

## **APPENDIX B-3**

### **Data Quality Evaluation Report – Soil Vapor January – March 2013**

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## B-3. DATA QUALITY EVALUATION REPORT – SOIL VAPOR JANUARY – MARCH 2013

### 1. LABORATORY DATA QUALITY SUMMARY

This laboratory data quality summary describes the findings of the data review for the First Quarter 2013 soil vapor monitoring event and is provided to document the quality of the analytical data used in the *Quarterly Pre-Remedy Monitoring and Site Investigation Report for January – March 2013, Bulk Fuels Facility, Solid Waste Management Units ST-106 and SS-111* (hereafter referred to as the Quarterly Report). Sampling procedures and overall quality control (QC) and quality assurance protocols for the First Quarter 2013 soil vapor monitoring event are presented in the *Quality Assurance Project Plan, Bulk Fuels Facility (BFF) Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico* (U. S. Army Corps of Engineers [USACE], 2011).

During the period from February 14 through March 21, 2013, 288 soil vapor samples, 29 field duplicates, and 7 trip blanks were collected and submitted to RTI Laboratories, Inc. in Livonia, Michigan, for the following analyses:

- Volatile Organic Compounds (VOCs) – U. S. Environmental Protection Agency (EPA) Method TO-15
- Air Phase Petroleum Hydrocarbons (APHs) – Massachusetts Department of Environmental Protection (MA DEP)
- Fixed Gases – ASTM International (ASTM) Method D2504

The laboratory holds a current U. S. Department of Defense (DoD) Environmental Laboratory Accreditation Program certification to perform these analyses.

All analytical results for the First Quarter 2013 soil vapor monitoring event were submitted in nine sample delivery groups (SDGs). Appendix B3 – Table 1 (provided at the end of this report) summarizes sample locations, sample dates, sample numbers, and SDG numbers for the First Quarter 2013 soil vapor monitoring event. An EPA Level III data review was performed on the analytical results for the nine SDGs for the First Quarter 2013 soil vapor monitoring event. The review was performed in accordance with the guidelines and control criteria specified in the following documents:

- The site-specific Bulk Fuels Facility (BFF) Spill Quality Assurance Project Plan (QAPjP) (USACE, 2011)
- *DoD Quality Systems Manual for Environmental Laboratories, Version 4. 2* (DoD, 2010)
- *Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH)* (MA DEP, 2008)
- *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air; Compendium of Method TO-15, Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially - Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)* (EPA, 1999)
- *Standard Test Method for Noncondensable Gases in C2 and Lighter Hydrocarbon Products by Gas Chromatography*, ASTM Method D2504-88 (ASTM, 2010)
- *Environmental Quality – Guidance for Evaluating Performance-Based Chemical Data*, EM 200-1-10, (USACE, 2005)
- *USEPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review* (EPA, 2008)

The following QC elements were included in the EPA Level III data review:

- Analysis holding times
- Laboratory method blanks
- Surrogate recoveries
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries
- Relative percent differences (RPDs)
- Initial calibration
- Continuing calibration verifications (CCVs)
- Trip blanks
- Professional judgment
- Bottle Vac™ certification
- Field duplicates

Analytical data were reviewed in terms of precision, bias, representativeness, comparability, and completeness as follows:

- *Bias* is demonstrated by recovery of target analytes from fortified blank LCS/LCSDs. For organic methods, bias is also demonstrated through recovery of surrogates from each field and QC sample. The recovery of target analytes from fortified samples is compared with the acceptance criteria defined in the QAPjP (USACE, 2011) and DoD Quality Systems Manual (QSM) (2010). When the acceptance criteria are not available in the QAPjP or DoD QSM, the results are compared with the laboratory in-house control limits. When these criteria are not met, the data are qualified accordingly.
- *Precision* is expressed as the RPD between the results of replicate sample analyses, i.e., sample duplicates and LCSDs. When analyte RPDs exceed the acceptance criteria, the data are qualified accordingly.
- *Representativeness* of the samples submitted for analysis is ensured by adherence to standard sampling techniques and protocols.
- *Comparability* of sample results is ensured through the use of approved sampling and analysis methods.
- *Completeness* is expressed as a ratio of the number of usable data to the total number of analytical results.

