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February 4, 2009

Jamey Watt
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region IX (SFD-8-2)
75 Hawthorne Street
San Francisco, CA 94105-3901

Re: RESPONSE TO EPA COMMENTS
Draft Results of Soil and Soil-Vapor Sampling
Hohokam Elementary School

Dear Mr. Watt:

Errol L. Montgomery & Associates, Inc. (M&A) has finalized the enclosed report entitled *Results of Soil and Soil-Vapor Sampling, Hohokam Elementary School*, dated February 4, 2009 (HES Results Report) in response to EPA's January 23, 2009 *Comment Letter – draft Hohokam Sampling Report dated 12/12/2008, North Indian Bend Wash Superfund Site, Phoenix / Scottsdale, AZ.* For those comments that could not be specifically addressed in the HES Results Report or required additional explanation, M&A has prepared the following responses.

- With respect to EPA comment number 2, regarding the possibility to calculate a California Human Health Screening Level (CHHSL) for chloroform even though a screening level is not listed in the table, M&A responds as follows:

  A residential land use CHHSL for chloroform of 45.2 micrograms per cubic meter ($\mu g/m^3$) was derived using California Environmental Protection Agency (Cal/EPA) guidance *"Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties"*, dated January 2005, for existing structures on non-engineered fill. The derivation assumes that the measured soil-vapor concentration is present directly beneath the slab (at 7.5 inches below land surface), a conservative assumption. Additionally, for completeness, a CHHSL for 1,1-dichloroethene (DCE) of 31,400 $\mu g/m^3$ was derived following the same methodology.

- With respect to ADEQ comment number 4, regarding Air Toxics' review of raw analytical data and the reference to reporting levels of this analysis, M&A responds as follows:

  M&A decided to remove the text related to this comment in an attempt to dispel confusion. However, for clarification purposes, the method detection limits (MDLs) of 0.37 $\mu g/m^3$ for TCE and 0.67 $\mu g/m^3$ for PCE are instrument and laboratory specific limits of detection for the test method, as developed by Air Toxics. The MDLs are not method reporting limits (MRLs) [or practical quantitation limits (PQLs)]. In specific terms this means that Air Toxics review of raw data confirmed there were no detectable levels of TCE or PCE at the threshold MDL, which are an order of magnitude less than the MRLs/PQLs. However, only the MRLs/PQLs can be reported and are included in Table 3 of the report.

- With respect to ADEQ comment number 5, regarding the electronic Comprehensive Validation Package (eCVP) provided by Air Toxics being inappropriate because Air Toxics is not a third party data evaluation firm, M&A responds as follows:

  M&A appreciates the comment and did not intend to imply that the eCVP was being submitted as validated data by a third party. Indeed the eCVP was provided by Air Toxics as an electronic compilation of all raw data equivalent to a Level IV data package for the requested sample analyses. M&A requested eCVPs from Air Toxics in order to review all the available data prepared for each sample result.

- With respect to ADEQ comment number 9, regarding the Analytical Laboratory Reports for Soil-Vapor Samples included as Appendix B and why data qualifier D1 (dilution) was used for only samples HES-SG-1, HES-SG-4, and HES-SG-7 from the July 31 sampling, M&A responds as follows:

  The samples identified required dilution for the following reasons:

  - There was not sufficient sample volume collected in the canister to analyze without dilution (HES-SG-1); and,
  - There were large carbon dioxide peaks which affected the first internal standard, and results could not be reported without diluting the samples to decrease the presence of carbon dioxide (HES-SG-4 and HES-SG-7).

  Although dilution was required for these samples, the adjusted reporting limits were all well below the respective CHHSLs.

Please let me know if you have any questions.

Very truly yours,

Dennis H. Shirley, P.G.

cc: Dawn Richmond, Environmental Protection Agency
Michele Benson, Environmental Protection Agency (via electronic copy)
Stan Smucker, Environmental Protection Agency (via electronic copy)
Marlon Mezquita, Environmental Protection Agency (via electronic copy)
Robert Peeples, Arizona Department of Environmental Quality
Don Atkinson, Arizona Department of Environmental Quality
Terry Lockwood, Motorola, Inc.
James Lutton, NIBW Participating Companies (via electronic copy)
Larry Phillips, ITSI, Inc. (via electronic copy)
Karol Wolf, Salt River Project (via electronic copy)
Craig Miller, City of Scottsdale (via electronic copy)

RESULTS OF SOIL AND SOIL-VAPOR SAMPLING HOHOKAM ELEMENTARY SCHOOL Scottsdale, Arizona

February 4, 2009

Prepared by:

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ERROL L. MONTGOMERY & ASSOCIATES, INC.

RESULTS OF SOIL AND SOIL-VAPOR SAMPLING
HOHOKAM ELEMENTARY SCHOOL
SCOTTSDALE, ARIZONA

February 4, 2009

1.0 INTRODUCTION

This document summarizes the results of sampling and analysis of surface and near-surface soil and sub-surface soil-vapor near Hohokam Elementary School (HES), located on the southeast corner of Granite Reef Road and East Oak Street, Scottsdale, Arizona (see **Figure 1**). The sampling program was conducted in accordance with methodologies prescribed in the final *Soil and Soil-Vapor Sampling and Analysis Plan, Hohokam Elementary School, Scottsdale, Arizona* dated July 24, 2008. The SAP was subsequently approved by the Environmental Protection Agency (EPA) on July 25, 2008. This investigation was conducted by Errol L. Montgomery & Associates (M&A) under EPA oversight and was limited to the following EPA-specified volatile organic compounds (VOCs): trichloroethene (TCE), tetrachloroethene (PCE), 1,1,1-trichloroethane (TCA), 1,1-dichloroethene (DCE), and chloroform. A Technical Memorandum describing field sampling activities and results obtained by EPA's oversight contractors was issued by Innovative Technical Solutions, Inc. on January 23, 2009.

Sampling and analysis of soil and soil vapor was conducted in response to concerns that irrigation water possibly containing groundwater with VOCs may have impacted HES playgrounds and contributed to potential public exposure. Irrigation water is delivered to the school from a Salt River Project (SRP) distribution lateral via buried piping. Irrigation water supplied to this lateral is typically a combination of surface water and groundwater. Surface water is supplied to the lateral from the Arizona Canal and four SRP irrigation wells (see **Figure 2**). The four wells (designated as 23.3E-7.3N, 23.3E-7.5N, 23.5E-8.8N, and 23.3E-9.5N) were drilled between 1949 and 1957 and have been in operation since that time. SRP

utilizes both surface water and groundwater to meet system demands. Actual water supply to SRP distribution lateral 1.5 (supplying HES) for the period from 1984 to 1992 is shown in **Figure 3** and indicates the water demand was met using a variety of sources. In general, water supply during this time frame was mostly derived from surface water. Groundwater, when pumped to the irrigation lateral from wells in the NIBW Site, was likely blended with other sources. SRP wells in the NIBW Site were not used for irrigation since approximately 1993 (although SRP 23.3E-7.5N was returned to irrigation use in 2000).

The laboratory analytical results of soil sampling indicate that no VOCs were detected above the EPA Regional Risk-Based Screening Levels (formerly known as the Preliminary Remediation Goals) for residential soil (see **Table 1**). Soil samples were collected at all eight locations during July 2008 by M&A and EPA's oversight consultant (CH2M Hill). Additional soil samples were collected during October 2008 at locations 3 and 6 by EPA's new oversight consultant Innovative Technical Solutions, Inc. (ITSI), who was awarded the EPA Remedial Action Contract in September 2008 to perform oversight for superfund sites in the region.

The laboratory analytical results indicated that TCE, PCE and TCA were detected above the respective method reporting limits (MRLs), but not above respective risk levels, in shallow soil-vapor at several sampling locations during the July 2008 sampling. However, those results were not confirmed in split samples collected from the same locations by CH2M Hill (see **Table 2**). Due to the inconsistency with the split samples, the July M&A soil-vapor sampling results did not pass inter-laboratory data evaluation, and a re-sampling event was conducted during October 2008. Detected concentrations of TCE and PCE in soil-vapor screening performed in October were substantially below residential risk-based screening levels (100 times and 30 times, respectively) established by the California EPA (Cal/EPA) for potential human health exposure (see **Table 3**). The California Human Health Screening Levels (CHHSLs) are designed to evaluate the potential impact of VOCs in soil gas into the indoor air of overlying buildings (an electronic link to the Cal/EPA CHHSLs is

found at http://www.epa.gov/region09/waste/sfund/prg/). TCA and DCE were not detected in any of the soil-vapor samples in October 2008. The laboratory analytical results indicated detectable concentrations of chloroform in six of the eight soil-vapor sampling sites. According to the U.S. Geologic Survey, chloroform in groundwater is commonly associated with water supplies that have been treated with chlorine as a disinfectant (Ivahnenko and Zogorski, 2006). A CHHSL for chloroform of 45.2 micrograms per cubic meter ($\mu g/m^3$) was derived using Cal/EPA CHHSLs guidance, dated January 2005, for existing structures on non-engineered fill.

2.0 SAMPLING PROCEDURES

M&A conducted soil and soil-vapor sampling on July 31, 2008 and conducted soil-vapor re-sampling on October 10, 2008. All sampling was performed in accordance with the methodologies prescribed in the SAP.

2.1 SOIL SAMPLING

M&A collected one 300 cubic centimeter soil sample at each of eight locations (see **Figure 4**) as described in the SAP in July 2008. Soil samples were collected from land surface to a depth of two feet below land surface (bls) utilizing a hydraulically operated Bobcat S160 mounted drive probe and drive sampler with cellulose acetate butyrate (CAB) liners.

A test core was prepared to characterize the lithology from zero to two feet bls to target the presence of any relatively fine grain units to which VOCs would tend to more readily adsorb. The test sample consisted of a homogeneous non-lithified, moderately cohesive, fine grain, sandy clayey silt with a very strong reaction to acid. At one foot bls, a thin layer/lens of calcium carbonate was present.

Each soil sample was collected by coring to approximately two feet bls and preparing a six-inch by two-inch sample from the six to twelve inch interval. Preparation of each sample consisted of cutting the CAB liner at six inches below top of soil sample and immediately sealing with a Teflon sheet and red vinyl cap. The CAB liner was measured and cut six inches below previous cut and immediately sealed with a Teflon sheet and a black vinyl cap. Each CAB liner was labeled at the center of each tube with the location number using an indelible marker, placed in a one-gallon zip-lock bag, and then into a cooler with wet ice. The red vinyl cap represented the top of the sample (i.e. six inches bls) and the black vinyl cap represented the bottom of the sample (i.e. twelve inches bls). The laboratory was instructed to obtain representative soil from the center of the six-inch sample within 48-hours of sample collection and analyze for TCE, PCE, TCA, DCE and chloroform according to EPA Test Method 8260B.

During the July 31, 2008 soil sampling activities, EPA's oversight consultant, CH2M Hill, collected split samples at Locations 2, 4, and 6. During the October 10, 2008 soil-vapor re-sampling activities, ITSI collected soil samples at Locations 3 and 6. M&A did not collect soil samples in October.

2.2 SOIL-VAPOR SAMPLING

M&A collected soil-vapor samples in July and October 2008 from a depth of approximately 6.5 feet bls utilizing the hydraulically operated Bobcat S160 mounted drive probe and sampling tip. At each sample location, the probe and sampling tip were driven to an approximate depth of seven feet bls and pulled back approximately six inches to expose the sampling tip perforations to soil-vapor. The drive head was removed and new 1/8-inch OD, Nylaflow® sample tubing was attached to a vacuum pump and purged at 200 milliliters/minute (mL/min) for approximately three minutes. After completion of purging, the quick-connect fitting for the 1-liter (L) silonite canister and the 1-L Summa® canister sample train were connected to the sampling manifold constructed of Nylaflow® tubing and control valves (see photo).

To initiate sampling the manifold valving was opened, the silonite canister intake port was connected to the quick-connect flow controller, and the intake valve for the Summa® canister sample train was opened. ITSI collected soil-vapor samples from the sampling manifold at each location with a blind duplicate collected at Location 2. M&A collected blind duplicates from Location 3 (using an additional Air Toxics, Ltd. Summa® canister sample train) and from Location 6 (using an additional TestAmerica silonite canister).

During soil-vapor sampling, ambient air may directly enter a subsurface sample stream through openings or cracks in the bentonite seal at the top of the borehole. To test for the presence of ambient air leakage, a cheese cloth was saturated with DUST-OFF®, a common commercially used dust removing product for computers and other electronic equipment, which contains an effective tracer compound known as 1,1-difluoroethane (DFA). The cheese cloth was placed on each bentonite seal during purging and sampling activities. Consequently, in addition to analysis of TCE, PCE, TCA, DCE and chloroform following EPA Test Method TO-15, DFA analysis was requested. The presence of DFA could impact or possibly invalidate the results.

At the conclusion of sampling at each location, the in-situ vapor probe equipment was washed in Alconox and purified water and then triple rinsed with purified water. The

internal walls of all Nylaflow® tubing, including the sampling manifold, were cleaned with nitrogen gas.

The laboratory analytical results for the M&A soil-vapor samples collected on July 31, 2008 were not confirmed in split samples collected from the same locations by CH2M Hill. Therefore, M&A conducted re-sampling on October 10, 2008 with EPA oversight and participation. During the re-sampling activities, each soil-vapor sample was collected in a pre-cleaned, individually-certified and pre-evacuated (to greater than 25 inches mercury) 1-L silonite canister with a dedicated quick-connect flow controller provided by TestAmerica of Phoenix, Arizona. In addition, a split sample was collected by M&A at each location in a pre-cleaned, individually-certified and pre-evacuated (to greater than 25 inches mercury) 1-L Summa® canister with certified flow controller and vacuum gauge (i.e., sample train) provided by Air Toxics Ltd. of Folsom, California. Flow controllers were calibrated by each laboratory to allow a constant fill rate of approximately 200 mL for an estimated 5-minute sampling period.

3.0 SUMMARY OF ANALYTICAL DATA

The results of all soil samples collected by M&A and CH2M Hill on July 31, 2008 and ITSI on October 10, 2008 are summarized in **Table 1**. The laboratory analytical results indicate that TCE, PCE, TCA, DCE and chloroform were all below the applicable MRLs, and also below the EPA Regional Risk-Based Screening Levels for residential soil for potential ingestion and inhalation exposure pathways.

The results of soil-vapor samples collected by M&A and CH2M Hill on July 31, 2008 are recorded in **Table 2**. The results of the soil-vapor re-samples collected by M&A and ITSI on October 10, 2008 are recorded in **Table 3**. These results are compared to residential risk-based screening levels established by Cal/EPA (with derived values for DCE and chloroform because a level had not been established for either compound) for potential

human health exposure (CHHSLs). These CHHSLs are designed to evaluate the potential impact of VOCs in soil gas into the indoor air of overlying buildings.

The July M&A soil-vapor sampling results did not pass inter-laboratory data evaluation due to inconsistency with split samples collected by CH2M Hill, EPA's oversight consultant. Further, these results were not confirmed in the re-sampling that occurred in October at the same locations. The laboratory analytical results for the soil-vapor re-sampling performed on October 10, 2008 indicate that DCE and TCA were below the respective MRLs for all samples collected, which were also below the respective CHHSLs. TCE was detected at one of the eight sample locations (Location 7) by TestAmerica at a concentration of 3.6 $\mu g/m^3$, which is below the CHHSL established for TCE of 528 $\mu g/m^3$. PCE was also detected at one of the eight sample locations (Location 8) by TestAmerica at a concentration of 5.6 $\mu g/m^3$, which is also below the CHHSL established for PCE of 180 $\mu g/m^3$. Neither TCE nor PCE were detected in any of the samples analyzed by Air Toxics, Ltd. or in samples collected for EPA by ITSI and analyzed by Columbia Analytical Services, Inc. Chloroform was detected at six of the eight sample locations, with concentrations ranging from 6.0 $\mu g/m^3$ to 26 $\mu g/m^3$ for samples analyzed by Air Toxics Ltd., from 6.8 $\mu g/m^3$ to 38 $\mu g/m^3$ for samples analyzed by TestAmerica, and from 7.1 $\mu g/m^3$ to 28 $\mu g/m^3$ for samples collected for EPA by ITSI and analyzed by Columbia Analytical Services, Inc.

The laboratory results indicated that the tracer compound was below the MRL for all samples collected by M&A. These data confirm that there was no leakage of ambient air into the soil-vapor samples and the samples obtained are representative of subsurface conditions. The samples collected for EPA by ITSI were not analyzed for the tracer compound DFA.

Laboratory analytical reports providing the results of sample analyses are presented in **Appendices A and B**. Level IV QC data packages prepared by TestAmerica and an

electronic Comprehensive Validation Package (eCVP) prepared by Air Toxics, Ltd. are provided as portable document format (PDF) files on compact disc in **Appendix C**.

4.0 QUALITY CONTROL

Laboratory quality control was evaluated using internal procedures defined by the analytical method and individual analytical laboratories. Laboratory Control Samples (LCS), Continuing Calibration Verification (CCV) samples, and surrogate compounds were analyzed to ensure analytical accuracy. A laboratory duplicate sample was analyzed by Air Toxics, Ltd. to ensure analytical precision. All TestAmerica and Air Toxics, Ltd. laboratory analytical reports for the October 10, 2008 sampling event indicate that laboratory quality control was maintained during sample analyses. No analytical discrepancies or data qualifiers were reported to impact the results.

Results and comparison of the split samples, using the blind duplicate and primary soil-vapor samples collected by M&A on October 10, 2008 (with at least one detected compound) are presented below. This evaluation was not necessary for the July 31, 2008 sampling round since there were no detectable VOCs in any of the soil samples collected.

