentheses indicate holding time in days

**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

## GLOSSARY

### Acronyms

- EPA · Environmental Protection Agency.
- LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD · Laboratory Control Sample Duplicate: Refer to LCS.
- MDL · Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD · Matrix Spike Sample Duplicate: Refer to MS.
- NA · Not Applicable.
- NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI · Not Ignitable.
- RL · Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** · Spectra identified as "Aldol Condensation Product".
- B** · The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D** · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** · The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** · The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P** · The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** · The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when

Report Format: Data Usability Report

**Project Name:** ALVAREZ HIGH SCHOOL

**Lab Number:** L1105798

**Project Number:** 14687.01

**Report Date:** 05/04/11

*Data Qualifiers*

the sample concentrations are less than 5x the RL. (Metals only.)

**R** · Analytical results are from sample re-analysis.

**RE** · Analytical results are from sample re-extraction.

**J** · Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

**ND** · Not detected at the reporting limit (RL) for the sample.



**Project Name:** ALVAREZ HIGH SCHOOL  
**Project Number:** 14687.01

**Lab Number:** L1105798  
**Report Date:** 05/04/11

### REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

### LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

## Certificate/Approval Program Summary

Last revised March 23, 2011 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

### Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

*Wastewater/Non-Potable Water* (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

*Solid Waste/Soil* (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

### Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

*Solid & Chemical Materials* (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

*Air & Emissions* (EPA TO-15.)

### Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C.)

*Biological Tissue* (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C.)

*Air & Emissions* (EPA TO-15.)

### New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: EPA, 245.1, 245.7, 1631E, 180.1, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081, 8082, 8260B, 8270C.)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7470A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082, 8081A.)

### New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, EPA 200.8, SM2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 7470A, 9040B, 6020, 9010B, 9014 Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B, 8081A, 8082, 8260B, 8270C)

*Solid & Chemical Materials* (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

*Atmospheric Organic Parameters* (EPA TO-15)

*Biological Tissue* (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3630C, 3640A)

**New York Department of Health** Certificate/Lab ID: 11627. **NELAP Accredited.**

*Non-Potable Water* (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 9014, 9040B, 120.1, SM2510B, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

*Air & Emissions* (EPA TO-15.)

**Rhode Island Department of Health** Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ.**

Refer to LA-DEQ Certificate for Non-Potable Water.

**Texas Commission of Environmental Quality** Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

*Solid & Chemical Materials* (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

*Air* (Organic Parameters: EPA TO-15)

**Washington State Department of Ecology** Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

*Solid & Chemical Materials* (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

**U.S. Army Corps of Engineers**

**Department of Defense** Certificate/Lab ID: L2217.01.

*Non-Potable Water* (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

*Solid & Hazardous Waste* (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

*Air & Emissions* (EPA TO-15.)

#### **Analytes Not Accredited by NELAP**

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

# AIR ANALYSIS

PAGE 2 OF 2

**ALPHA CHAIN OF CUSTODY**  
 320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

**Client Information**

Client: EA Engineering  
 Address: 2374 Post Road  
Suite 102  
 Phone: 501-736-3440  
 Fax: 501-736-3423  
 Email: smack@east.com

**Project Information**

Project Name: Alvarez High School  
 Project Location: Providence, RI  
 Project #: 14687.01  
 Project Manager: Frank Postma  
 ALPHA Quote #:  
 Turn-Around Time  
 Standard  RUSH (only confirmed if pre-approved)  
 Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

**Date Rec'd in Lab:**

**Report Information - Data Deliverables**

FAX  
 ADEX  
 Criteria Checker:  
 (Default based on Regulatory Criteria Indicated)  
 Other Formats:  
 EMAIL (standard pdf report)  
 Additional Deliverables:  
 Report to: (if different than Project Manager)  
smack@east.com

**Billing Information**

Same as Client info PO #:

ALPHA Job #: L1105798

**Regulatory Requirements/Report Limits**

State/Fed \_\_\_\_\_ Program \_\_\_\_\_ Criteria \_\_\_\_\_

**ANALYSIS**

These samples have been previously analyzed by Alpha  
 Other Project Specific Requirements/Comments:

**All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection			Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	Sample Comments (i.e. PID)		
		Date	Start Time	End Time							Initial Vacuum	Final Vacuum
5798-01	MP-2	4/27/04	1022	1052	-29.54	-5.61	SV	PT/MT	2.7	514	0449	223 ppb
02	MP-5		1044	1116	-30.02	-2.14				1717	0090	240 ppb
03	MP-7		1057	1106	-29.25	-6.23				482	0301	200 ppb
04	MP-8		1030	1100	-29.25	-1.65				529	0224	219 ppb
05	IMP-1		0900	0933	-29.81	0.0				1729	0429	355 ppb
06	IMP-3		0905	0935	-29.65	-1.73				474	0424	363 ppb

**\*SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

**Container Type**

Relinquished By: [Signature] Date/Time: 4/28/04 1102  
 Received By: [Signature] Date/Time: 4/28/04 1102