The following sections present the EPA Level III data review findings. The discussion focuses on soil vapor sample results that are used for project decisions. Appendix B3 – Table 2 presents definitions of data qualification flags and reason codes applied to the analytical results. Appendix B3 – Table 3 presents a summary of qualified sample data. For informational purposes, qualified field QC data are also presented in this table.

## 1.1 Reason Codes

### 1.1.1 Analysis Holding Times (Reason Code H)

Sample holding times were evaluated by comparing the sample collection dates to the sample analysis dates. Analysis holding times were reviewed for all samples to determine the validity of the sample results. Holding-time exceedances were noted in EPA Method TO-15 for the First Quarter 2013 soil vapor monitoring event and are listed below:

Analytical Method	Holding Time Outliers	Holding Time Requirement	Number of Non-Compliant Samples
EPA TO-15	35 days	30 days for analysis	VA2468
EPA TO-15	35 days	30 days for analysis	VA2472

During the First Quarter 2013 soil vapor monitoring event, soil vapor samples were shipped 1 day after the sample collection date or the next business day; however, RTI Laboratories, Inc. did not receive the samples until approximately 1 week after the sample-collection date.

Specific samples from the First Quarter 2013 soil vapor monitoring event that were analyzed outside the holding-time requirement are presented in the above table and Appendix B3 – Table 3. In the original analysis, the above two listed samples were analyzed within the 30-day analysis holding-time requirement. During the data review process, it was noted that samples VA2468 and VA2472 were reported from 800 and 8,000 dilution factors, respectively, thus exceeding the dilution factors by 10 to 20 times reported from the previous sampling events. As a result of the over-dilution, aliphatic hydrocarbons and aromatic hydrocarbons were diluted out, which led to false negative results reported from the laboratory. As requested, the laboratory re-analyzed both samples at a lower dilution; however, the re-analysis was completed 5 days after the 30-day analysis holding-time had expired. The holding-time exceedances led to qualification of the detected results and limits of quantitation (LOQ) for non-detected results as estimated (J-) and (UJ), respectively. This data qualification was applied to all target analytes in both samples from the second analysis.

A review of the historical data of the affected samples indicated that the reported concentrations from the second analysis were within the historical ranges, and therefore, it does not appear that additional sample storage time had an adverse impact on the sample results. The reported sample concentrations from the second analysis are considered estimated values, and the concentrations may be biased low. The VOC results from the second analysis are reported in this Quarterly Report.

Except where noted above, the remaining soil vapor samples for VOC analysis and all soil vapor samples for APH analysis from the First Quarter 2013 soil vapor monitoring event met the holding-time requirement. Holding time is not specified in ASTM Method D2504, and therefore, soil vapor samples for fixed vapors analysis were not reviewed for compliance with a holding-time requirement.

### 1.1.2 Laboratory Method Blanks (Reason Code B1)

The field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch and for each analytical method. All laboratory method blanks were free of VOCs by EPA Method TO-15, APH by MA DEP, and fixed gases by ASTM Method D2504.