Analyte	**TestAmerica - Location 6**		
	HES-SG-3 ($\mu g/m^3$)	HES-SG-9 ($\mu g/m^3$)	RPD (%)
Trichloroethene	ND	ND	--
Tetrachloroethene	ND	ND	--
Chloroform	19	19	0.0
1,1-Dichloroethene	ND	ND	--
1,1,1-Trichloroethane	ND	ND	--

Notes:
Concentrations presented as micrograms per cubic meter ($\mu g/m^3$)
ND = analyte not detected
RPD = Relative Percent Difference

A Relative Percent Differences (RPD) was calculated to determine the precision of sample analyses. As presented, the blind duplicate results for this sampling program provide acceptable precision.

5.0 CONCLUSION

The laboratory results of soil samples obtained on July 31, 2008 indicate that TCE, PCE, TCA, DCE and chloroform were not detected above the respective MRLs (and therefore not detected above the EPA Regional Risk-Based Screening Levels for residential soil) in any of the locations sampled.

The laboratory results of sub-surface soil-vapor samples obtained on October 10, 2008 indicate the presence of chloroform at six of eight sample locations. TCE and PCE were each detected at one of eight soil-vapor sample locations by one of the three analytical laboratories. TCA and DCE were not detected in any of the samples. Although the presence of TCE and PCE is not confirmed due to the fact that these compounds were absent in soil-vapor split samples, the October concentrations observed were at levels 100 times and 30 times, respectively, below California CHHSLs for shallow soil gas. The residential land use CHHSLs for shallow soil gas are 528 $\mu g/m^3$ for TCE and 180 $\mu g/m^3$ for PCE. The July and October concentrations of chloroform were all below the derived residential land use CHHSL of 45.2 $\mu g/m^3$.

6.0 REFERENCES CITED

California Environmental Protection Agency, 2005**. Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties**: January 2005.

Ivahnenko, T. and Zogorski, J.S., 2006. **Sources and Occurrence of Chloroform and Other Trihalomethanes in Drinking-Water Supply Wells in the United States, 1986-2001:** U.S. Geologic Survey Scientific Investigations Report 2006-5015, 13 p.

TABLES

TABLE 1. RESULTS OF SOIL SAMPLING
Hohokam Elementary School, July 31, 2008 and October 10, 2008

		1,1-Dichloroethene			Trichloroethene			Tetrachloroethene			Chloroform			1,1,1-Trichloroethane		
USEPA Regional Risk-Based Screening Levels (residential soil)		**250 mg/kg**			**2.8 mg/kg**			**0.57 mg/kg**			**0.30 mg/kg**			**9,000 mg/kg**		
Soil Sampling Results		**TA**	**CH2M**	**ITSI**	**TA**	**CH2M**	**ITSI**	**TA**	**CH2M**	**ITSI**	**TA**	**CH2M**	**ITSI**	**TA**	**CH2M**	**ITSI**
Sample ID	**Location**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
HES-S-1	1	<0.25	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS
HES-S-2 / HES-B2 (CH2M)	2	<0.25	<0.0024	NS	<0.10	<0.0024	NS	<0.10	<0.0024	NS	<0.10	<0.0024	NS	<0.10	<0.0024	NS
HES-S-3	3	<0.25	NS	<0.0057	<0.10	NS	<0.0057	<0.10	NS	<0.0057	<0.10	NS	<0.0057	<0.10	NS	<0.0057
HES-S-4 / HES-B4 (CH2M)	4	<0.25	<0.0024	NS	<0.10	<0.0024	NS	<0.10	<0.0024	NS	<0.10	<0.0024	NS	<0.10	<0.0024	NS
HES-S-5	5	<0.25	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS
HES-S-6 / HES-B6 (CH2M)	6	<0.25	<0.0024 J,Q4	<0.0049	<0.10	<0.0024 J,Q4	<0.0049	<0.10	<0.0024 J,Q4	<0.0049	<0.10	<0.0024 J,Q4	<0.0049	<0.10	<0.0024 J,Q4	<0.0049
HES-S-7	7	<0.25	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS
HES-S-9	7 (duplicate)	<0.25	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS
HES-S-8	8	<0.25	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS	<0.10	NS	NS

Notes:
mg/kg = milligrams per kilogram
TA = TestAmerica
CH2M = Soil samples collected on July 31, 2008 by CH2M Hill (EPA oversight consultant - samples analyzed by EPA Region IX laboratory)
ITSI = Soil samples collected on October 10, 2008 by Innovative Technical Solutions, Inc. (EPA oversight consultant - samples analyzed by EPA Region IX laboratory)
NS = Not sampled
J = The reported result for this analyte should be considered an estimated value.
Q4 = The matrix spike and/or matrix spike duplicate associated with this sample did not meet recovery criteria for this analyte.

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TABLE 2. RESULTS OF JULY 31, 2008 SOIL-VAPOR SAMPLING
Hohokam Elementary School

		1,1-Dichloroethene		Trichloroethene		Tetrachloroethene		Chloroform		1,1,1-Trichloroethane	
Shallow Soil Gas CHHSLs (residential land use)		**31,400 µg/m^3 (1)**		**528 µg/m^3**		**180 µg/m^3**		**45.2 µg/m^3 (1)**		**991,000 µg/m^3**	
Soil-Vapor Sampling Results		**TA**	**CH2M**	**TA**	**CH2M**	**TA**	**CH2M**	**TA**	**CH2M**	**TA**	**CH2M**
Sample ID	**Location**	**µg/m^3**	**µg/m^3**	**µg/m^3**	**µg/m^3**	**µg/m^3**	**µg/m^3**	**µg/m^3**	**µg/m^3**	**µg/m^3**	**µg/m^3**
HES-SG-1	1	<4.0	NS	<5.5	NS	**9.0**	NS	<5.0	NS	<5.5	NS
HES-SG-2 / HES-SG-B2 (CH2M)	2	<2.0	<8.7	<2.8	<11.8	**7.6**	<14.9	**9.9**	**10.3 J**	<2.8	<12
HES-SG-3	3	<2.0	NS	**150**	NS	<3.4	NS	**4.9**	NS	<2.8	NS
HES-SG-4 / HES-SG-B2 (CH2M)	4	<10	<7	<14	<10	<17	<12	**36**	**37**	<14	<10
HES-SG-5	5	<2.0	NS	<2.8	NS	<3.4	NS	**3.9**	NS	**4.4**	NS
HES-SG-6 / HES-SG-B2 (CH2M)	6	<2.0	<8.0	**6.1**	<11	**120**	<14	**4.9**	**5.4 J**	<2.8	<11
HES-SG-7	7	<10	NS	<14	NS	<17	NS	<12	NS	<14	NS
HES-SG-9	7 (duplicate)	<2.1	NS	<2.8	NS	<3.4	NS	<2.5	NS	<2.8	NS
HES-SG-8	8	<2.0	NS	<2.8	NS	<3.4	NS	<2.5	NS	<2.8	NS

Notes:

µg/m^3 = micrograms per cubic meter

CHHSLs = California Human Health Screening Levels; residential land use generally considered adequate for sensitive uses (e.g. day-care centers, hospitals, etc.)

(1) = Derived using California Environmental Protection Agency (Cal/EPA) guidance *"Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties"*, January 2005 for existing structures on non-engineered fill. Derivation assumes that the measured soil-vapor concentration is present directly beneath the slab (at 7.5 inches below land surface), a conservative assumption.

CH2M = CH2M Hill (EPA oversight consultant - samples analyzed by EPA Region IX laboratory)

J = Estimated value

NS = Not sampled

TA = TestAmerica

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TABLE 3. RESULTS OF OCTOBER 10, 2008 SOIL-VAPOR SAMPLING
Hohokam Elementary School

		1,1-Dichloroethene			Trichloroethene			Tetrachloroethene			Chloroform			1,1,1-Trichloroethane			1,1-Difluoroethane (Leak Tracer)		
Shallow Soil Gas CHHSLs (residential land use)		**31,400 µg/m³ (1)**			**528 µg/m³**			**180 µg/m³**			**45.2 µg/m³ (1)**			**991,000 µg/m³**			Not Applicable		
Soil-Vapor Sampling Results		**ATL**	**TA**	**ITSI**	**ATL**	**TA**	**ITSI**	**ATL**	**TA**	**ITSI**	**ATL**	**TA**	**ITSI**	**ATL**	**TA**	**ITSI**	**ATL**	**TA**	**ITSI**
Sample ID	**Location**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**
HES-SG-1	1	<5.0	<1.98	<2.5	<6.8	<2.69	<2.5	<8.6	<3.39	<2.5	**26**	**38**	**28**	<6.9	<2.73	<2.5	<14	<27	NA
HES-SG-1 (Lab duplicate)	1	<5.0	NS	NS	<6.8	NS	NS	<8.6	NS	NS	**25**	NS	NS	<6.9	NS	NS	<14	NS	NA
HES-SG-2	2	<4.3	<1.98	<2.3	<5.8	<2.69	<2.3	<7.3	<3.39	<2.3	<3.2	<2.44	<2.3	<5.9	<2.73	<2.3	<12	<27	NA
HES-SG-2-DUP	2 (duplicate)	NS	NS	<2.4	NS	NS	<2.4	NS	NS	<2.4	NS	NS	<2.4	NS	NS	<2.4	NS	NS	NA
HES-SG-3	3	<5.5	<1.98	<2.2	<7.4	<2.69	<2.2	<9.4	<3.39	<2.2	<4.0	<2.44	<2.2	<7.5	<2.73	<2.2	<15	<27	NA
HES-SG-9	3 (duplicate)	<5.0	NS	NS	<6.8	NS	NS	<8.6	NS	NS	<3.7	NS	NS	<6.9	NS	NS	<14	NS	NA
HES-SG-4	4	<4.7	<1.98	<2.5	<6.4	<2.69	<2.5	<8.1	<3.39	<2.5	**6.0**	**6.8**	**7.2**	<6.5	<2.73	<2.5	<13	<27	NA
HES-SG-5	5	<4.8	<2.02	<2.5	<6.5	<2.74	<2.5	<8.2	<3.46	<2.5	**19**	**31**	**22**	<6.6	<2.78	<2.5	<13	<27	NA
HES-SG-6	6	<4.5	<3.96	<2.4	<6.2	<5.37	<2.4	<7.8	<6.78	<2.4	**16**	**19**	**17**	<6.2	<5.46	<2.4	<12	<54	NA
HES-SG-10	6 (duplicate)	NS	<3.96	NS	NS	<5.37	NS	NS	<6.78	NS	NS	**19**	NS	NS	<5.46	NS	NS	<54	NA
HES-SG-7	7	<5.7	<1.98	<2.3	<7.8	**3.6**	<2.3	<9.8	<3.39	<2.3	**11**	**9.3**	**13**	<7.9	<2.73	<2.3	<16	<27	NA
HES-SG-8	8	<4.9	<1.98	<2.5	<6.6	<2.69	<2.5	<8.4	**5.6**	<2.5	**6.5**	**7.3**	**7.1**	<6.7	<2.73	<2.5	<13	<27	NA

Notes:

µg/m³ = micrograms per cubic meter

CHHSLs = California Human Health Screening Levels; residential land use generally considered adequate for sensitive uses (e.g. day-care centers, hospitals, etc.)

(1) = Derived using California Environmental Protection Agency (Cal/EPA) guidance *"Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties"*, January 2005 for existing structures on non-engineered fill. Derivation assumes that the measured soil-vapor concentration is present directly beneath the slab (at 7.5 inches below land surface), a conservative assumption.

ATL = Air Toxics Ltd

ITSI = Innovative Technical Solutions, Inc. (EPA oversight consultant - samples analyzed by Columbia Analytical Services, Inc., Phoenix, Arizona)

NA = Not analyzed

NS = Not sampled

TA = TestAmerica

ERROL L. MONTGOMERY & ASSOCIATES, INC.