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

***APPENDIX D***

***Rooftop Effluent  
Analytical Summary***



Altavarez School - Sub Slab Depressurization System Emissions Calculations  
Sample Date - 16 July 2010

Volatile Organic Compounds	ROOFTOP FAN 1 (Measured air flow = 108 cubic feet per minute)			ROOFTOP FAN 2 (Measured air flow = 190 cubic feet per minute)			ROOFTOP FAN 3 (Measured air flow = 124 cubic feet per minute)			CUMULATIVE EMISSIONS (3 fans combined)			
	Concentration (ug/m <sup>3</sup> )	Hourly Emission (lbs/day)	Yearly Emission (lbs/year)	Concentration (ug/m <sup>3</sup> )	Hourly Emission (lbs/day)	Yearly Emission (lbs/year)	Concentration (ug/m <sup>3</sup> )	Hourly Emission (lbs/day)	Yearly Emission (lbs/year)	Hourly Emission (lbs/day)	Yearly Emission (lbs/year)	Hourly Emission (lbs/day)	Yearly Emission (lbs/year)
1,1,1-Trichloroethane	0.137	U	6.30E-06	0.137	U	6.30E-06	0.137	U	6.30E-06	0.137	U	6.30E-06	3.21E-06
1,1,1,2-Tetrachloroethane	2.870	U	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	4.87E-06
1,1,2,2-Tetrachloroethane	0.137	U	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	2.10E-06
1,1,2-Trichloroethane	0.109	U	4.91E-06	1.81E-06	1.81E-06	1.81E-06	1.81E-06	1.81E-06	1.81E-06	1.81E-06	1.81E-06	1.81E-06	5.95E-06
1,1-Dichloroethane	0.079	U	3.58E-06	8.58E-07	8.58E-07	8.58E-07	8.58E-07	8.58E-07	8.58E-07	8.58E-07	8.58E-07	8.58E-07	2.88E-06
1,2-Dichloroethane	2.660	U	1.20E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	2.89E-06	9.44E-06
1,2,4-Trichlorobenzene	0.154	U	6.97E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	1.67E-06	5.38E-06
1,2-Dibromobenzene	0.120	U	5.43E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	4.18E-06
1,2-Dichlorobenzene	0.092	U	4.16E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	3.26E-06
1,3,5-Trimethylbenzene	0.727	U	3.49E-06	7.90E-06	7.90E-06	7.90E-06	7.90E-06	7.90E-06	7.90E-06	7.90E-06	7.90E-06	7.90E-06	2.50E-06
1,3-Dichlorobenzene	0.120	U	5.43E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	4.18E-06
1,4-Dichlorobenzene	1.180	U	5.31E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	4.08E-06
2-Dimethylbenzene	10.000	U	4.53E-06	1.09E-06	1.09E-06	1.09E-06	1.09E-06	1.09E-06	1.09E-06	1.09E-06	1.09E-06	1.09E-06	3.28E-06
3-Dimethylbenzene	62.000	U	2.81E-05	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	2.10E-05
Acetone	0.319	U	1.47E-05	3.59E-06	3.59E-06	3.59E-06	3.59E-06	3.59E-06	3.59E-06	3.59E-06	3.59E-06	3.59E-06	1.13E-05
Acrylonitrile	0.370	U	1.67E-07	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	5.37E-05
Benzene	0.134	U	6.07E-08	1.46E-06	1.46E-06	1.46E-06	1.46E-06	1.46E-06	1.46E-06	1.46E-06	1.46E-06	1.46E-06	4.53E-06
Bromochloroethane	0.306	U	1.33E-08	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	3.04E-06
Carbon tetrachloride	0.459	U	2.70E-07	6.49E-06	6.49E-06	6.49E-06	6.49E-06	6.49E-06	6.49E-06	6.49E-06	6.49E-06	6.49E-06	2.01E-05
Chlorobenzene	0.052	U	4.16E-08	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	3.26E-06
Chloroform	0.066	U	2.99E-08	7.17E-07	7.17E-07	7.17E-07	7.17E-07	7.17E-07	7.17E-07	7.17E-07	7.17E-07	7.17E-07	2.21E-06
Chloromethane	0.385	U	1.74E-07	4.18E-06	4.18E-06	4.18E-06	4.18E-06	4.18E-06	4.18E-06	4.18E-06	4.18E-06	4.18E-06	1.28E-05
1,1,1,2-Tetrachloroethane	0.131	U	5.93E-08	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.45E-06	4.53E-06
1,1,2,2-Tetrachloroethane	0.091	U	4.17E-08	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	9.89E-07	3.04E-06
Dibromochloroethane	0.170	U	7.09E-08	1.83E-06	1.83E-06	1.83E-06	1.83E-06	1.83E-06	1.83E-06	1.83E-06	1.83E-06	1.83E-06	5.61E-06
Dichlorodifluoromethane	3.840	U	1.74E-06	4.17E-05	4.17E-05	4.17E-05	4.17E-05	4.17E-05	4.17E-05	4.17E-05	4.17E-05	4.17E-05	1.28E-04
Difluoromethane	0.547	U	2.48E-07	5.94E-06	5.94E-06	5.94E-06	5.94E-06	5.94E-06	5.94E-06	5.94E-06	5.94E-06	5.94E-06	1.82E-05
Isopropylbenzene	2.460	U	1.17E-06	2.67E-05	2.67E-05	2.67E-05	2.67E-05	2.67E-05	2.67E-05	2.67E-05	2.67E-05	2.67E-05	8.14E-05
Methyl tert butyl ether	0.072	U	3.26E-08	7.87E-07	7.87E-07	7.87E-07	7.87E-07	7.87E-07	7.87E-07	7.87E-07	7.87E-07	7.87E-07	2.41E-06
Methylene chloride	18.500	U	8.28E-06	1.99E-04	1.99E-04	1.99E-04	1.99E-04	1.99E-04	1.99E-04	1.99E-04	1.99E-04	1.99E-04	6.14E-04
n-Butylbenzene	2.240	U	1.24E-06	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	9.14E-05
n-Dodecane	0.608	U	3.16E-07	7.53E-06	7.53E-06	7.53E-06	7.53E-06	7.53E-06	7.53E-06	7.53E-06	7.53E-06	7.53E-06	2.32E-05
n-Propylbenzene	2.440	U	1.24E-06	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	9.14E-05
o-Xylene	0.332	U	1.45E-06	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	1.10E-04
p-Xylene	2.640	U	1.24E-06	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	2.98E-05	9.14E-05
Styrene	0.332	U	1.45E-06	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	3.61E-05	1.10E-04
Toluene	34.000	U	8.28E-05	3.78E-04	3.78E-04	3.78E-04	3.78E-04	3.78E-04	3.78E-04	3.78E-04	3.78E-04	3.78E-04	1.16E-03
trans-1,2-Dichloroethane	0.079	U	3.58E-07	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	2.75E-05
trans-1,3-Dichloroethane	0.079	U	3.58E-07	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	8.86E-06	2.75E-05
Trichloroethene	112.000	U	5.07E-05	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	2.61E-03
Trichlorofluoromethane	78.400	U	3.55E-05	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	8.57E-04	2.61E-03
Vinyl chloride	0.051	U	2.31E-08	5.84E-07	5.84E-07	5.84E-07	5.84E-07	5.84E-07	5.84E-07	5.84E-07	5.84E-07	5.84E-07	1.81E-06
Total VOC's	3.51E+02	Not Applicable	Not Applicable	1.24E+00	1.24E+00	1.24E+00	1.24E+00	1.24E+00	1.24E+00	1.24E+00	1.24E+00	1.24E+00	3.96E+00
RIDPM Air Pollution Control Permit Applicability Thresholds (lbs) *	10	100	50,000 (Total VOC's)	10	100	50,000 (Total VOC)	10	100	50,000 (Total VOC's)	10	100	50,000 (Total VOC's)	20,000 (Individual VOC's) 50,000 (Total VOC's)
	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