### 1.1.3 Surrogate Recoveries (Reason Code S)

Surrogate standards are organic compounds added to field and laboratory QC samples for organic analysis to evaluate matrix effect and method performance on an individual sample basis. Non-compliant surrogate recoveries were observed in a few VOC samples. The affected sample numbers, reported surrogate recoveries, and acceptance criteria are summarized below:

Analytical Method	Sample Numbers	Surrogate Recovery Outlier (%)	Control Range (%)
EPA TO-15	VA2307	4-Bromofluorobenzene: 161%	70-130%
	VA2309	4-Bromofluorobenzene: 152%	70-130%

As a result of the high biased surrogate recoveries, the detected results in the above-listed samples were qualified as estimated (J+). The high biased surrogate recoveries did not affect non-detected results in the samples. As documented in laboratory case narratives, elevated concentrations of non-target analytes were present in the above samples, which caused matrix interference to affect the accuracy of the analysis. Except where noted above, the surrogate 4-bromofluorobenzene was recovered within the accuracy criteria for all other VOCs samples. Surrogate results were acceptable for all APH samples for

the First Quarter 2013 soil vapor monitoring event. No surrogates were spiked into any samples analyzed for fixed gases, as the bias of this analysis is assessed through LCS and LCSD recoveries.

#### 1.1.4 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precisions (Reason Codes L and D1)

The LCS is an aliquot of analyte-free matrix spiked with target analytes that is prepared with each analytical batch for each analytical method. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. The LCS bias and precision results meet the established QC requirements for ASTM Method D2504 for the First Quarter 2013 soil vapor monitoring event.

As requested, the laboratory implemented corrective actions and performed the required LCS analysis for both EPA Method TO-15 and the MA DEP Method. The LCS results met the acceptance criteria for all laboratory QC batches for the MA DEP Method. Non-compliant LCS recoveries were reported for several batches for EPA Method TO-15, as presented below:

Analytical Method	Laboratory Batch#	LCS Recovery Outlier (%)	Control Range (%)
EPA TO-15	R57126	Naphthalene: 134%	70-130%
		1,2,3-trichlorochlorobenzene: 131%	70-130%
	R57157	Naphthalene: 135%	70-130%
		1,2,3-trichlorochlorobenzene: 133%	70-130%
	R57179	Naphthalene: 140%	70-130%
		1,2,3-trichlorochlorobenzene: 133%	70-130%
	R57276	Naphthalene: 140%	70-130%
		1,2,3-trichlorochlorobenzene: 140%	70-130%
	R57295	Naphthalene: 141%	70-130%
		1,2,3-trichlorochlorobenzene: 133%	70-130%
	R57120	Naphthalene: 131%	70-130%
	R57276	Naphthalene: 149%	70-130%
1,2,3-trichlorochlorobenzene: 140%		70-130%	

As indicated in the above table, the reported LCS recoveries for naphthalene and 1,2,3-trichlorobenzene in the listed batches exceeded the upper control limit. The high biased LCS recoveries did not affect the



sample results because both analytes were not detected in any samples associated with the LCS recovery outliers. No data qualification was warranted because of the biased LCS recoveries.

For EPA Method TO-15 and the MA DEP Method, the laboratory performed sample duplicate analyses on project-specific soil vapor samples to assess method precision. During the First Quarter 2013 soil vapor monitoring event, laboratory duplicate analyses were performed for a total of 25 soil vapor samples for VOCs analysis and 18 soil vapor samples for APHs analysis. Precision outliers were reported for EPA Method TO-15 as follows:

Analytical Method	Laboratory QC Batch Number	Laboratory Duplicate Sample	Laboratory Duplicate Precision Outlier (%)	Control Limit (%)
EPA TO-15	R56388	VA2410	Total xylenes: 50.9%	<25%
	R57210	VA2384	Acetone: 42.3%	<25%

Due to the sample duplicate precision outlier listed above, total xylene results in six VOC samples and acetone results in nine VOC samples by EPA Method TO-15 were qualified as estimated (J). This data qualification was applied to project samples with detected results of the listed analytes in the non-compliant batches. The data usability of the qualified results is not affected because of the laboratory duplicate precision outliers.