ILLUSTRATIONS

EXPLANATION

Hohokam Elementary School Boundary

0 1/4
MILES

N

Hohokam Elementary School
Scottsdale, Arizona

SITE LOCATION MAP

ERROL L. MONTGOMERY & ASSOCIATES, INC.
WATER RESOURCE CONSULTANTS
SCOTTSDALE, ARIZONA

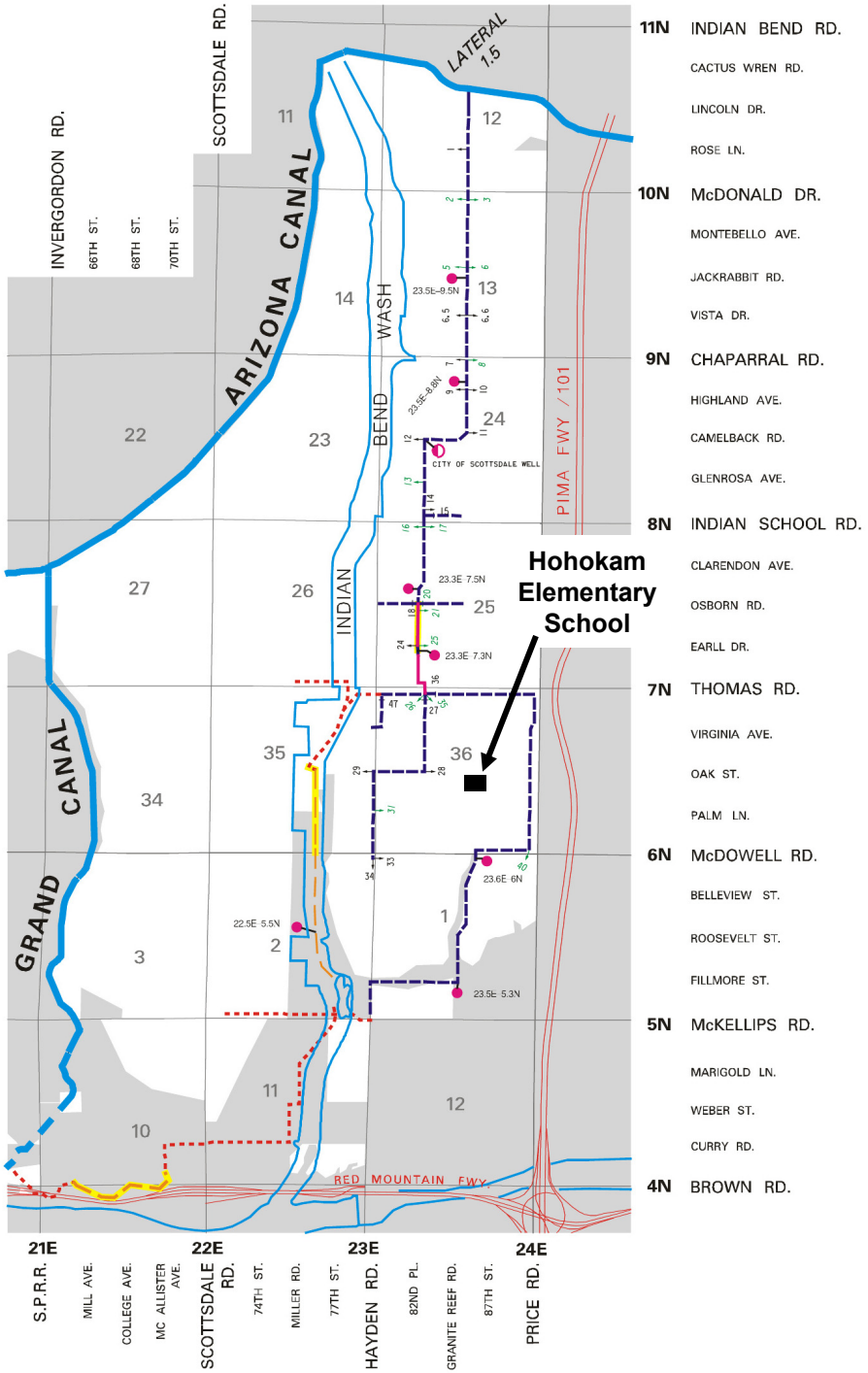
2009

FIGURE 1

Notes:
Aerial photo date 1/8/2007
Image from Google Earth Online

Figure 2

Water Distribution System for Arizona Canal Lateral 1.5



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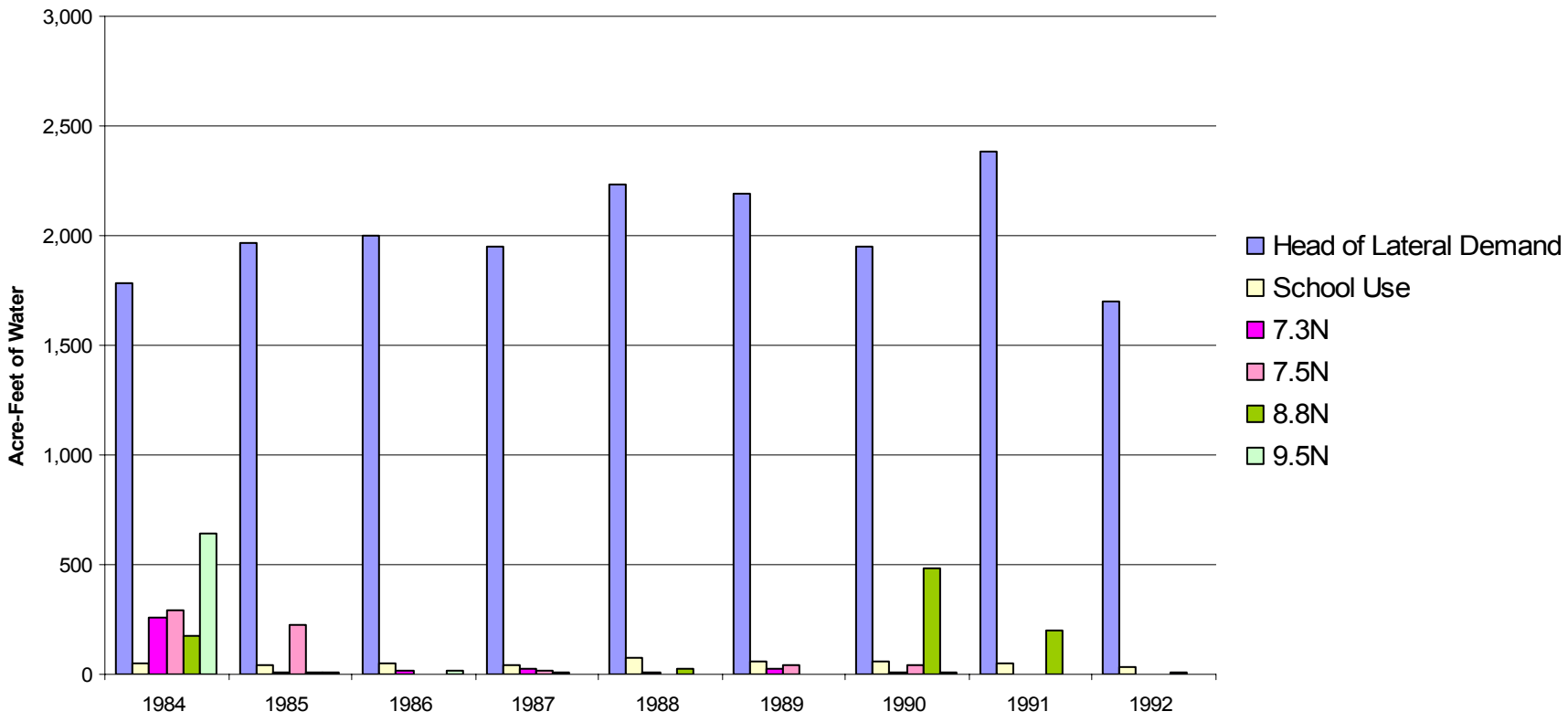
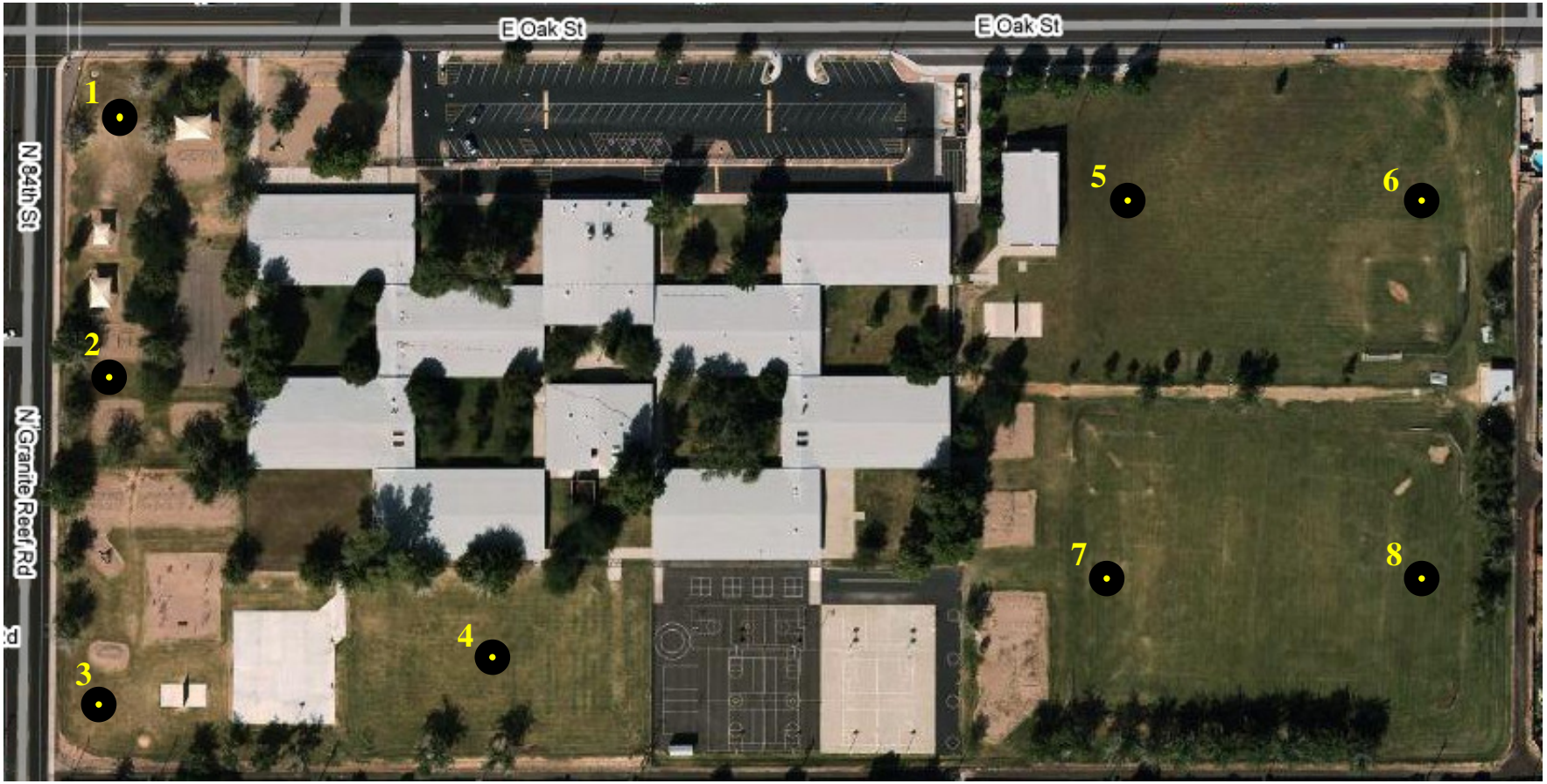
SRP makes no representation as to the accuracy of this mapping product nor as to its fitness for a particular purpose

FIGURE 3. WATER DEMAND AND SOURCES OF SUPPLY TO ARIZONA CANAL LATERAL 1.5





Notes:
Aerial photo date 1/8/2007
Image from Google Earth Online

N

Hohokam Elementary School
Scottsdale, Arizona

SOIL AND SOIL-VAPOR SAMPLE LOCATIONS

ERROL L. MONTGOMERY & ASSOCIATES, INC.
WATER RESOURCE CONSULTANTS
SCOTTSDALE, ARIZONA

2009

FIGURE 4

APPENDICES

APPENDIX A

ANALYTICAL LABORATORY REPORT FOR SOIL SAMPLES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Errol L. Montgomery & Assoc.
5010 East Shea Blvd. Suite D-110
Scottsdale, AZ 85254
Attention: Dennis Shirley

Project: 366.20/HES

Sampled: 07/31/08
Received: 07/31/08
Issued: 08/19/08 06:54

NELAP #01109CA Arizona DHS#AZ0728

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

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PRG1820-01	HES-S-3	Soil
PRG1820-02	HES-S-2	Soil
PRG1820-03	HES-S-1	Soil
PRG1820-04	HES-S-4	Soil
PRG1820-05	HES-S-7	Soil
PRG1820-06	HES-S-8	Soil
PRG1820-07	HES-S-6	Soil
PRG1820-08	HES-S-5	Soil
PRG1820-09	HES-S-9	Soil

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Attention: Dennis Shirley	Project ID: 366.20/HES Report Number: PRG1820	Sampled: 07/31/08 Received: 07/31/08

SAMPLE RECEIPT:	Samples were received intact, at 11°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. N1 EPA8260B:No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.

Reviewed By:

Carlene McCutcheon

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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TestAmerica
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Errol L. Montgomery & Assoc.
5010 East Shea Blvd. Suite D-110
Scottsdale, AZ 85254
Attention: Dennis Shirley

Project ID: 366.20/HES

Report Number: PRG1820

Sampled: 07/31/08
Received: 07/31/08

VOLATILE ORGANICS BY GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PRG1820-01 (HES-S-3 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.99	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*92 %*				
Surrogate: Toluene-d8 (65-125%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*102 %*				
Sample ID: PRG1820-02 (HES-S-2 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.994	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*90 %*				
Surrogate: Toluene-d8 (65-125%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*93 %*				
Sample ID: PRG1820-03 (HES-S-1 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.99	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.99	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*89 %*				
Surrogate: Toluene-d8 (65-125%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*94 %*				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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Errol L. Montgomery & Assoc.
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Scottsdale, AZ 85254
Attention: Dennis Shirley

Project ID: 366.20/HES
Report Number: PRG1820

Sampled: 07/31/08
Received: 07/31/08

VOLATILE ORGANICS BY GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PRG1820-04 (HES-S-4 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.996	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*88 %*				
Surrogate: Toluene-d8 (65-125%)				*93 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*93 %*				
Sample ID: PRG1820-05 (HES-S-7 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.994	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*94 %*				
Surrogate: Toluene-d8 (65-125%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*90 %*				
Sample ID: PRG1820-06 (HES-S-8 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.994	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*85 %*				
Surrogate: Toluene-d8 (65-125%)				*93 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*88 %*				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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Attention: Dennis Shirley

Project ID: 366.20/HES

Report Number: PRG1820

Sampled: 07/31/08
Received: 07/31/08

VOLATILE ORGANICS BY GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PRG1820-07 (HES-S-6 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.996	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.996	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*94 %*				
Surrogate: Toluene-d8 (65-125%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*93 %*				
Sample ID: PRG1820-08 (HES-S-5 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.992	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.992	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.992	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.992	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.992	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*89 %*				
Surrogate: Toluene-d8 (65-125%)				*95 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*92 %*				
Sample ID: PRG1820-09 (HES-S-9 - Soil)								
Reporting Units: ug/kg								
Chloroform	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1-Dichloroethene	EPA 8260B	P8G3129	250	ND	0.994	7/31/2008	8/1/2008	
Tetrachloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
1,1,1-Trichloroethane	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Trichloroethene	EPA 8260B	P8G3129	100	ND	0.994	7/31/2008	8/1/2008	
Surrogate: Dibromofluoromethane (60-130%)				*86 %*				
Surrogate: Toluene-d8 (65-125%)				*92 %*				
Surrogate: 4-Bromofluorobenzene (65-125%)				*88 %*				

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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Scottsdale, AZ 85254
Attention: Dennis Shirley

Project ID: 366.20/HES
Report Number: PRG1820

Sampled: 07/31/08
Received: 07/31/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: HES-S-3 (PRG1820-01) - Soil					
EPA 8260B	2	07/31/2008 07:25	07/31/2008 16:28	07/31/2008 17:45	08/01/2008 16:20
Sample ID: HES-S-2 (PRG1820-02) - Soil					
EPA 8260B	2	07/31/2008 08:27	07/31/2008 16:28	07/31/2008 17:45	08/01/2008 16:52
Sample ID: HES-S-1 (PRG1820-03) - Soil					
EPA 8260B	2	07/31/2008 09:15	07/31/2008 16:28	07/31/2008 17:45	08/01/2008 17:23
Sample ID: HES-S-4 (PRG1820-04) - Soil					
EPA 8260B	2	07/31/2008 09:54	07/31/2008 16:28	07/31/2008 17:45	08/01/2008 17:54
Sample ID: HES-S-7 (PRG1820-05) - Soil					
EPA 8260B	2	07/31/2008 10:45	07/31/2008 16:28	07/31/2008 17:45	08/01/2008 18:25
Sample ID: HES-S-8 (PRG1820-06) - Soil					
EPA 8260B	2	07/31/2008 11:22	07/31/2008 16:28	07/31/2008 18:00	08/01/2008 18:57
Sample ID: HES-S-6 (PRG1820-07) - Soil					
EPA 8260B	2	07/31/2008 11:50	07/31/2008 16:28	07/31/2008 18:00	08/01/2008 19:28
Sample ID: HES-S-5 (PRG1820-08) - Soil					
EPA 8260B	2	07/31/2008 12:23	07/31/2008 16:28	07/31/2008 18:00	08/01/2008 19:59
Sample ID: HES-S-9 (PRG1820-09) - Soil					
EPA 8260B	2	07/31/2008 13:50	07/31/2008 16:28	07/31/2008 18:00	08/01/2008 20:30

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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Scottsdale, AZ 85254
Attention: Dennis Shirley

Project ID: 366.20/HES
Report Number: PRG1820

Sampled: 07/31/08
Received: 07/31/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P8G3129 Extracted: 07/31/08										
Blank Analyzed: 08/01/2008 (P8G3129-BLK1)										
Chloroform	ND	100	ug/kg							
1,1-Dichloroethene	ND	250	ug/kg							
Tetrachloroethene	ND	100	ug/kg							
1,1,1-Trichloroethane	ND	100	ug/kg							
Trichloroethene	ND	100	ug/kg							
Surrogate: Dibromofluoromethane	*1320*		*ug/kg*	*1250*		*106*	*60-130*			
Surrogate: Toluene-d8	*1300*		*ug/kg*	*1250*		*104*	*65-125*			
Surrogate: 4-Bromofluorobenzene	*1300*		*ug/kg*	*1250*		*104*	*65-125*			
LCS Analyzed: 08/05/2008 (P8G3129-BS1)										**N1**
Chloroform	1190	100	ug/kg	1250		95	75-120			
1,1-Dichloroethene	1160	250	ug/kg	1250		93	50-135			
Tetrachloroethene	1010	100	ug/kg	1250		81	70-130			
1,1,1-Trichloroethane	1160	100	ug/kg	1250		93	75-120			
Trichloroethene	1100	100	ug/kg	1250		88	80-120			
Surrogate: Dibromofluoromethane	*1270*		*ug/kg*	*1250*		*101*	*80-125*			
Surrogate: Toluene-d8	*1190*		*ug/kg*	*1250*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*1140*		*ug/kg*	*1250*		*91*	*75-125*			
LCS Dup Analyzed: 08/05/2008 (P8G3129-BSD1)										
Chloroform	1250	100	ug/kg	1250		100	75-120	5	20	
1,1-Dichloroethene	1170	250	ug/kg	1250		93	50-135	1	20	
Tetrachloroethene	1060	100	ug/kg	1250		84	70-130	4	15	
1,1,1-Trichloroethane	1220	100	ug/kg	1250		98	75-120	5	15	
Trichloroethene	1140	100	ug/kg	1250		91	80-120	4	15	
Surrogate: Dibromofluoromethane	*1300*		*ug/kg*	*1250*		*104*	*80-125*			
Surrogate: Toluene-d8	*1180*		*ug/kg*	*1250*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*1150*		*ug/kg*	*1250*		*92*	*75-125*			

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Errol L. Montgomery & Assoc.
5010 East Shea Blvd. Suite D-110
Scottsdale, AZ 85254
Attention: Dennis Shirley

Project ID: 366.20/HES
Report Number: PRG1820

Sampled: 07/31/08
Received: 07/31/08

DATA QUALIFIERS AND DEFINITIONS

N1	See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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Attention: Dennis Shirley

Project ID: 366.20/HES
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Sampled: 07/31/08
Received: 07/31/08

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Soil	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Carlene McCutcheon
Project Manager

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APPENDIX B

ANALYTICAL LABORATORY REPORTS FOR SOIL-VAPOR SAMPLES

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Friday, August 15, 2008

Dennis Shirley
Errol L. Montgomery & Associates
5010 East Shea Blvd., Suite D-110
Scottsdale, AZ 85254

TEL: (480) 948-7747
FAX: (480) 948-8737

RE: HES

Order No.: 08070030

Dear Dennis Shirley:

TestAmerica Laboratories, Inc. received 9 sample(s) on 7/31/2008 for the analyses presented in the following report.

This report includes the following information:
- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Carlene McCutcheon

Carlene McCutcheon
Project Manager

TestAmerica Laboratories, Inc. **Date:** *15-Aug-08*

CLIENT: Errol L. Montgomery & Associates
Project: HES
Lab Order: 08070030

CASE NARRATIVE

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix location, 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

TestAmerica is licensed through the State of Arizona (License No. AZ0728), and holds NELAP accreditation (OR100001) through the State of Oregon for the analytical techniques noted on the scope of accreditation.

TestAmerica is also accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation.

Samples were analyzed using methods outlined in references such as:
-Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998.
-40 CFR, Part 136, July 2006. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.
-Methods for the Chemical Analysis of Water and Wastes, EPA/600/4-79-020, Revised March 1983.
-Methods for the Determination of Organic Compounds in Drinking Water: Supplement III, August 1995, EPA/600/R-95/131.
-Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA, 3rd Edition 1986, and Updates.
-Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA, Second Edition, 1999.
-NIOSH Manual of Analytical Methods, Fourth Edition, 1994. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.

Analytical Comments:
All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Data Qualifiers:
Listed below are the data qualifiers used in your analytical report to explain any analytical or quality control issues. You will find them noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

D1 Sample required dilution due to matrix.