U - indicates that chemical was not detected by the laboratory. To be conservative, the reporting limit shown in the concentration column was used in the emissions calculations.  
 Hourly Emissions (lbs/day) = VOC Concentration (ug/m<sup>3</sup>) x Measured flow rate (cfm) x 0.0283 m<sup>3</sup>/ft<sup>3</sup> x 60 min/hour x 0.001 mg/ug x 0.0022 lb/cf.  
 Daily Emissions (lbs/day) = Hourly Emissions x 24 hours/day.  
 Yearly Emissions (lbs/year) = Daily Emissions x 365 days/year.  
 \* RIDPM Air Pollution Control Regulation No. 9 (Amended April 2004).





***APPENDIX E***

***Laboratory Reporting  
Limits Correspondence***





May 4, 2011

**To:** Ron Mack  
EA Engineering, Science, & Technology  
2350 Post Road  
Warwick, RI 02886

**From:** Katie O'Brien  
Alpha Analytical  
320 Forbes Blvd  
Mansfield, MA 01581

**Re:** TO15 SIM Reporting Limits

Dear Ron,

As we communicated prior to the TO-15 SIM analyses completed for the Alvarez High School air samples collected on April 27, 2011; the SIM Reporting Limits achieved for the following compounds are the lowest that we can currently achieve at Alpha. Please note that these reporting limits are above the Draft Proposed CT RSR (Residential) Criteria for these compounds:

1,2-Dichloroethane SIM RL = 0.08 ug/m<sup>3</sup>  
Ethylene Dibromide (a.k.a. 1,2-Dibromoethane) SIM RL = 0.15 ug/m<sup>3</sup>  
1,1,1,2- Tetrachloroethane SIM RL = 0.14 ug/m<sup>3</sup>  
1,1,2,2-Tetrachloroethane SIM RL = 0.14 ug/m<sup>3</sup>  
Bromodichloromethane SIM RL = 0.13 ug/m<sup>3</sup>

Please don't hesitate to contact me at 508-844-4156 if you have any questions.

Best Regards,

Katie O'Brien