The precision requirement was achieved for the majority of the VOCs. Exceptions were observed for three laboratory duplicate samples (VA2274, VA2570, and VA2269) for VOCs analysis. As noted in laboratory reports, the laboratory selected three VOC samples (VA2274, VA2570, and VA2269) for laboratory duplicate analysis. In all three cases, the VOC results in the parent samples were reported from a run with a lower dilution factor; while the VOC results from the duplicate analysis were quantified from a run with a higher dilution factor. A review of the duplicate samples for the EPA Method TO-15 indicated that the three duplicate samples were over-diluted, thus resulting in false negative results for

some target analytes. Precision results for these laboratory duplicate pair samples were therefore not meaningful because appropriate dilutions were not determined for the duplicate samples, and not all sample results were quantified within the instrument-calibration range. It should be noted that the laboratory performed appropriate dilutions on the parent samples, and all VOCs results in the parent samples were reported within the instrument range.

The precision requirement was achieved for all laboratory duplicate analysis for the MA DEP Method.

### **1.1.5 Initial Calibration (Reason Code G)**

Instrument calibration is performed for VOCs, APHs, and fixed gases analyses according to the method requirements. The linear analytical range is established for each method by analysis of standards prepared at increasing concentrations that cover the expected sample concentrations. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation or coefficient. The initial calibration results are acceptable for all target analytes for the First Quarter 2013 soil vapor monitoring event.

Immediately after the initial calibration, an initial calibration verification was performed at the mid-point of the instrument calibration range by using a second-source standard to verify the accuracy of the initial calibration. The initial calibration results meet the acceptance criteria for all three analytical methods.

### **1.1.6 Continuing Calibration Verification (Reason Code C)**

Routinely during sample analysis, the stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the instrument-calibration range. The acceptability of the continuing calibration verifications (CCVs) is assessed by comparing the reported concentrations to the spiked concentrations. All CCV results meet the established control criteria for VOCs, APHs, and fixed gases analyses for the First Quarter 2013 soil vapor monitoring event.

### 1.1.7 Trip Blanks (Reason Codes K3)

Trip blanks were prepared by the laboratory and stored with the soil vapor samples collected for VOCs analysis. A total of seven trip blanks was submitted with the soil vapor samples for the First Quarter 2013 soil vapor monitoring event and were analyzed for VOCs only. Appendix B3 – Table 4 summarizes trip blank detections and associated sample results. Analyte detections in the trip blanks are summarized as follows:

Analytical Method	Trip Blank	Number of Contaminants	Contaminant Level Range (ppbv)	LOQ Range (ppbv)
EPA TO-15	VA8120-TB	8	1.2-5.8	1-3
	VA8121-TB	5	4.9-37	1-2
	VA8127-TB	13	1-48	1-5
	VA8128-TB	14	1.2-33	1-5

ppbv parts per billion by volume  
TB Trip Blank

Due to the trip blank detections, data qualification was applied to a total of 35 VOC results as not detected (U) at either the LOQ or reported value when sample results were less than or equal to 5 times (or 10 times for common laboratory contaminants such as acetone and methylene chloride) the levels reported in the associated trip blank. This blank qualification has no impact on the data usability.

As shown in Appendix B3 – Table 4, the majority of the VOCs in the samples was either not detected or their concentrations in the samples far exceeded the corresponding trip blank levels. Approximately 99 percent (%) of the VOCs results for the First Quarter 2013 soil vapor monitoring event were not affected by the trip blank detections.

### 1.1.8 Professional Judgment (Reason Codes P)

Samples VA2374, which was collected in a bottle Vac™ container, was submitted to the laboratory for APHs and VOCs analyses. Upon sample receipt at the laboratory, the sample vacuum reading was

recorded at “-1.5 inches of mercury.” This vacuum reading was outside the typical vacuum readings of negative 4 to negative 8 inches of mercury for vapor samples that were received in good condition. Based on the vacuum reading, it appears that the bottle Vac™ container leaked during sampling and/or shipping. Because the original sample VA2374 was not analyzed for VOCs and APHs, the affected sample was re-collected for VOCs and APHs, and the results from the re-sample as VA2374R are reported in this Quarterly Report.