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-3
Lab Order:	08070030	**Tag Number:**	316
Project:	HES	**Collection Date:**	7/31/2008 8:07:00 AM
Lab ID:	08070030-01A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
1,1-Dichloroethene	< 0.50	0.50	< 0.0020	0.0020		1	8/8/2008
Chloroform	0.99	0.50	0.0049	0.0025		1	8/8/2008
Tetrachloroethene	< 0.50	0.50	< 0.0034	0.0034		1	8/8/2008
Trichloroethene	28	0.50	0.15	0.0028		1	8/8/2008
Surr: 4-Bromofluorobenzene	102 %REC	70-130	-	-		1	8/8/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-2
Lab Order:	08070030	**Tag Number:**	1302
Project:	HES	**Collection Date:**	7/31/2008 8:59:00 AM
Lab ID:	08070030-02A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
1,1-Dichloroethene	< 0.50	0.50	< 0.0020	0.0020		1	8/8/2008
Chloroform	2.0	0.50	0.0099	0.0025		1	8/8/2008
Tetrachloroethene	1.1	0.50	0.0076	0.0034		1	8/8/2008
Trichloroethene	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
Surr: 4-Bromofluorobenzene	101 %REC	70-130	-	-		1	8/8/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-1
Lab Order:	08070030	**Tag Number:**	24195
Project:	HES	**Collection Date:**	7/31/2008 9:33:00 AM
Lab ID:	08070030-03A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 1.0	1.0	< 0.0055	0.0055	D1	2	8/8/2008
1,1-Dichloroethene	< 1.0	1.0	< 0.0040	0.0040	D1	2	8/8/2008
Chloroform	< 1.0	1.0	< 0.0050	0.0050	D1	2	8/8/2008
Tetrachloroethene	1.3	1.0	0.0090	0.0069	D1	2	8/8/2008
Trichloroethene	< 1.0	1.0	< 0.0055	0.0055	D1	2	8/8/2008
Surr: 4-Bromofluorobenzene	101 %REC	70-130	-	-		2	8/8/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-4
Lab Order:	08070030	**Tag Number:**	230
Project:	HES	**Collection Date:**	7/31/2008 10:20:00 AM
Lab ID:	08070030-04A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 2.5	2.5	< 0.014	0.014	D1	5	8/12/2008
1,1-Dichloroethene	< 2.5	2.5	< 0.010	0.010	D1	5	8/12/2008
Chloroform	7.3	2.5	0.036	0.012	D1	5	8/12/2008
Tetrachloroethene	< 2.5	2.5	< 0.017	0.017	D1	5	8/12/2008
Trichloroethene	< 2.5	2.5	< 0.014	0.014	D1	5	8/12/2008
Surr: 4-Bromofluorobenzene	105 %REC	70-130	-	-		5	8/12/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-7
Lab Order:	08070030	**Tag Number:**	1425
Project:	HES	**Collection Date:**	7/31/2008 11:13:00 AM
Lab ID:	08070030-05A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 2.5	2.5	< 0.014	0.014	D1	5	8/12/2008
1,1-Dichloroethene	< 2.5	2.5	< 0.010	0.010	D1	5	8/12/2008
Chloroform	< 2.5	2.5	< 0.012	0.012	D1	5	8/12/2008
Tetrachloroethene	< 2.5	2.5	< 0.017	0.017	D1	5	8/12/2008
Trichloroethene	< 2.5	2.5	< 0.014	0.014	D1	5	8/12/2008
Surr: 4-Bromofluorobenzene	102 %REC	70-130	-	-		5	8/12/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-8
Lab Order:	08070030	**Tag Number:**	209
Project:	HES	**Collection Date:**	7/31/2008 11:41:00 AM
Lab ID:	08070030-06A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
1,1-Dichloroethene	< 0.50	0.50	< 0.0020	0.0020		1	8/8/2008
Chloroform	< 0.50	0.50	< 0.0025	0.0025		1	8/8/2008
Tetrachloroethene	< 0.50	0.50	< 0.0034	0.0034		1	8/8/2008
Trichloroethene	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
Surr: 4-Bromofluorobenzene	94.9 %REC	70-130	-	-		1	8/8/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-6
Lab Order:	08070030	**Tag Number:**	671
Project:	HES	**Collection Date:**	7/31/2008 12:09:00 PM
Lab ID:	08070030-07A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
1,1-Dichloroethene	< 0.50	0.50	< 0.0020	0.0020		1	8/8/2008
Chloroform	0.99	0.50	0.0049	0.0025		1	8/8/2008
Tetrachloroethene	18	0.50	0.12	0.0034		1	8/8/2008
Trichloroethene	1.1	0.50	0.0061	0.0028		1	8/8/2008
Surr: 4-Bromofluorobenzene	88.8 %REC	70-130	-	-		1	8/8/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-5
Lab Order:	08070030	**Tag Number:**	281
Project:	HES	**Collection Date:**	7/31/2008 12:45:00 PM
Lab ID:	08070030-08A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	0.79	0.50	0.0044	0.0028		1	8/8/2008
1,1-Dichloroethene	< 0.50	0.50	< 0.0020	0.0020		1	8/8/2008
Chloroform	0.79	0.50	0.0039	0.0025		1	8/8/2008
Tetrachloroethene	< 0.50	0.50	< 0.0034	0.0034		1	8/8/2008
Trichloroethene	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
Surr: 4-Bromofluorobenzene	100 %REC	70-130	-	-		1	8/8/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

TestAmerica Laboratories, Inc.

Date: *15-Aug-08*

CLIENT:	Errol L. Montgomery & Associates	**Client Sample ID:**	HES-SG-9
Lab Order:	08070030	**Tag Number:**	1290
Project:	HES	**Collection Date:**	7/31/2008 1:57:00 PM
Lab ID:	08070030-09A	**Matrix:**	AIR

	ppbv		µg/L				
Analyses	**Result**	**Limit**	**Result**	**Limit**	**Qual**	**DF**	**Date Analyzed**
VOLATILE ORGANICS IN AIR		**TO15**					Analyst: **J.J.**
1,1,1-Trichloroethane	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
1,1-Dichloroethane	< 0.50	0.50	< 0.0021	0.0021		1	8/8/2008
Chloroform	< 0.50	0.50	< 0.0025	0.0025		1	8/8/2008
Tetrachloroethene	< 0.50	0.50	< 0.0034	0.0034		1	8/8/2008
Trichloroethene	< 0.50	0.50	< 0.0028	0.0028		1	8/8/2008
Surr: 4-Bromofluorobenzene	96.3 %REC	70-130	-	-		1	8/8/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: *15-Aug-08*

CLIENT: Errol L. Montgomery & Associates
Work Order: 08070030
Project: HES

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

Sample ID: **MB-R94224** SampType: **MBLK** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94224**
Client ID: Batch ID: **R94224** TestNo: **TO15** Analysis Date: **8/8/2008** SeqNo: **1114712**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	<0.50	0.50									
1,1-Dichloroethane	<0.50	0.50									
1,1-Dichloroethene	<0.50	0.50									
Chloroform	<0.50	0.50									
Tetrachloroethene	<0.50	0.50									
Trichloroethene	<0.50	0.50									
Surr: 4-Bromofluorobenzene	10.90	0.50	10	0	109	70	130				

Sample ID: **MB-R94225** SampType: **MBLK** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94225**
Client ID: Batch ID: **R94225** TestNo: **TO15** Analysis Date: **8/12/2008** SeqNo: **1114732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	<0.50	0.50									
1,1-Dichloroethene	<0.50	0.50									
Chloroform	<0.50	0.50									
Tetrachloroethene	<0.50	0.50									
Trichloroethene	<0.50	0.50									
Surr: 4-Bromofluorobenzene	10.32	0.50	10	0	103	70	130				

Sample ID: **LCS-R94224** SampType: **LCS** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94224**
Client ID: Batch ID: **R94224** TestNo: **TO15** Analysis Date: **8/8/2008** SeqNo: **1114713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	9.540	0.50	10	0	95.4	65	135				
1,1-Dichloroethane	9.160	0.50	10	0	91.6	65	135				

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: *15-Aug-08*

CLIENT: Errol L. Montgomery & Associates
Work Order: 08070030
Project: HES

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

Sample ID: **LCS-R94224** SampType: **LCS** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94224**
Client ID: Batch ID: **R94224** TestNo: **TO15** Analysis Date: **8/8/2008** SeqNo: **1114713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	8.660	0.50	10	0	86.6	65	135				
Chloroform	9.160	0.50	10	0	91.6	65	135				
Tetrachloroethene	9.050	0.50	10	0	90.5	65	135				
Trichloroethene	8.510	0.50	10	0	85.1	65	135				
Surr: 4-Bromofluorobenzene	10.27	0.50	10	0	103	70	130				

Sample ID: **LCS-R94225** SampType: **LCS** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94225**
Client ID: Batch ID: **R94225** TestNo: **TO15** Analysis Date: **8/12/2008** SeqNo: **1114733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	9.140	0.50	10	0	91.4	65	135				
1,1-Dichloroethene	10.42	0.50	10	0	104	65	135				
Chloroform	8.740	0.50	10	0	87.4	65	135				
Tetrachloroethene	9.890	0.50	10	0	98.9	65	135				
Trichloroethene	9.460	0.50	10	0	94.6	65	135				
Surr: 4-Bromofluorobenzene	9.940	0.50	10	0	99.4	70	130				

Sample ID: **LCSD-R94224** SampType: **LCSD** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94224**
Client ID: Batch ID: **R94224** TestNo: **TO15** Analysis Date: **8/8/2008** SeqNo: **1114714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	9.000	0.50	10	0	90.0	65	135	9.540	5.83	25	
1,1-Dichloroethane	8.700	0.50	10	0	87.0	65	135	9.160	5.15	25	
1,1-Dichloroethene	8.340	0.50	10	0	83.4	65	135	8.660	3.76	25	
Chloroform	8.680	0.50	10	0	86.8	65	135	9.160	5.38	25	

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: *15-Aug-08*

CLIENT: Errol L. Montgomery & Associates
Work Order: 08070030
Project: HES

ANALYTICAL QC SUMMARY REPORT

TestCode: TO15

Sample ID: **LCSD-R94224** SampType: **LCSD** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94224**
Client ID: Batch ID: **R94224** TestNo: **TO15** Analysis Date: **8/8/2008** SeqNo: **1114714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	9.080	0.50	10	0	90.8	65	135	9.050	0.331	25	
Trichloroethene	8.970	0.50	10	0	89.7	65	135	8.510	5.26	25	
Surr: 4-Bromofluorobenzene	11.09	0.50	10	0	111	70	130	10.27	0	0	

Sample ID: **LCSD-R94225** SampType: **LCSD** TestCode: **TO15** Units: **ppbv** Prep Date: RunNo: **94225**
Client ID: Batch ID: **R94225** TestNo: **TO15** Analysis Date: **8/12/2008** SeqNo: **1114734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	9.090	0.50	10	0	90.9	65	135	9.140	0.549	25	
1,1-Dichloroethene	10.36	0.50	10	0	104	65	135	10.42	0.577	25	
Chloroform	8.670	0.50	10	0	86.7	65	135	8.740	0.804	25	
Tetrachloroethene	9.610	0.50	10	0	96.1	65	135	9.890	2.87	25	
Trichloroethene	9.220	0.50	10	0	92.2	65	135	9.460	2.57	25	
Surr: 4-Bromofluorobenzene	10.00	0.50	10	0	100	70	130	9.940	0	0	

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

08-07-0030

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THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

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Client Contact Information

Company: EL Montgomery & Assoc. Inc
Address: 5010 E. Shea Blvd.
City/State/Zip: Scottsdale AZ 85254
Phone: 480-948-7747
FAX:
Project Name: HES
Site: HES
PO # 3de.2

Project Manager: Dennis Shirley
Phone: 480-948-7747
Email: DShirley@elmontgomery.com
Site Contact: Jack Adams
LAB Contact: Carlene McIntyre

Analysis Turnaround Time
Standard (Specify)_____
Rush (Specify)_____

Samples Collected By: Jack Adams

Page 1 of 1 COCs

	Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1	HES-SG-3	7/31/08	08:05	0807	0.4, 1.0, 6.0	200ml/L	316	X											
2	HES-SG-2		08:57	08:59	0.4, 1.0, 6.0		1302												
3	HES-SG-1		09:31	09:33	0.4, 1.0, 6.0		24195												
4	HES-SG-4		10:18	10:20	0.4, 1.0, 6.0		230												
5	HES-SG-7		11:11	11:13	0.4, 1.0, 6.0		1425												
6	HES-SG-8		11:39	11:41	0.4, 1.0, 6.0		209												
7	HES-SG-6		12:06	12:08	0.4, 1.0, 6.0		671												
8	HES-SG-5		12:43	12:45	0.4, 1.0, 6.0		281												
9	HES-SG-9		13:55	13:57	0.4, 1.0, 6.0		1290	X											
					0.4, 1.0, 6.0														
					0.4, 1.0, 6.0														
					0.4, 1.0, 6.0														

Special Instructions/QC Requirements & Comments:
See Carlene for the 5- COCs

Samples Shipped by: Jack Adams	Date/Time: 31 July 08 16:06	Samples Received by: Carlene McIntyre 7/31/08 16:09
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

TAL-0042 (02/08)

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November 11, 2008

LABORATORY REPORT

Client:
Errol L. Montgomery & Assoc.
5010 East Shea Blvd. Suite D-110
Scottsdale, AZ 85254
Attn: Andrew MacHugh

Work Order: PRJ0685
Project Name: HES
Project Number: HES Soil Vapor
Date Received: 10/10/08

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

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

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

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

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

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Carlene McCutcheon

Carlene McCutcheon
Project Manager

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Errol L. Montgomery & Assoc.
5010 East Shea Blvd. Suite D-110
Scottsdale, AZ 85254
Andrew MacHugh

Work Order: PRJ0685
Project: HES
Project Number: HES Soil Vapor

Received: 10/10/08
Reported: 11/11/08 06:07

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
HES-SG-3	PRJ0685-01	10/10/08	S/N 1642 1L Canister
HES-SG-2	PRJ0685-02	10/10/08	S/N 1611 1L Canister
HES-SG-1	PRJ0685-03	10/10/08	S/N 0007 1L Canister
HES-SG-4	PRJ0685-04	10/10/08	S/N 1628 1L Canister
HES-SG-7	PRJ0685-05	10/10/08	S/N 1301 1L Canister
HES-SG-8	PRJ0685-06	10/10/08	S/N 1241 1L Canister
HES-SG-6	PRJ0685-07	10/10/08	S/N 1434 1L Canister
HES-SG-10	PRJ0685-08	10/10/08	S/N 1649 1L Canister
HES-SG-5	PRJ0685-09	10/10/08	S/N 0259 1L Canister

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Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Andrew MacHugh	Work Order: PRJ0685 Project: HES Project Number: HES Soil Vapor	Received: 10/10/08 Reported: 11/11/08 06:07	

ANALYTICAL REPORT

	ppbv Result	ppbv PQL	ug/m3 Result	ug/m3 PQL	Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS									
Sample ID: PRJ0685-01 (HES-SG-3)									**Sampled: 10/10/08 09:00**
Difluoroethane	<10	10			T4	1.0	10/21/2008	JJ	EPA TO15
Sample ID: PRJ0685-02 (HES-SG-2)									**Sampled: 10/10/08 09:44**
Difluoroethane	<10	10			T4	1.0	10/21/2008	JJ	EPA TO15
Sample ID: PRJ0685-03 (HES-SG-1)									**Sampled: 10/10/08 10:21**
Difluoroethane	<10	10			T4	1.0	10/21/2008	JJ	EPA TO15
Sample ID: PRJ0685-04 (HES-SG-4)									**Sampled: 10/10/08 10:59**
Difluoroethane	<10	10			T4	1.0	10/21/2008	JJ	EPA TO15
Sample ID: PRJ0685-05 (HES-SG-7)									**Sampled: 10/10/08 12:56**
Difluoroethane	<10	10			T4	1.0	10/24/2008	JJ	EPA TO15
Sample ID: PRJ0685-06 (HES-SG-8)									**Sampled: 10/10/08 13:28**
Difluoroethane	<10	10			T4	1.0	10/21/2008	JJ	EPA TO15
Sample ID: PRJ0685-07 (HES-SG-6)									**Sampled: 10/10/08 14:03**
Difluoroethane	<20	20			T4	2.0	10/30/2008	JJ	EPA TO15
Sample ID: PRJ0685-08 (HES-SG-10)									**Sampled: 10/10/08 14:18**
Difluoroethane	<20	20			T4	2.0	10/22/2008	JJ	EPA TO15
Sample ID: PRJ0685-09 (HES-SG-5)									**Sampled: 10/10/08 14:29**
Difluoroethane	<10	10			T4	1.0	10/21/2008	JJ	EPA TO15
Volatile Organic Compounds by EPA TO-15									
Sample ID: PRJ0685-01 (HES-SG-3)									**Sampled: 10/10/08 09:00**
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	10/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	10/21/2008	JJ	EPA TO15
Chloroform	<0.50	0.50	<2.44	2.44		1.0	10/21/2008	JJ	EPA TO15
Tetrachloroethene	<0.50	0.50	<3.39	3.39		1.0	10/21/2008	JJ	EPA TO15
Trichloroethene	<0.50	0.50	<2.69	2.69		1.0	10/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*93 %*		*Limit 70-130*						
Sample ID: PRJ0685-02 (HES-SG-2)									**Sampled: 10/10/08 09:44**
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	10/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	10/21/2008	JJ	EPA TO15
Chloroform	<0.50	0.50	<2.44	2.44		1.0	10/21/2008	JJ	EPA TO15
Tetrachloroethene	<0.50	0.50	<3.39	3.39		1.0	10/21/2008	JJ	EPA TO15
Trichloroethene	<0.50	0.50	<2.69	2.69		1.0	10/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*91 %*		*Limit 70-130*						
Sample ID: PRJ0685-03 (HES-SG-1)									**Sampled: 10/10/08 10:21**
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	10/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	10/21/2008	JJ	EPA TO15
Chloroform	**7.8**	**0.50**	**38**	**2.44**		**1.0**	**10/21/2008**	**JJ**	**EPA TO15**
Tetrachloroethene	<0.50	0.50	<3.39	3.39		1.0	10/21/2008	JJ	EPA TO15

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Scottsdale, AZ 85254
Andrew MacHugh

Work Order: PRJ0685
Project: HES
Project Number: HES Soil Vapor

Received: 10/10/08
Reported: 11/11/08 06:07

Volatile Organic Compounds by EPA TO-15

	ppbv Result	ppbv PQL	ug/m3 Result	ug/m3 PQL	Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
Sample ID: PRJ0685-03 (HES-SG-1) - cont.									**Sampled: 10/10/08 10:21**
Trichloroethene	<0.50	0.50	<2.69	2.69		1.0	10/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*85 %*		*Limit 70-130*						
Sample ID: PRJ0685-04 (HES-SG-4)									**Sampled: 10/10/08 10:59**
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	10/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	10/21/2008	JJ	EPA TO15
Chloroform	**1.4**	**0.50**	**6.8**	**2.44**		**1.0**	**10/21/2008**	**JJ**	**EPA TO15**
Tetrachloroethene	<0.50	0.50	<3.39	3.39		1.0	10/21/2008	JJ	EPA TO15
Trichloroethene	<0.50	0.50	<2.69	2.69		1.0	10/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*84 %*		*Limit 70-130*						
Sample ID: PRJ0685-05 (HES-SG-7)									**Sampled: 10/10/08 12:56**
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	10/24/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	10/24/2008	JJ	EPA TO15
Chloroform	**1.9**	**0.50**	**9.3**	**2.44**		**1.0**	**10/24/2008**	**JJ**	**EPA TO15**
Tetrachloroethene	<0.50	0.50	<3.39	3.39		1.0	10/24/2008	JJ	EPA TO15
Trichloroethene	**0.67**	**0.50**	**3.6**	**2.69**		**1.0**	**10/24/2008**	**JJ**	**EPA TO15**
Surrogate: 4-Bromofluorobenzene	*86 %*		*Limit 70-130*						
Sample ID: PRJ0685-06 (HES-SG-8)									**Sampled: 10/10/08 13:28**
1,1,1-Trichloroethane	<0.50	0.50	<2.73	2.73		1.0	10/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.50	0.50	<1.98	1.98		1.0	10/21/2008	JJ	EPA TO15
Chloroform	**1.5**	**0.50**	**7.3**	**2.44**		**1.0**	**10/21/2008**	**JJ**	**EPA TO15**
Tetrachloroethene	**0.82**	**0.50**	**5.6**	**3.39**		**1.0**	**10/21/2008**	**JJ**	**EPA TO15**
Trichloroethene	<0.50	0.50	<2.69	2.69		1.0	10/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*86 %*		*Limit 70-130*						
Sample ID: PRJ0685-07 (HES-SG-6)									**Sampled: 10/10/08 14:03**
1,1,1-Trichloroethane	<1.0	1.0	<5.46	5.46	D4	2.0	10/30/2008	JJ	EPA TO15
1,1-Dichloroethene	<1.0	1.0	<3.96	3.96	D4	2.0	10/30/2008	JJ	EPA TO15
Chloroform	**3.9**	**1.0**	**19**	**4.88**	**D4**	**2.0**	**10/30/2008**	**JJ**	**EPA TO15**
Tetrachloroethene	<1.0	1.0	<6.78	6.78	D4	2.0	10/30/2008	JJ	EPA TO15
Trichloroethene	<1.0	1.0	<5.37	5.37	D4	2.0	10/30/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*84 %*		*Limit 70-130*		*D4*				
Sample ID: PRJ0685-08 (HES-SG-10)									**Sampled: 10/10/08 14:18**
1,1,1-Trichloroethane	<1.0	1.0	<5.46	5.46		2.0	10/22/2008	JJ	EPA TO15
1,1-Dichloroethene	<1.0	1.0	<3.96	3.96		2.0	10/22/2008	JJ	EPA TO15
Chloroform	**3.8**	**1.0**	**19**	**4.88**		**2.0**	**10/22/2008**	**JJ**	**EPA TO15**
Tetrachloroethene	<1.0	1.0	<6.78	6.78		2.0	10/22/2008	JJ	EPA TO15
Trichloroethene	<1.0	1.0	<5.37	5.37		2.0	10/22/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*83 %*		*Limit 70-130*						

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Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Andrew MacHugh	Work Order: PRJ0685 Project: HES Project Number: HES Soil Vapor	Received: 10/10/08 Reported: 11/11/08 06:07	

	ppbv Result	ppbv PQL	ug/m3 Result	ug/m3 PQL	Data Qualifiers	Dilution	Date Analyzed	Analyst	Method
Volatile Organic Compounds by EPA TO-15									
Sample ID: PRJ0685-09 (HES-SG-5)								**Sampled: 10/10/08 14:29**	
1,1,1-Trichloroethane	<0.51	0.51	<2.78	2.78		1.0	10/21/2008	JJ	EPA TO15
1,1-Dichloroethene	<0.51	0.51	<2.02	2.02		1.0	10/21/2008	JJ	EPA TO15
Chloroform	**6.3**	**0.51**	**31**	**2.49**		**1.0**	**10/21/2008**	**JJ**	**EPA TO15**
Tetrachloroethene	<0.51	0.51	<3.46	3.46		1.0	10/21/2008	JJ	EPA TO15
Trichloroethene	<0.51	0.51	<2.74	2.74		1.0	10/21/2008	JJ	EPA TO15
Surrogate: 4-Bromofluorobenzene	*90 %*		*Limit 70-130*						

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS							
P8J2231-BLK1							
Difluoroethane	<10	10	T4	ppbv	P8J2231	P8J2231-BLK1	10-21-2008
P8J2422-BLK1							
Difluoroethane	<10	10	T4	ppbv	P8J2422	P8J2422-BLK1	10-23-2008
P8J3020-BLK1							
Difluoroethane	<10	10	T4	ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Volatile Organic Compounds by EPA TO-15							
P8J2231-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,1,2-Trichloroethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,1-Dichloroethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,1-Dichloroethene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,2-Dibromoethane (EDB)	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,2-Dichlorobenzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,2-Dichloroethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,2-Dichloropropane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,3-Butadiene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,3-Dichlorobenzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
1,4-Dichlorobenzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
2-Butanone (MEK)	<1.0	1.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
2-Hexanone	<1.0	1.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
2-Propanol	<2.0	2.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
4-Ethyltoluene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Acetone	<5.0	5.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Allyl Chloride	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Benzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Benzyl Chloride	<2.0	2.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Bromodichloromethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Bromoform	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Bromomethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008

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4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Andrew MacHugh	Work Order: PRJ0685 Project: HES Project Number: HES Soil Vapor	Received: 10/10/08 Reported: 11/11/08 06:07	

Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
P8J2231-BLK1							
Carbon disulfide	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Carbon tetrachloride	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Chlorobenzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Chloroethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Chloroform	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Chloromethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Cyclohexane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Dibromochloromethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Dichlorodifluoromethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Ethyl Acetate	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Ethylbenzene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Freon 113	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Heptane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Hexachlorobutadiene	<1.0	1.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Hexane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
m,p-Xylenes	<1.0	1.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Methylene Chloride	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
o-Xylene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Propene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Styrene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Tetrachloroethene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Tetrahydrofuran	<2.0	2.0		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Toluene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Trichloroethene	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Trichlorofluoromethane	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Vinyl Acetate	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Vinyl chloride	<0.50	0.50		ppbv	P8J2231	P8J2231-BLK1	10-21-2008
Surrogate: 4-Bromofluorobenzene	99%				P8J2231	P8J2231-BLK1	10-21-2008
P8J2422-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,1,2-Trichloroethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,1-Dichloroethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,1-Dichloroethene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008

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Blank - Cont.

Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
P8J2422-BLK1							
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,2-Dibromoethane (EDB)	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,2-Dichlorobenzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,2-Dichloroethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,2-Dichloropropane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,3-Butadiene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,3-Dichlorobenzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
1,4-Dichlorobenzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
2-Butanone (MEK)	<1.0	1.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
2-Hexanone	<1.0	1.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
2-Propanol	<2.0	2.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
4-Ethyltoluene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Acetone	<5.0	5.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Allyl Chloride	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Benzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Benzyl Chloride	<2.0	2.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Bromodichloromethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Bromoform	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Bromomethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Carbon disulfide	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Carbon tetrachloride	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Chlorobenzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Chloroethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Chloroform	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Chloromethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Cyclohexane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Dibromochloromethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Dichlorodifluoromethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Ethyl Acetate	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Ethylbenzene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Freon 113	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Heptane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Hexachlorobutadiene	<1.0	1.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
P8J2422-BLK1							
Hexane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
m,p-Xylenes	<1.0	1.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Methylene Chloride	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
o-Xylene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Propene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Styrene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Tetrachloroethene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Tetrahydrofuran	<2.0	2.0		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Toluene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Trichloroethene	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Trichlorofluoromethane	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Vinyl Acetate	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Vinyl chloride	<0.50	0.50		ppbv	P8J2422	P8J2422-BLK1	10-23-2008
Surrogate: 4-Bromofluorobenzene	101%				P8J2422	P8J2422-BLK1	10-23-2008
P8J3020-BLK1							
1,1,1-Trichloroethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,1,2,2-Tetrachloroethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,1,2-Trichloroethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,1-Dichloroethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,1-Dichloroethene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,2,4-Trichlorobenzene	<2.0	2.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,2,4-Trimethylbenzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,2-Dibromoethane (EDB)	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,2-Dichlorobenzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,2-Dichloroethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,2-Dichloropropane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,3,5-Trimethylbenzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,3-Butadiene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,3-Dichlorobenzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
1,4-Dichlorobenzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
2,2,4-Trimethylpentane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
2-Butanone (MEK)	<1.0	1.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
2-Hexanone	<1.0	1.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
2-Propanol	<2.0	2.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
4-Ethyltoluene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
4-Methyl-2-pentanone (MIBK)	<1.0	1.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Acetone	<5.0	5.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							
P8J3020-BLK1							
Allyl Chloride	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Benzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Benzyl Chloride	<2.0	2.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Bromodichloromethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Bromoethene(Vinyl Bromide)	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Bromoform	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Bromomethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Carbon disulfide	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Carbon tetrachloride	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Chlorobenzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Chloroethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Chloroform	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Chloromethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
cis-1,2-Dichloroethene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
cis-1,3-Dichloropropene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Cyclohexane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Dibromochloromethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Dichlorodifluoromethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Dichlorotetrafluoroethane(F-114)	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Ethyl Acetate	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Ethylbenzene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Freon 113	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Heptane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Hexachlorobutadiene	<1.0	1.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Hexane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
m,p-Xylenes	<1.0	1.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Methylene Chloride	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Methyl-tert-butyl Ether (MTBE)	<1.0	1.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
o-Xylene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Propene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Styrene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Tetrachloroethene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Tetrahydrofuran	<2.0	2.0		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Toluene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
trans-1,2-Dichloroethene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
trans-1,3-Dichloropropene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Trichloroethene	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Trichlorofluoromethane	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Vinyl Acetate	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Vinyl chloride	<0.50	0.50		ppbv	P8J3020	P8J3020-BLK1	10-29-2008
Surrogate: 4-Bromofluorobenzene	99%				P8J3020	P8J3020-BLK1	10-29-2008

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Analyte	Blank Value	RL	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Volatile Organic Compounds by EPA TO-15							

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Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8J2231-BS1								
1,1,1-Trichloroethane	10.6	0.50		ppbv	106%	65 - 135	P8J2231	10-21-2008
1,1,2,2-Tetrachloroethane	11.3	0.50		ppbv	113%	65 - 135	P8J2231	10-21-2008
1,1,2-Trichloroethane	10.8	0.50		ppbv	108%	65 - 135	P8J2231	10-21-2008
1,1-Dichloroethane	10.9	0.50		ppbv	109%	65 - 135	P8J2231	10-21-2008
1,1-Dichloroethene	9.78	0.50		ppbv	98%	65 - 135	P8J2231	10-21-2008
1,2,4-Trichlorobenzene	14.6	2.00	L3	ppbv	146%	65 - 135	P8J2231	10-21-2008
1,2,4-Trimethylbenzene	11.0	0.50		ppbv	110%	65 - 135	P8J2231	10-21-2008
1,2-Dibromoethane (EDB)	9.56	0.50		ppbv	96%	65 - 135	P8J2231	10-21-2008
1,2-Dichlorobenzene	10.8	0.50		ppbv	108%	65 - 135	P8J2231	10-21-2008
1,2-Dichloroethane	10.7	0.50		ppbv	107%	65 - 135	P8J2231	10-21-2008
1,2-Dichloropropane	11.0	0.50		ppbv	110%	65 - 135	P8J2231	10-21-2008
1,3,5-Trimethylbenzene	12.6	0.50		ppbv	126%	65 - 135	P8J2231	10-21-2008
1,3-Butadiene	11.9	0.50		ppbv	119%	65 - 135	P8J2231	10-21-2008
1,3-Dichlorobenzene	10.5	0.50		ppbv	105%	65 - 135	P8J2231	10-21-2008
1,4-Dichlorobenzene	11.1	0.50		ppbv	111%	65 - 135	P8J2231	10-21-2008
2,2,4-Trimethylpentane	10.7	0.50		ppbv	107%	65 - 135	P8J2231	10-21-2008
2-Butanone (MEK)	10.8	1.00		ppbv	108%	65 - 135	P8J2231	10-21-2008
2-Hexanone	8.61	1.00		ppbv	86%	65 - 135	P8J2231	10-21-2008
2-Propanol	11.7	2.00		ppbv	117%	65 - 135	P8J2231	10-21-2008
4-Ethyltoluene	11.1	0.50		ppbv	111%	65 - 135	P8J2231	10-21-2008
4-Methyl-2-pentanone (MIBK)	10.9	1.00		ppbv	109%	65 - 135	P8J2231	10-21-2008
Acetone	10.5	5.00		ppbv	105%	65 - 135	P8J2231	10-21-2008
Allyl Chloride	11.7	0.50		ppbv	117%	65 - 135	P8J2231	10-21-2008
Benzene	9.96	0.50		ppbv	100%	65 - 135	P8J2231	10-21-2008
Benzyl Chloride	12.6	2.00		ppbv	126%	65 - 135	P8J2231	10-21-2008
Bromodichloromethane	10.7	0.50		ppbv	107%	65 - 135	P8J2231	10-21-2008
Bromoethene(Vinyl Bromide)	10.1	0.50		ppbv	101%	65 - 135	P8J2231	10-21-2008
Bromoform	11.1	0.50		ppbv	111%	65 - 135	P8J2231	10-21-2008
Bromomethane	8.83	0.50		ppbv	88%	65 - 135	P8J2231	10-21-2008
Carbon disulfide	10.7	0.50		ppbv	107%	65 - 135	P8J2231	10-21-2008
Carbon tetrachloride	10.6	0.50		ppbv	106%	65 - 135	P8J2231	10-21-2008
Chlorobenzene	11.2	0.50		ppbv	112%	65 - 135	P8J2231	10-21-2008
Chloroethane	9.35	0.50		ppbv	94%	65 - 135	P8J2231	10-21-2008
Chloroform	10.9	0.50		ppbv	109%	65 - 135	P8J2231	10-21-2008

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8J2231-BS1								
Chloromethane	10.3	0.50		ppbv	103%	65 - 135	P8J2231	10-21-2008
cis-1,2-Dichloroethene	10.6	0.50		ppbv	106%	65 - 135	P8J2231	10-21-2008
cis-1,3-Dichloropropene	11.1	0.50		ppbv	111%	65 - 135	P8J2231	10-21-2008
Cyclohexane	11.9	0.50		ppbv	119%	65 - 135	P8J2231	10-21-2008
Dibromochloromethane	10.8	0.50		ppbv	108%	65 - 135	P8J2231	10-21-2008
Dichlorodifluoromethane	10.1	0.50		ppbv	101%	65 - 135	P8J2231	10-21-2008
Dichlorotetrafluoroethane(F-114)	10.3	0.50		ppbv	103%	65 - 135	P8J2231	10-21-2008
Ethyl Acetate	9.62	0.50		ppbv	96%	65 - 135	P8J2231	10-21-2008
Ethylbenzene	12.0	0.50		ppbv	120%	65 - 135	P8J2231	10-21-2008
Freon 113	11.0	0.50		ppbv	110%	65 - 135	P8J2231	10-21-2008
Heptane	10.6	0.50		ppbv	106%	65 - 135	P8J2231	10-21-2008
Hexachlorobutadiene	0.00	1.00	L4	ppbv	0%	65 - 135	P8J2231	10-21-2008
Hexane	11.8	0.50		ppbv	118%	65 - 135	P8J2231	10-21-2008
m,p-Xylenes	23.0	1.00		ppbv	115%	65 - 135	P8J2231	10-21-2008
Methylene Chloride	9.13	0.50		ppbv	91%	65 - 135	P8J2231	10-21-2008
Methyl-tert-butyl Ether (MTBE)	10.4	1.00		ppbv	104%	65 - 135	P8J2231	10-21-2008
o-Xylene	11.8	0.50		ppbv	118%	65 - 135	P8J2231	10-21-2008
Propene	10.7	0.50		ppbv	107%	65 - 135	P8J2231	10-21-2008
Styrene	10.9	0.50		ppbv	109%	65 - 135	P8J2231	10-21-2008
Tetrachloroethene	9.10	0.50		ppbv	91%	65 - 135	P8J2231	10-21-2008
Tetrahydrofuran	11.4	2.00		ppbv	114%	65 - 135	P8J2231	10-21-2008
Toluene	11.5	0.50		ppbv	115%	65 - 135	P8J2231	10-21-2008
trans-1,2-Dichloroethene	10.1	0.50		ppbv	101%	65 - 135	P8J2231	10-21-2008
trans-1,3-Dichloropropene	11.3	0.50		ppbv	113%	65 - 135	P8J2231	10-21-2008
Trichloroethene	11.0	0.50		ppbv	110%	65 - 135	P8J2231	10-21-2008
Trichlorofluoromethane	10.8	0.50		ppbv	108%	65 - 135	P8J2231	10-21-2008
Vinyl Acetate	10.8	0.50		ppbv	108%	65 - 135	P8J2231	10-21-2008
Vinyl chloride	10.8	0.50		ppbv	108%	65 - 135	P8J2231	10-21-2008
Surrogate: 4-Bromofluorobenzene	10.2	0.50			102%	70 - 130	P8J2231	10-21-2008
P8J2422-BS1								
1,1,1-Trichloroethane	10.6	0.50		ppbv	106%	65 - 135	P8J2422	10-23-2008
1,1,2,2-Tetrachloroethane	9.86	0.50		ppbv	99%	65 - 135	P8J2422	10-23-2008
1,1,2-Trichloroethane	9.89	0.50		ppbv	99%	65 - 135	P8J2422	10-23-2008
1,1-Dichloroethane	9.56	0.50		ppbv	96%	65 - 135	P8J2422	10-23-2008
1,1-Dichloroethene	11.1	0.50		ppbv	111%	65 - 135	P8J2422	10-23-2008
1,2,4-Trichlorobenzene	8.84	2.00		ppbv	88%	65 - 135	P8J2422	10-23-2008
1,2,4-Trimethylbenzene	10.2	0.50		ppbv	102%	65 - 135	P8J2422	10-23-2008
1,2-Dibromoethane (EDB)	10.4	0.50		ppbv	104%	65 - 135	P8J2422	10-23-2008