Three trip blanks (VA8123-TB, VA8125-TB, VA8126-TB) were also received by the laboratory without adequate vacuum. The initial vacuum readings for the blanks were approximately -30 inches of mercury. Since the trip blank containers were not opened during sampling or shipping, the vacuum readings for the returned trip blanks were expected to be the same as the initial vacuum readings. However, the vacuum readings for these three trip blanks ranged from “-5.0 inches of mercury” to “ -18.5 inches of mercury.” Because the trip blank bottle Vac™ containers leaked during sampling and/or shipping, the trip blanks could be compromised with external contaminants and therefore, the blanks results may not be representative of true blanks. These trip blanks were consequently cancelled.

Except where noted, vacuum readings were acceptable for all other bottle Vac™ containers. To minimize potential bottle leakage problems for the future events, the laboratory will purchase and use new O-rings for bottle Vac™ containers.

### **1.1.9 Bottle Vac™ Certification**

When the sample bottle Vac™ containers were to be reused, the laboratory followed all cleaning procedures in accordance with laboratory standard operating procedures and industry standards to remove any VOC residue from prior use. Following the cleaning procedures, one bottle Vac™ container from a batch of 20 bottle Vac™ containers was to be tested for VOCs. A review of the VOC testing results

indicated that no target analytes were detected in any bottle Vac™ containers. Therefore, the bottle Vac™ containers were deemed suitable for the First Quarter 2013 soil vapor samples.

## 1.2 Field Duplicates

In accordance with the site-specific BFF Spill QAPjP requirements (USACE, 2011), field duplicate samples are to be collected at a minimum rate of 10% of the total number of soil vapor samples. Field duplicate sample results are evaluated by calculating the RPD between the sample and the duplicate sample. The RPD is calculated using the following equation:

$$RPD = \frac{|S-D|}{[(S+D)/2]} \times 100$$

where:

S = sample result  
D = duplicate result

Acceptable precision control criteria are established at less than or equal 50% for soil vapor samples. The RPD is calculated between the field sample and the field duplicate sample when both results are reported at or above the LOQ. Appendix B3 – Table 5 presents field duplicate sample results and precision results.

Twenty-nine duplicate pairs were collected for the First Quarter 2013 soil vapor monitoring event, thus achieving the 10% field duplicate requirement. For the First Quarter, all duplicate pairs from the 29 locations were analyzed for VOCs, APHs, and fixed gases.

Field duplicate precision outliers were observed for fixed gases, APHs, and VOCs, as summarized as follows:

- ASTM Method D2504 – The RPDs for five fixed gases results at four locations are between 55.3 and 126.6%.

- MA DEP Method – The RPDs for six APH results at six locations are between 54.2 and 119.1%.
- EPA Method TO-15 – The RPDs for 43 VOC results at 16 locations are between 51.4 and 165.7%.

The RPD results for fixed gases, APHs, and VOCs at all other locations are within the field duplicate precision control criteria. Of the 284 calculable field duplicate results, 54 field duplicate results were found outside the precision limit. Approximately 81% of the field duplicate results meet the precision goal. The laboratory re-analyzed a few duplicate pairs for both VOCs and APHs to confirm the field precision outliers. In accordance with EPA data review guidance, no data qualification was applied to any non-compliant field duplicate results.

### **1.3 Completeness**

The following sections present a discussion of contractual, analytical, and technical completeness for the First Quarter 2013 soil vapor monitoring event. Completeness calculations were performed only for the soil vapor samples that are used for project decisions. For informational purposes, completeness results are provided for field QC samples. Appendix B3 – Table 6 presents technical completeness results.