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Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8J2422-BS1								
1,2-Dichlorobenzene	10.7	0.50		ppbv	107%	65 - 135	P8J2422	10-23-2008
1,2-Dichloroethane	10.2	0.50		ppbv	102%	65 - 135	P8J2422	10-23-2008
1,2-Dichloropropane	10.4	0.50		ppbv	104%	65 - 135	P8J2422	10-23-2008
1,3,5-Trimethylbenzene	11.0	0.50		ppbv	110%	65 - 135	P8J2422	10-23-2008
1,3-Butadiene	10.5	0.50		ppbv	105%	65 - 135	P8J2422	10-23-2008
1,3-Dichlorobenzene	10.7	0.50		ppbv	107%	65 - 135	P8J2422	10-23-2008
1,4-Dichlorobenzene	11.6	0.50		ppbv	116%	65 - 135	P8J2422	10-23-2008
2,2,4-Trimethylpentane	11.0	0.50		ppbv	110%	65 - 135	P8J2422	10-23-2008
2-Butanone (MEK)	10.4	1.00		ppbv	104%	65 - 135	P8J2422	10-23-2008
2-Hexanone	8.25	1.00		ppbv	82%	65 - 135	P8J2422	10-23-2008
2-Propanol	8.10	2.00		ppbv	81%	65 - 135	P8J2422	10-23-2008
4-Ethyltoluene	10.6	0.50		ppbv	106%	65 - 135	P8J2422	10-23-2008
4-Methyl-2-pentanone (MIBK)	9.49	1.00		ppbv	95%	65 - 135	P8J2422	10-23-2008
Acetone	10.8	5.00		ppbv	108%	65 - 135	P8J2422	10-23-2008
Allyl Chloride	11.6	0.50		ppbv	116%	65 - 135	P8J2422	10-23-2008
Benzene	11.6	0.50		ppbv	116%	65 - 135	P8J2422	10-23-2008
Benzyl Chloride	9.50	2.00		ppbv	95%	65 - 135	P8J2422	10-23-2008
Bromodichloromethane	9.55	0.50		ppbv	96%	65 - 135	P8J2422	10-23-2008
Bromoethene(Vinyl Bromide)	10.7	0.50		ppbv	107%	65 - 135	P8J2422	10-23-2008
Bromoform	10.2	0.50		ppbv	102%	65 - 135	P8J2422	10-23-2008
Bromomethane	9.08	0.50		ppbv	91%	65 - 135	P8J2422	10-23-2008
Carbon disulfide	9.17	0.50		ppbv	92%	65 - 135	P8J2422	10-23-2008
Carbon tetrachloride	9.15	0.50		ppbv	92%	65 - 135	P8J2422	10-23-2008
Chlorobenzene	10.3	0.50		ppbv	103%	65 - 135	P8J2422	10-23-2008
Chloroethane	9.41	0.50		ppbv	94%	65 - 135	P8J2422	10-23-2008
Chloroform	10.7	0.50		ppbv	107%	65 - 135	P8J2422	10-23-2008
Chloromethane	9.97	0.50		ppbv	100%	65 - 135	P8J2422	10-23-2008
cis-1,2-Dichloroethene	10.9	0.50		ppbv	109%	65 - 135	P8J2422	10-23-2008
cis-1,3-Dichloropropene	9.84	0.50		ppbv	98%	65 - 135	P8J2422	10-23-2008
Cyclohexane	12.7	0.50		ppbv	127%	65 - 135	P8J2422	10-23-2008
Dibromochloromethane	9.84	0.50		ppbv	98%	65 - 135	P8J2422	10-23-2008
Dichlorodifluoromethane	10.1	0.50		ppbv	101%	65 - 135	P8J2422	10-23-2008
Dichlorotetrafluoroethane(F-114)	10.2	0.50		ppbv	102%	65 - 135	P8J2422	10-23-2008
Ethyl Acetate	11.0	0.50		ppbv	110%	65 - 135	P8J2422	10-23-2008
Ethylbenzene	10.9	0.50		ppbv	109%	65 - 135	P8J2422	10-23-2008
Freon 113	10.2	0.50		ppbv	102%	65 - 135	P8J2422	10-23-2008
Heptane	10.8	0.50		ppbv	108%	65 - 135	P8J2422	10-23-2008
Hexachlorobutadiene	9.80	1.00		ppbv	98%	65 - 135	P8J2422	10-23-2008

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8J2422-BS1								
Hexane	10.8	0.50		ppbv	108%	65 - 135	P8J2422	10-23-2008
m,p-Xylenes	23.2	1.00		ppbv	116%	65 - 135	P8J2422	10-23-2008
Methylene Chloride	10.3	0.50		ppbv	103%	65 - 135	P8J2422	10-23-2008
Methyl-tert-butyl Ether (MTBE)	9.79	1.00		ppbv	98%	65 - 135	P8J2422	10-23-2008
o-Xylene	11.7	0.50		ppbv	117%	65 - 135	P8J2422	10-23-2008
Propene	10.4	0.50		ppbv	104%	65 - 135	P8J2422	10-23-2008
Styrene	10.3	0.50		ppbv	103%	65 - 135	P8J2422	10-23-2008
Tetrachloroethene	9.30	0.50		ppbv	93%	65 - 135	P8J2422	10-23-2008
Tetrahydrofuran	9.24	2.00		ppbv	92%	65 - 135	P8J2422	10-23-2008
Toluene	10.8	0.50		ppbv	108%	65 - 135	P8J2422	10-23-2008
trans-1,2-Dichloroethene	10.7	0.50		ppbv	107%	65 - 135	P8J2422	10-23-2008
trans-1,3-Dichloropropene	10.5	0.50		ppbv	105%	65 - 135	P8J2422	10-23-2008
Trichloroethene	9.20	0.50		ppbv	92%	65 - 135	P8J2422	10-23-2008
Trichlorofluoromethane	11.2	0.50		ppbv	112%	65 - 135	P8J2422	10-23-2008
Vinyl Acetate	10.4	0.50		ppbv	104%	65 - 135	P8J2422	10-23-2008
Vinyl chloride	11.0	0.50		ppbv	110%	65 - 135	P8J2422	10-23-2008
Surrogate: 4-Bromofluorobenzene	10.1	0.50			101%	70 - 130	P8J2422	10-23-2008
P8J3020-BS1								
1,1,1-Trichloroethane	10.6	0.50		ppbv	106%	65 - 135	P8J3020	10-29-2008
1,1,2,2-Tetrachloroethane	9.01	0.50		ppbv	90%	65 - 135	P8J3020	10-29-2008
1,1,2-Trichloroethane	8.77	0.50		ppbv	88%	65 - 135	P8J3020	10-29-2008
1,1-Dichloroethane	8.84	0.50		ppbv	88%	65 - 135	P8J3020	10-29-2008
1,1-Dichloroethene	8.31	0.50		ppbv	83%	65 - 135	P8J3020	10-29-2008
1,2,4-Trichlorobenzene	9.27	2.00		ppbv	93%	65 - 135	P8J3020	10-29-2008
1,2,4-Trimethylbenzene	11.7	0.50		ppbv	117%	65 - 135	P8J3020	10-29-2008
1,2-Dibromoethane (EDB)	9.24	0.50		ppbv	92%	65 - 135	P8J3020	10-29-2008
1,2-Dichlorobenzene	9.23	0.50		ppbv	92%	65 - 135	P8J3020	10-29-2008
1,2-Dichloroethane	9.44	0.50		ppbv	94%	65 - 135	P8J3020	10-29-2008
1,2-Dichloropropane	9.03	0.50		ppbv	90%	65 - 135	P8J3020	10-29-2008
1,3,5-Trimethylbenzene	10.8	0.50		ppbv	108%	65 - 135	P8J3020	10-29-2008
1,3-Butadiene	8.59	0.50		ppbv	86%	65 - 135	P8J3020	10-29-2008
1,3-Dichlorobenzene	9.55	0.50		ppbv	96%	65 - 135	P8J3020	10-29-2008
1,4-Dichlorobenzene	9.74	0.50		ppbv	97%	65 - 135	P8J3020	10-29-2008
2,2,4-Trimethylpentane	8.76	0.50		ppbv	88%	65 - 135	P8J3020	10-29-2008
2-Butanone (MEK)	10.6	1.00		ppbv	106%	65 - 135	P8J3020	10-29-2008
2-Hexanone	9.25	1.00		ppbv	92%	65 - 135	P8J3020	10-29-2008
2-Propanol	10.5	2.00		ppbv	105%	65 - 135	P8J3020	10-29-2008
4-Ethyltoluene	11.2	0.50		ppbv	112%	65 - 135	P8J3020	10-29-2008

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LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8J3020-BS1								
4-Methyl-2-pentanone (MIBK)	11.1	1.00		ppbv	111%	65 - 135	P8J3020	10-29-2008
Acetone	10.2	5.00		ppbv	102%	65 - 135	P8J3020	10-29-2008
Allyl Chloride	9.93	0.50		ppbv	99%	65 - 135	P8J3020	10-29-2008
Benzene	9.72	0.50		ppbv	97%	65 - 135	P8J3020	10-29-2008
Benzyl Chloride	10.6	2.00		ppbv	106%	65 - 135	P8J3020	10-29-2008
Bromodichloromethane	8.61	0.50		ppbv	86%	65 - 135	P8J3020	10-29-2008
Bromoethene(Vinyl Bromide)	9.34	0.50		ppbv	93%	65 - 135	P8J3020	10-29-2008
Bromoform	8.90	0.50		ppbv	89%	65 - 135	P8J3020	10-29-2008
Bromomethane	8.67	0.50		ppbv	87%	65 - 135	P8J3020	10-29-2008
Carbon disulfide	8.87	0.50		ppbv	89%	65 - 135	P8J3020	10-29-2008
Carbon tetrachloride	8.75	0.50		ppbv	88%	65 - 135	P8J3020	10-29-2008
Chlorobenzene	8.83	0.50		ppbv	88%	65 - 135	P8J3020	10-29-2008
Chloroethane	8.90	0.50		ppbv	89%	65 - 135	P8J3020	10-29-2008
Chloroform	10.6	0.50		ppbv	106%	65 - 135	P8J3020	10-29-2008
Chloromethane	8.59	0.50		ppbv	86%	65 - 135	P8J3020	10-29-2008
cis-1,2-Dichloroethene	9.70	0.50		ppbv	97%	65 - 135	P8J3020	10-29-2008
cis-1,3-Dichloropropene	10.5	0.50		ppbv	105%	65 - 135	P8J3020	10-29-2008
Cyclohexane	10.3	0.50		ppbv	103%	65 - 135	P8J3020	10-29-2008
Dibromochloromethane	8.94	0.50		ppbv	89%	65 - 135	P8J3020	10-29-2008
Dichlorodifluoromethane	11.1	0.50		ppbv	111%	65 - 135	P8J3020	10-29-2008
Dichlorotetrafluoroethane(F-114)	9.97	0.50		ppbv	100%	65 - 135	P8J3020	10-29-2008
Ethyl Acetate	10.4	0.50		ppbv	104%	65 - 135	P8J3020	10-29-2008
Ethylbenzene	10.4	0.50		ppbv	104%	65 - 135	P8J3020	10-29-2008
Freon 113	8.62	0.50		ppbv	86%	65 - 135	P8J3020	10-29-2008
Heptane	8.99	0.50		ppbv	90%	65 - 135	P8J3020	10-29-2008
Hexachlorobutadiene	9.42	1.00		ppbv	94%	65 - 135	P8J3020	10-29-2008
Hexane	10.8	0.50		ppbv	108%	65 - 135	P8J3020	10-29-2008
m,p-Xylenes	19.9	1.00		ppbv	100%	65 - 135	P8J3020	10-29-2008
Methylene Chloride	11.0	0.50		ppbv	110%	65 - 135	P8J3020	10-29-2008
Methyl-tert-butyl Ether (MTBE)	11.0	1.00		ppbv	110%	65 - 135	P8J3020	10-29-2008
o-Xylene	9.84	0.50		ppbv	98%	65 - 135	P8J3020	10-29-2008
Propene	9.04	0.50		ppbv	90%	65 - 135	P8J3020	10-29-2008
Styrene	11.3	0.50		ppbv	113%	65 - 135	P8J3020	10-29-2008
Tetrachloroethene	8.14	0.50		ppbv	81%	65 - 135	P8J3020	10-29-2008
Tetrahydrofuran	10.9	2.00		ppbv	109%	65 - 135	P8J3020	10-29-2008
Toluene	10.0	0.50		ppbv	100%	65 - 135	P8J3020	10-29-2008
trans-1,2-Dichloroethene	9.45	0.50		ppbv	94%	65 - 135	P8J3020	10-29-2008
trans-1,3-Dichloropropene	10.7	0.50		ppbv	107%	65 - 135	P8J3020	10-29-2008

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THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Andrew MacHugh	Work Order: PRJ0685 Project: HES Project Number: HES Soil Vapor	Received: 10/10/08 Reported: 11/11/08 06:07	

LCS - Cont.

Analyte	Result	RL	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Volatile Organic Compounds by EPA TO-15								
P8J3020-BS1								
Trichloroethene	8.00	0.50		ppbv	80%	65 - 135	P8J3020	10-29-2008
Trichlorofluoromethane	8.60	0.50		ppbv	86%	65 - 135	P8J3020	10-29-2008
Vinyl Acetate	11.6	0.50		ppbv	116%	65 - 135	P8J3020	10-29-2008
Vinyl chloride	9.68	0.50		ppbv	97%	65 - 135	P8J3020	10-29-2008
Surrogate: 4-Bromofluorobenzene	10.0	0.50			100%	70 - 130	P8J3020	10-29-2008

LCS Dup

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
P8J2231-BSD1												
1,1,1-Trichloroethane	10.5	0.50		ppbv	10.0	105%	65 - 135	0.8	25	P8J2231		10-21-2008
1,1,2,2-Tetrachloroethane	11.2	0.50		ppbv	10.0	112%	65 - 135	0.4	25	P8J2231		10-21-2008
1,1,2-Trichloroethane	10.6	0.50		ppbv	10.0	106%	65 - 135	1	25	P8J2231		10-21-2008
1,1-Dichloroethane	11.2	0.50		ppbv	10.0	112%	65 - 135	3	25	P8J2231		10-21-2008
1,1-Dichloroethene	10.6	0.50		ppbv	10.0	106%	65 - 135	9	25	P8J2231		10-21-2008
1,2,4-Trichlorobenzene	13.8	2.00	L3	ppbv	10.0	138%	65 - 135	6	25	P8J2231		10-21-2008
1,2,4-Trimethylbenzene	10.9	0.50		ppbv	10.0	109%	65 - 135	0.6	25	P8J2231		10-21-2008
1,2-Dibromoethane (EDB)	9.49	0.50		ppbv	10.0	95%	65 - 135	0.7	25	P8J2231		10-21-2008
1,2-Dichlorobenzene	10.5	0.50		ppbv	10.0	105%	65 - 135	2	25	P8J2231		10-21-2008
1,2-Dichloroethane	10.9	0.50		ppbv	10.0	109%	65 - 135	2	25	P8J2231		10-21-2008
1,2-Dichloropropane	11.0	0.50		ppbv	10.0	110%	65 - 135	0.09	25	P8J2231		10-21-2008
1,3,5-Trimethylbenzene	12.4	0.50		ppbv	10.0	124%	65 - 135	2	25	P8J2231		10-21-2008
1,3-Butadiene	12.4	0.50		ppbv	10.0	124%	65 - 135	4	25	P8J2231		10-21-2008
1,3-Dichlorobenzene	10.4	0.50		ppbv	10.0	104%	65 - 135	0.9	25	P8J2231		10-21-2008
1,4-Dichlorobenzene	11.0	0.50		ppbv	10.0	110%	65 - 135	0.6	25	P8J2231		10-21-2008
2,2,4-Trimethylpentane	10.6	0.50		ppbv	10.0	106%	65 - 135	1	25	P8J2231		10-21-2008
2-Butanone (MEK)	11.6	1.00		ppbv	10.0	116%	65 - 135	7	25	P8J2231		10-21-2008
2-Hexanone	10.2	1.00		ppbv	10.0	102%	65 - 135	17	25	P8J2231		10-21-2008
2-Propanol	13.2	2.00		ppbv	10.0	132%	65 - 135	12	25	P8J2231		10-21-2008
4-Ethyltoluene	11.1	0.50		ppbv	10.0	111%	65 - 135	0.4	25	P8J2231		10-21-2008
4-Methyl-2-pentanone (MIBK)	11.6	1.00		ppbv	10.0	116%	65 - 135	6	25	P8J2231		10-21-2008
Acetone	11.5	5.00		ppbv	10.0	115%	65 - 135	9	25	P8J2231		10-21-2008
Allyl Chloride	11.7	0.50		ppbv	10.0	117%	65 - 135	0.5	25	P8J2231		10-21-2008
Benzene	10.4	0.50		ppbv	10.0	104%	65 - 135	4	25	P8J2231		10-21-2008
Benzyl Chloride	12.6	2.00		ppbv	10.0	126%	65 - 135	0.2	25	P8J2231		10-21-2008
Bromodichloromethane	10.6	0.50		ppbv	10.0	106%	65 - 135	1	25	P8J2231		10-21-2008
Bromoethene(Vinyl Bromide)	10.3	0.50		ppbv	10.0	103%	65 - 135	3	25	P8J2231		10-21-2008
Bromoform	10.9	0.50		ppbv	10.0	109%	65 - 135	2	25	P8J2231		10-21-2008
Bromomethane	9.04	0.50		ppbv	10.0	90%	65 - 135	2	25	P8J2231		10-21-2008

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
P8J2231-BSD1												
Carbon disulfide	10.7	0.50		ppbv	10.0	107%	65 - 135	0	25	P8J2231		10-21-2008
Carbon tetrachloride	10.6	0.50		ppbv	10.0	106%	65 - 135	0.2	25	P8J2231		10-21-2008
Chlorobenzene	11.0	0.50		ppbv	10.0	110%	65 - 135	2	25	P8J2231		10-21-2008
Chloroethane	9.50	0.50		ppbv	10.0	95%	65 - 135	2	25	P8J2231		10-21-2008
Chloroform	10.7	0.50		ppbv	10.0	107%	65 - 135	2	25	P8J2231		10-21-2008
Chloromethane	10.5	0.50		ppbv	10.0	105%	65 - 135	2	25	P8J2231		10-21-2008
cis-1,2-Dichloroethene	10.6	0.50		ppbv	10.0	106%	65 - 135	0.6	25	P8J2231		10-21-2008
cis-1,3-Dichloropropene	11.5	0.50		ppbv	10.0	115%	65 - 135	4	25	P8J2231		10-21-2008
Cyclohexane	12.0	0.50		ppbv	10.0	120%	65 - 135	0.4	25	P8J2231		10-21-2008
Dibromochloromethane	10.6	0.50		ppbv	10.0	106%	65 - 135	2	25	P8J2231		10-21-2008
Dichlorodifluoromethane	10.1	0.50		ppbv	10.0	101%	65 - 135	0	25	P8J2231		10-21-2008
Dichlorotetrafluoroethane(F-114)	10.3	0.50		ppbv	10.0	103%	65 - 135	0.5	25	P8J2231		10-21-2008
Ethyl Acetate	10.7	0.50		ppbv	10.0	107%	65 - 135	11	25	P8J2231		10-21-2008
Ethylbenzene	12.0	0.50		ppbv	10.0	120%	65 - 135	0.2	25	P8J2231		10-21-2008
Freon 113	11.0	0.50		ppbv	10.0	110%	65 - 135	0.3	25	P8J2231		10-21-2008
Heptane	10.4	0.50		ppbv	10.0	104%	65 - 135	1	25	P8J2231		10-21-2008
Hexachlorobutadiene	0.00	1.00	L4	ppbv	10.0	0%	65 - 135		25	P8J2231		10-21-2008
Hexane	13.0	0.50		ppbv	10.0	130%	65 - 135	10	25	P8J2231		10-21-2008
m,p-Xylenes	23.0	1.00		ppbv	20.0	115%	65 - 135	0.3	25	P8J2231		10-21-2008
Methylene Chloride	9.19	0.50		ppbv	10.0	92%	65 - 135	0.7	25	P8J2231		10-21-2008
Methyl-tert-butyl Ether (MTBE)	11.4	1.00		ppbv	10.0	114%	65 - 135	9	25	P8J2231		10-21-2008
o-Xylene	11.6	0.50		ppbv	10.0	116%	65 - 135	2	25	P8J2231		10-21-2008
Propene	11.8	0.50		ppbv	10.0	118%	65 - 135	10	25	P8J2231		10-21-2008
Styrene	10.6	0.50		ppbv	10.0	106%	65 - 135	3	25	P8J2231		10-21-2008
Tetrachloroethene	8.79	0.50		ppbv	10.0	88%	65 - 135	3	25	P8J2231		10-21-2008
Tetrahydrofuran	11.4	2.00		ppbv	10.0	114%	65 - 135	0.2	25	P8J2231		10-21-2008
Toluene	11.3	0.50		ppbv	10.0	113%	65 - 135	2	25	P8J2231		10-21-2008
trans-1,2-Dichloroethene	10.5	0.50		ppbv	10.0	105%	65 - 135	4	25	P8J2231		10-21-2008
trans-1,3-Dichloropropene	10.9	0.50		ppbv	10.0	109%	65 - 135	3	25	P8J2231		10-21-2008
Trichloroethene	10.8	0.50		ppbv	10.0	108%	65 - 135	2	25	P8J2231		10-21-2008
Trichlorofluoromethane	10.8	0.50		ppbv	10.0	108%	65 - 135	0.5	25	P8J2231		10-21-2008
Vinyl Acetate	12.0	0.50		ppbv	10.0	120%	65 - 135	10	25	P8J2231		10-21-2008
Vinyl chloride	11.2	0.50		ppbv	10.0	112%	65 - 135	4	25	P8J2231		10-21-2008
Surrogate: 4-Bromofluorobenzene	10.1	0.50		ppbv	10.0	101%	70 - 130			P8J2231		10-21-2008
P8J2422-BSD1												
1,1,1-Trichloroethane	11.0	0.50		ppbv	10.0	110%	65 - 135	4	25	P8J2422		10-23-2008
1,1,2,2-Tetrachloroethane	10.2	0.50		ppbv	10.0	102%	65 - 135	3	25	P8J2422		10-23-2008
1,1,2-Trichloroethane	10.1	0.50		ppbv	10.0	101%	65 - 135	2	25	P8J2422		10-23-2008
1,1-Dichloroethane	10.1	0.50		ppbv	10.0	101%	65 - 135	5	25	P8J2422		10-23-2008
1,1-Dichloroethene	11.6	0.50		ppbv	10.0	116%	65 - 135	5	25	P8J2422		10-23-2008

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
P8J2422-BSD1												
1,2,4-Trichlorobenzene	13.1	2.00	R6	ppbv	10.0	131%	65 - 135	39	25	P8J2422		10-23-2008
1,2,4-Trimethylbenzene	10.6	0.50		ppbv	10.0	106%	65 - 135	3	25	P8J2422		10-23-2008
1,2-Dibromoethane (EDB)	10.7	0.50		ppbv	10.0	107%	65 - 135	3	25	P8J2422		10-23-2008
1,2-Dichlorobenzene	11.3	0.50		ppbv	10.0	113%	65 - 135	6	25	P8J2422		10-23-2008
1,2-Dichloroethane	10.6	0.50		ppbv	10.0	106%	65 - 135	3	25	P8J2422		10-23-2008
1,2-Dichloropropane	10.7	0.50		ppbv	10.0	107%	65 - 135	3	25	P8J2422		10-23-2008
1,3,5-Trimethylbenzene	11.2	0.50		ppbv	10.0	112%	65 - 135	2	25	P8J2422		10-23-2008
1,3-Butadiene	11.5	0.50		ppbv	10.0	115%	65 - 135	9	25	P8J2422		10-23-2008
1,3-Dichlorobenzene	11.3	0.50		ppbv	10.0	113%	65 - 135	5	25	P8J2422		10-23-2008
1,4-Dichlorobenzene	11.9	0.50		ppbv	10.0	119%	65 - 135	3	25	P8J2422		10-23-2008
2,2,4-Trimethylpentane	11.2	0.50		ppbv	10.0	112%	65 - 135	2	25	P8J2422		10-23-2008
2-Butanone (MEK)	10.7	1.00		ppbv	10.0	107%	65 - 135	3	25	P8J2422		10-23-2008
2-Hexanone	10.3	1.00		ppbv	10.0	103%	65 - 135	22	25	P8J2422		10-23-2008
2-Propanol	8.57	2.00		ppbv	10.0	86%	65 - 135	6	25	P8J2422		10-23-2008
4-Ethyltoluene	10.9	0.50		ppbv	10.0	109%	65 - 135	3	25	P8J2422		10-23-2008
4-Methyl-2-pentanone (MIBK)	10.7	1.00		ppbv	10.0	107%	65 - 135	12	25	P8J2422		10-23-2008
Acetone	11.2	5.00		ppbv	10.0	112%	65 - 135	3	25	P8J2422		10-23-2008
Allyl Chloride	12.3	0.50		ppbv	10.0	123%	65 - 135	6	25	P8J2422		10-23-2008
Benzene	12.0	0.50		ppbv	10.0	120%	65 - 135	4	25	P8J2422		10-23-2008
Benzyl Chloride	10.0	2.00		ppbv	10.0	100%	65 - 135	6	25	P8J2422		10-23-2008
Bromodichloromethane	9.83	0.50		ppbv	10.0	98%	65 - 135	3	25	P8J2422		10-23-2008
Bromoethene(Vinyl Bromide)	11.3	0.50		ppbv	10.0	113%	65 - 135	5	25	P8J2422		10-23-2008
Bromoform	10.2	0.50		ppbv	10.0	102%	65 - 135	0.7	25	P8J2422		10-23-2008
Bromomethane	9.44	0.50		ppbv	10.0	94%	65 - 135	4	25	P8J2422		10-23-2008
Carbon disulfide	9.47	0.50		ppbv	10.0	95%	65 - 135	3	25	P8J2422		10-23-2008
Carbon tetrachloride	9.31	0.50		ppbv	10.0	93%	65 - 135	2	25	P8J2422		10-23-2008
Chlorobenzene	10.4	0.50		ppbv	10.0	104%	65 - 135	0.6	25	P8J2422		10-23-2008
Chloroethane	9.99	0.50		ppbv	10.0	100%	65 - 135	6	25	P8J2422		10-23-2008
Chloroform	11.0	0.50		ppbv	10.0	110%	65 - 135	3	25	P8J2422		10-23-2008
Chloromethane	10.7	0.50		ppbv	10.0	107%	65 - 135	7	25	P8J2422		10-23-2008
cis-1,2-Dichloroethene	11.3	0.50		ppbv	10.0	113%	65 - 135	3	25	P8J2422		10-23-2008
cis-1,3-Dichloropropene	10.4	0.50		ppbv	10.0	104%	65 - 135	5	25	P8J2422		10-23-2008
Cyclohexane	13.2	0.50		ppbv	10.0	132%	65 - 135	4	25	P8J2422		10-23-2008
Dibromochloromethane	10.1	0.50		ppbv	10.0	101%	65 - 135	3	25	P8J2422		10-23-2008
Dichlorodifluoromethane	10.5	0.50		ppbv	10.0	105%	65 - 135	4	25	P8J2422		10-23-2008
Dichlorotetrafluoroethane(F-114)	10.7	0.50		ppbv	10.0	107%	65 - 135	5	25	P8J2422		10-23-2008
Ethyl Acetate	11.6	0.50		ppbv	10.0	116%	65 - 135	5	25	P8J2422		10-23-2008
Ethylbenzene	11.0	0.50		ppbv	10.0	110%	65 - 135	1	25	P8J2422		10-23-2008
Freon 113	10.6	0.50		ppbv	10.0	106%	65 - 135	3	25	P8J2422		10-23-2008
Heptane	11.0	0.50		ppbv	10.0	110%	65 - 135	2	25	P8J2422		10-23-2008
Hexachlorobutadiene	12.6	1.00	R6	ppbv	10.0	126%	65 - 135	25	25	P8J2422		10-23-2008

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LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
P8J2422-BSD1												
Hexane	11.3	0.50		ppbv	10.0	113%	65 - 135	4	25	P8J2422		10-23-2008
m,p-Xylenes	22.3	1.00		ppbv	20.0	112%	65 - 135	4	25	P8J2422		10-23-2008
Methylene Chloride	10.7	0.50		ppbv	10.0	107%	65 - 135	4	25	P8J2422		10-23-2008
Methyl-tert-butyl Ether (MTBE)	10.6	1.00		ppbv	10.0	106%	65 - 135	8	25	P8J2422		10-23-2008
o-Xylene	11.8	0.50		ppbv	10.0	118%	65 - 135	0.9	25	P8J2422		10-23-2008
Propene	11.8	0.50		ppbv	10.0	118%	65 - 135	12	25	P8J2422		10-23-2008
Styrene	10.6	0.50		ppbv	10.0	106%	65 - 135	3	25	P8J2422		10-23-2008
Tetrachloroethene	9.55	0.50		ppbv	10.0	96%	65 - 135	3	25	P8J2422		10-23-2008
Tetrahydrofuran	9.89	2.00		ppbv	10.0	99%	65 - 135	7	25	P8J2422		10-23-2008
Toluene	10.9	0.50		ppbv	10.0	109%	65 - 135	2	25	P8J2422		10-23-2008
trans-1,2-Dichloroethene	11.4	0.50		ppbv	10.0	114%	65 - 135	6	25	P8J2422		10-23-2008
trans-1,3-Dichloropropene	10.9	0.50		ppbv	10.0	109%	65 - 135	4	25	P8J2422		10-23-2008
Trichloroethene	9.37	0.50		ppbv	10.0	94%	65 - 135	2	25	P8J2422		10-23-2008
Trichlorofluoromethane	11.5	0.50		ppbv	10.0	115%	65 - 135	3	25	P8J2422		10-23-2008
Vinyl Acetate	10.8	0.50		ppbv	10.0	108%	65 - 135	4	25	P8J2422		10-23-2008
Vinyl chloride	11.9	0.50		ppbv	10.0	119%	65 - 135	8	25	P8J2422		10-23-2008
Surrogate: 4-Bromofluorobenzene	10.1	0.50		ppbv	10.0	101%	70 - 130			P8J2422		10-23-2008
P8J3020-BSD1												
1,1,1-Trichloroethane	10.7	0.50		ppbv	10.0	107%	65 - 135	1	25	P8J3020		10-29-2008
1,1,2,2-Tetrachloroethane	9.03	0.50		ppbv	10.0	90%	65 - 135	0.2	25	P8J3020		10-29-2008
1,1,2-Trichloroethane	8.78	0.50		ppbv	10.0	88%	65 - 135	0.1	25	P8J3020		10-29-2008
1,1-Dichloroethane	9.01	0.50		ppbv	10.0	90%	65 - 135	2	25	P8J3020		10-29-2008
1,1-Dichloroethene	8.37	0.50		ppbv	10.0	84%	65 - 135	0.7	25	P8J3020		10-29-2008
1,2,4-Trichlorobenzene	9.40	2.00		ppbv	10.0	94%	65 - 135	1	25	P8J3020		10-29-2008
1,2,4-Trimethylbenzene	11.7	0.50		ppbv	10.0	117%	65 - 135	0.4	25	P8J3020		10-29-2008
1,2-Dibromoethane (EDB)	9.30	0.50		ppbv	10.0	93%	65 - 135	0.6	25	P8J3020		10-29-2008
1,2-Dichlorobenzene	9.47	0.50		ppbv	10.0	95%	65 - 135	3	25	P8J3020		10-29-2008
1,2-Dichloroethane	9.72	0.50		ppbv	10.0	97%	65 - 135	3	25	P8J3020		10-29-2008
1,2-Dichloropropane	9.19	0.50		ppbv	10.0	92%	65 - 135	2	25	P8J3020		10-29-2008
1,3,5-Trimethylbenzene	10.9	0.50		ppbv	10.0	109%	65 - 135	0.6	25	P8J3020		10-29-2008
1,3-Butadiene	8.79	0.50		ppbv	10.0	88%	65 - 135	2	25	P8J3020		10-29-2008
1,3-Dichlorobenzene	9.63	0.50		ppbv	10.0	96%	65 - 135	0.8	25	P8J3020		10-29-2008
1,4-Dichlorobenzene	9.92	0.50		ppbv	10.0	99%	65 - 135	2	25	P8J3020		10-29-2008
2,2,4-Trimethylpentane	8.66	0.50		ppbv	10.0	87%	65 - 135	1	25	P8J3020		10-29-2008
2-Butanone (MEK)	10.3	1.00		ppbv	10.0	103%	65 - 135	3	25	P8J3020		10-29-2008
2-Hexanone	10.5	1.00		ppbv	10.0	105%	65 - 135	13	25	P8J3020		10-29-2008
2-Propanol	11.6	2.00		ppbv	10.0	116%	65 - 135	10	25	P8J3020		10-29-2008
4-Ethyltoluene	11.4	0.50		ppbv	10.0	114%	65 - 135	1	25	P8J3020		10-29-2008
4-Methyl-2-pentanone (MIBK)	12.1	1.00		ppbv	10.0	121%	65 - 135	8	25	P8J3020		10-29-2008
Acetone	10.4	5.00		ppbv	10.0	104%	65 - 135	2	25	P8J3020		10-29-2008

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Errol L. Montgomery & Assoc.
5010 East Shea Blvd. Suite D-110
Scottsdale, AZ 85254
Andrew MacHugh

Work Order: PRJ0685
Project: HES
Project Number: HES Soil Vapor

Received: 10/10/08
Reported: 11/11/08 06:07

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Volatile Organic Compounds by EPA TO-15												
P8J3020-BSD1												
Allyl Chloride	10.1	0.50		ppbv	10.0	101%	65 - 135	2	25	P8J3020		10-29-2008
Benzene	10.0	0.50		ppbv	10.0	100%	65 - 135	3	25	P8J3020		10-29-2008
Benzyl Chloride	10.9	2.00		ppbv	10.0	109%	65 - 135	3	25	P8J3020		10-29-2008
Bromodichloromethane	8.54	0.50		ppbv	10.0	85%	65 - 135	0.8	25	P8J3020		10-29-2008
Bromoethene(Vinyl Bromide)	9.54	0.50		ppbv	10.0	95%	65 - 135	2	25	P8J3020		10-29-2008
Bromoform	9.01	0.50		ppbv	10.0	90%	65 - 135	1	25	P8J3020		10-29-2008
Bromomethane	8.73	0.50		ppbv	10.0	87%	65 - 135	0.7	25	P8J3020		10-29-2008
Carbon disulfide	8.94	0.50		ppbv	10.0	89%	65 - 135	0.8	25	P8J3020		10-29-2008
Carbon tetrachloride	8.79	0.50		ppbv	10.0	88%	65 - 135	0.5	25	P8J3020		10-29-2008
Chlorobenzene	8.85	0.50		ppbv	10.0	88%	65 - 135	0.2	25	P8J3020		10-29-2008
Chloroethane	9.00	0.50		ppbv	10.0	90%	65 - 135	1	25	P8J3020		10-29-2008
Chloroform	10.7	0.50		ppbv	10.0	107%	65 - 135	0.5	25	P8J3020		10-29-2008
Chloromethane	8.79	0.50		ppbv	10.0	88%	65 - 135	2	25	P8J3020		10-29-2008
cis-1,2-Dichloroethene	9.74	0.50		ppbv	10.0	97%	65 - 135	0.4	25	P8J3020		10-29-2008
cis-1,3-Dichloropropene	10.5	0.50		ppbv	10.0	105%	65 - 135	0.4	25	P8J3020		10-29-2008
Cyclohexane	10.4	0.50		ppbv	10.0	104%	65 - 135	1	25	P8J3020		10-29-2008
Dibromochloromethane	8.84	0.50		ppbv	10.0	88%	65 - 135	1	25	P8J3020		10-29-2008
Dichlorodifluoromethane	11.2	0.50		ppbv	10.0	112%	65 - 135	1	25	P8J3020		10-29-2008
Dichlorotetrafluoroethane(F-114)	10.2	0.50		ppbv	10.0	102%	65 - 135	2	25	P8J3020		10-29-2008
Ethyl Acetate	10.6	0.50		ppbv	10.0	106%	65 - 135	2	25	P8J3020		10-29-2008
Ethylbenzene	10.5	0.50		ppbv	10.0	105%	65 - 135	0.9	25	P8J3020		10-29-2008
Freon 113	8.63	0.50		ppbv	10.0	86%	65 - 135	0.1	25	P8J3020		10-29-2008
Heptane	8.82	0.50		ppbv	10.0	88%	65 - 135	2	25	P8J3020		10-29-2008
Hexachlorobutadiene	9.27	1.00		ppbv	10.0	93%	65 - 135	2	25	P8J3020		10-29-2008
Hexane	11.0	0.50		ppbv	10.0	110%	65 - 135	1	25	P8J3020		10-29-2008
m,p-Xylenes	19.3	1.00		ppbv	20.0	97%	65 - 135	3	25	P8J3020		10-29-2008
Methylene Chloride	11.2	0.50		ppbv	10.0	112%	65 - 135	2	25	P8J3020		10-29-2008
Methyl-tert-butyl Ether (MTBE)	11.3	1.00		ppbv	10.0	113%	65 - 135	2	25	P8J3020		10-29-2008
o-Xylene	9.96	0.50		ppbv	10.0	100%	65 - 135	1	25	P8J3020		10-29-2008
Propene	9.35	0.50		ppbv	10.0	94%	65 - 135	3	25	P8J3020		10-29-2008
Styrene	11.4	0.50		ppbv	10.0	114%	65 - 135	1	25	P8J3020		10-29-2008
Tetrachloroethene	8.07	0.50		ppbv	10.0	81%	65 - 135	0.9	25	P8J3020		10-29-2008
Tetrahydrofuran	11.0	2.00		ppbv	10.0	110%	65 - 135	0.8	25	P8J3020		10-29-2008
Toluene	10.0	0.50		ppbv	10.0	100%	65 - 135	0.3	25	P8J3020		10-29-2008
trans-1,2-Dichloroethene	9.47	0.50		ppbv	10.0	95%	65 - 135	0.2	25	P8J3020		10-29-2008
trans-1,3-Dichloropropene	10.7	0.50		ppbv	10.0	107%	65 - 135	0.6	25	P8J3020		10-29-2008
Trichloroethene	7.85	0.50		ppbv	10.0	78%	65 - 135	2	25	P8J3020		10-29-2008
Trichlorofluoromethane	8.65	0.50		ppbv	10.0	86%	65 - 135	0.6	25	P8J3020		10-29-2008
Vinyl Acetate	11.6	0.50		ppbv	10.0	116%	65 - 135	0.3	25	P8J3020		10-29-2008
Vinyl chloride	9.89	0.50		ppbv	10.0	99%	65 - 135	2	25	P8J3020		10-29-2008
Surrogate: 4-Bromofluorobenzene	10.0	0.50		ppbv	10.0	100%	70 - 130			P8J3020		10-29-2008

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Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Andrew MacHugh	Work Order: PRJ0685 Project: HES Project Number: HES Soil Vapor	Received: 10/10/08 Reported: 11/11/08 06:07	

LCS Dup - Cont.

Analyte	Result	RL	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date

Volatile Organic Compounds by EPA TO-15

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Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Andrew MacHugh	Work Order: PRJ0685 Project: HES Project Number: HES Soil Vapor	Received: 10/10/08 Reported: 11/11/08 06:07	

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

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

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

Samples were analyzed using methods outlined in references such as:

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

Analytical Comments:

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

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

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

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Errol L. Montgomery & Assoc. 5010 East Shea Blvd. Suite D-110 Scottsdale, AZ 85254 Andrew MacHugh	Work Order: PRJ0685 Project: HES Project Number: HES Soil Vapor	Received: 10/10/08 Reported: 11/11/08 06:07	

DATA QUALIFIERS AND DEFINITIONS

D4	Reporting limit raised due to insufficient sample volume.
L3	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L4	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
R6	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
T4	Tentatively identified compound. Concentration is estimated based on the closest internal standard.
TIC	Analyzed by MS T.I.C. (Tentatively Identified Compound)

ADDITIONAL COMMENTS

PRJ0685

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Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

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TestAmerica Phoenix
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Phoenix, AZ 85040
Phone 602.437.3340 Fax 602.454.9303

Client Contact Information

Company: MONTGOMERY & ASSOCIATES
Address: 5010 E SHEA BLVD, D-110
City/State/Zip: SCOTTSDALE, AZ 85258
Phone: (480) 948.7747
FAX: (480) 948.8737
Project Name: HES SOIL VAPOR
Site: HES
PO # 366.20

Project Manager: ANDREW MACHUGH
Phone: (602) 430.2785
Email: amachugh@elmontgomery.com
~~Site Contact:~~
LAB Contact: Carlene McCutcheon

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Samples Collected By:

	Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (~~Full or IAQ~~) NIBW COCs	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section) ~~PCBs~~ DIFLUOROETHANE AS TRACER	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1	HES-SG-3	10/10/08	0854	0900	0.4, 1.0, 6.0	NA	1642	X					X						
2	HES-SG-2		0938	0944	0.4, 1.0, 6.0	NA	1611	X					X						
3	HES-SG-1		1014	1021	0.4, 1.0, 6.0	NA	0007	X					X						
4	HES-SG-4		1053	1059	0.4, 1.0, 6.0	NA	1628	X					X						
5	HES-SG-7		1250	1256	0.4, 1.0, 6.0	NA	1301	X					X						
6	HES-SG-8		1316	1328	0.4, 1.0, 6.0	NA	1241	X					X						
7	HES-SG-6		1354	1403	0.4, 1.0, 6.0	NA	1434	X					X						
8	HES-SG-10		1409	1418	0.4, 1.0, 6.0	NA	1649	X					X						
9	HES-SG-5		1421	1429	0.4, 1.0, 6.0	NA	0259	X					X						
		~~10/10/08~~			0.4, 1.0, 6.0														
					0.4, 1.0, 6.0														
					0.4, 1.0, 6.0														

Special Instructions/QC Requirements & Comments:

* 200 ml/min FLOW CONTROLLERS USED FOR EACH CANISTER, HOWEVER, NO ID WAS MARKED ON THE FLOW CONTROLLERS.

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time: 10/10/08 @ 1519	Received by:
Relinquished by:	Date/Time: 10/10/08 1519	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

AN ENVIRONMENTAL ANALYTICAL LABRATORY

11/6/2008
Mr. Jack Adams
Errol L. Montgomery & Associates, Inc.
5010 E. Shea Blvd
Suite D110
Scottsdale AZ 85254

Project Name: HES Soil Vapor
Project #: 366.20

Dear Mr. Jack Adams

The following report includes the data for the above referenced project for sample(s) received on 10/14/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori
Project Manager

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0810318R1

Work Order Summary

CLIENT:	Mr. Jack Adams Errol L. Montgomery & Associates, Inc. 5010 E. Shea Blvd Suite D110 Scottsdale, AZ 85254	**BILL TO:**	Ms. Terry Lockwood Motorola 2900 S. Diablo Way, DW196 Tempe, AZ 85282
PHONE:	480-948-7747	**P.O. #**	366.20
FAX:		**PROJECT #**	366.20 HES Soil Vapor
DATE RECEIVED:	10/14/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	10/27/2008		
DATE REISSUED:	11/06/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	HES-SG-3	Modified TO-15	8.0 "Hg	15 psi
02A	HES-SG-9	Modified TO-15	6.0 "Hg	15 psi
03A	HES-SG-2	Modified TO-15	2.0 "Hg	15 psi
04A	HES-SG-1	Modified TO-15	6.0 "Hg	15 psi
04AA	HES-SG-1 Lab Duplicate	Modified TO-15	6.0 "Hg	15 psi
05A	HES-SG-4	Modified TO-15	4.5 "Hg	15 psi
06A	HES-SG-7	Modified TO-15	9.0 "Hg	15 psi
07A	HES-SG-8	Modified TO-15	5.5 "Hg	15 psi
08A	HES-SG-6	Modified TO-15	3.5 "Hg	15 psi
09A	HES-SG-5	Modified TO-15	5.0 "Hg	15 psi
10A	Lab Blank	Modified TO-15	NA	NA
11A	CCV	Modified TO-15	NA	NA
12A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 11/06/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-15
Errol L. Montgomery & Associates, Inc.
Workorder# 0810318R1

Nine 1 Liter Summa Canister (100% Certified) samples were received on October 14, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

PER CLIENT REQUEST, THE WORKORDER WAS REISSUED ON 11/06/08 TO REPORT ESTIMATED VALUES FOR TRICHLOROETHENE AND TETRACHLOROETHENE THAT ARE BELOW THE REPORTING LIMIT BUT GREATER THAN THE METHOD DETECTION LIMIT FOR SAMPLES HES-SG-7 AND HES-SG-8. CONCENTRATIONS THAT ARE BELOW THE LEVEL AT WHICH THE CANISTER WAS CERTIFIED (0.2 PPBV FOR COMPOUNDS REPORTED AT 0.5

PPBV AND 0.8 PPBV FOR COMPOUNDS REPORTED AT 2.0 PPBV) MAY BE FALSE POSITIVES.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: HES-SG-3

Lab ID#: 0810318R1-01A

No Detections Were Found.

Client Sample ID: HES-SG-9

Lab ID#: 0810318R1-02A

No Detections Were Found.

Client Sample ID: HES-SG-2

Lab ID#: 0810318R1-03A

No Detections Were Found.

Client Sample ID: HES-SG-1

Lab ID#: 0810318R1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.76	5.3	3.7	26

Client Sample ID: HES-SG-1 Lab Duplicate

Lab ID#: 0810318R1-04AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.76	5.1	3.7	25

Client Sample ID: HES-SG-4

Lab ID#: 0810318R1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.71	1.2	3.5	6.0

Client Sample ID: HES-SG-7

Lab ID#: 0810318R1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.87	2.2	4.2	11

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: HES-SG-8

Lab ID#: 0810318R1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.74	1.3	3.6	6.5

Client Sample ID: HES-SG-6

Lab ID#: 0810318R1-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.69	3.2	3.4	16

Client Sample ID: HES-SG-5

Lab ID#: 0810318R1-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.73	3.8	3.5	19

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Client Sample ID: HES-SG-3

Lab ID#: 0810318R1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102620**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.76**	**Date of Analysis:**	**10/27/08 12:05 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
Chloroform	0.83	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
1,1-Difluoroethane	5.5	Not Detected	15	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-9

Lab ID#: 0810318R1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102621**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.53**	**Date of Analysis:**	**10/27/08 12:54 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
Chloroform	0.76	Not Detected	3.7	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-2

Lab ID#: 0810318R1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102622**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.16**	**Date of Analysis:**	**10/27/08 01:33 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected
Chloroform	0.65	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
1,1-Difluoroethane	4.3	Not Detected	12	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-1

Lab ID#: 0810318R1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102623**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.53**	**Date of Analysis:**	**10/27/08 02:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
Chloroform	0.76	5.3	3.7	26
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	93	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-1 Lab Duplicate

Lab ID#: 0810318R1-04AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102626**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.53**	**Date of Analysis:**	**10/27/08 04:09 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
Chloroform	0.76	5.1	3.7	25
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
1,1-Difluoroethane	5.1	Not Detected	14	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-4

Lab ID#: 0810318R1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102624**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.38**	**Date of Analysis:**	**10/27/08 02:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
Chloroform	0.71	1.2	3.5	6.0
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-7

Lab ID#: 0810318R1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102625R1**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.89**	**Date of Analysis:**	**10/27/08 03:29 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected
Chloroform	0.87	2.2	4.2	11
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
1,1-Difluoroethane	5.8	Not Detected	16	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-8

Lab ID#: 0810318R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102627R1**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.47**	**Date of Analysis:**	**10/27/08 04:50 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
Chloroform	0.74	1.3	3.6	6.5
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
1,1-Difluoroethane	4.9	Not Detected	13	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	89	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-6

Lab ID#: 0810318R1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102628**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.29**	**Date of Analysis:**	**10/27/08 05:43 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
Chloroform	0.69	3.2	3.4	16
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
1,1-Difluoroethane	4.6	Not Detected	12	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: HES-SG-5

Lab ID#: 0810318R1-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102629**	**Date of Collection:**	**10/10/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**10/27/08 06:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
Chloroform	0.73	3.8	3.5	19
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
1,1-Difluoroethane	4.8	Not Detected	13	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0810318R1-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/08 12:18 PM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Chloroform	0.30	Not Detected	1.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
1,1-Difluoroethane	2.0	Not Detected	5.4	Not Detected

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	93	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0810318R1-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102602**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/08 09:42 AM**

Compound	**%Recovery**
1,1-Dichloroethene	83
Trichloroethene	101
Tetrachloroethene	93
Chloroform	95
1,1,1-Trichloroethane	107
1,1-Difluoroethane	97

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0810318R1-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7102603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/08 10:36 AM**	

Compound	**%Recovery**
1,1-Dichloroethene	94
Trichloroethene	100
Tetrachloroethene	94
Chloroform	96
1,1,1-Trichloroethane	103
1,1-Difluoroethane	Not Spiked

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager DENNIS SHIRLEY
Collected by: (Print and Sign) ANDREW MACHUGH
Company M&A
Email amachugh@elmontgomery.com
Address 3010 E SHEA BLVD City SCOTTSDALE State AZ Zip 85254
Phone (480) 948.7767 Fax (480) 948.8737

Project Info:
P.O. # 366.20
Project # 366.20
Project Name HES SOIL VAPOR

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum (" Hg) Initial	Final	Receipt	Final (psi)
01A	HES-SG-3	2211	10/10/08	0900	TO-15 + DIFLUOROETHANE	-29"	-6.5"		
02A	HES-SG-9	36385		0915	(LASTIC)	-28.6"	-4.5"		
03A	HES-SG-2	34585		0944		-25"	0*		
04A	HES-SG-1	12033		1021		-26.5"	-2"		
05A	HES-SG-4	2070		1059		-26.5"	-1.5"		
06A	HES-SG-7	34660		1256		-26.5"	-6"		
07A	HES-SG-8	2177		1328		-26.5"	-2.5"		
08A	HES-SG-6	12355		1403		-26.5"	-1"		
09A	HES-SG-5	35557		1429		-26.5"	-2"		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	10/10/08 / 1610	Monica Gregson AIL	10/14/08 1020
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
TO-15 : 5 COMPOUNDS
+ DIFLUOROETHANE
AS TRACER COMPOUND.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS	1Z E09217079341832	NA	Good	Yes No (None)	0810318

Form 1258 rev.11

ERROL L. MONTGOMERY & ASSOCIATES, INC.

APPENDIX C

LEVEL IV DATA PACKAGES (TESTAMERICA) FOR
SOIL AND SOIL-VAPOR SAMPLES AND
ELECTRONIC COMPREHENSIVE VALIDATION PACKAGE (AIR TOXICS LTD.)
FOR SOIL-VAPOR SAMPLES

(Provided on Compact Disk for Hard Copy Only)