#### **1.3.1 Contractual Completeness**

Contractual completeness is a quantitative determination of the number of unqualified results compared to the total number of sample results expressed as a percentage, based on data qualified for QC outliers related to method performance. These include data qualified for calibration or preparation blank contamination, missed holding times, and non-compliant LCS recovery and/or precision. The contractual completeness goal is 95% for the project. Contractual completeness is calculated as follows:

$$\% \text{ Contractual Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the First Quarter 2013 soil vapor monitoring event, the contractual completeness was achieved as follows:

- ASTM Method D2504 – 100%
- EPA Method TO-15 – 99.4%
- MA DEP Method – 100%

As discussed in the previous sections, two VOC samples missed the 30-day analysis holding time by 5 days. The affected results were qualified as estimated and are considered usable. The 95% contractual completeness goal was met for all three methods.

### 1.3.2 Analytical Completeness

Analytical completeness is a quantitative measure of the number of unqualified data results compared to the total number of results expressed as a percentage, based on target analytes qualified for exceedances of QC requirements based on calibration, LCS, surrogate, method precision, and laboratory method blank contamination results. The analytical completeness goal is 90% for the project. Analytical completeness is calculated as follows:

$$\% \text{ Analytical Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the First Quarter 2013 soil vapor monitoring event, analytical completeness was achieved as follows:

- ASTM Method D2504 – 100%
- EPA Method TO-15 – 98.9%
- MA DEP Method – 100%

As a result of the holding-time exceedances, biased surrogate recoveries, non-compliant sample duplicate precisions, and trip blank detections for EPA Method TO-15, the affected data were qualified as estimated

or not detected. Estimated data are still usable to achieve project data quality objectives. The 90% analytical completeness goal was exceeded for all three methods.

### 1.3.3 Technical Completeness

Technical completeness is a quantitative measure of the data usability based on the number of rejected data compared to the total number of sample results. The technical completeness goal for each method is equal to or greater than 95%. The technical completeness calculation considers all data that are not rejected to be usable. The technical completeness is calculated as follows:

$$\% \text{ Technical Completeness} = \frac{\text{Number of Usable Results}}{\text{Total Number of Results}} \times 100$$

Despite the exceedances noted in the previous sections, the technical completeness was 100% for all three methods, thereby exceeding the 95% technical completeness requirement. Therefore, the project data quality objectives were achieved for the First Quarter 2013 soil vapor monitoring event.

## 1.4 Summary

The analytical data reported for the First Quarter 2013 soil vapor monitoring event have been reviewed for bias, precision, representativeness, comparability, and completeness. Data quality exceedances consist of missed holding times, biased surrogate and LCS recoveries and laboratory duplicate sample precisions, and low-level field blank detections. The affected data were qualified as estimated, or not detected. All of these data quality issues are considered minor, and the data usability is not affected.

In conclusion, the analytical data reported for the First Quarter 2013 soil vapor monitoring event exceeds the 95% technical completeness requirement for all three methods. All data are usable for their intended purposes.



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## REFERENCES

- ASTM. 2010. *Standard Test Method for Noncondensable Gases in C2 and Lighter Hydrocarbons by Gas Chromatography*, ASTM D2504-88 (2010).
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## TABLES

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Appendix B3 – Table 2: Data Qualification Flags and Reason Codes

Appendix B3 – Table 3: Qualified Data Summary

Appendix B3 – Table 4: Detected Trip Blank Results and Associated Sample Results

Appendix B3 – Table 5: Field Duplicate Summary

Appendix B3 – Table 6: Technical Completeness

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**Appendix B3 – Table 1. Soil Vapor Sample Delivery Group,  
January – March 2013**

Location	Sample Date	Sample Number	SDG	Type
CATOX-IN	3/20/2013	VA9113	1303915	VAPOR
CATOX-POSTC1	3/20/2013	VA9112	1303915	VAPOR
KAFB-106028-150	3/19/2013	VA2323	1303857	VAPOR
KAFB-106028-250	3/19/2013	VA2324	1303857	VAPOR
KAFB-106028-350	3/19/2013	VA2325	1303857	VAPOR
KAFB-106028-450	3/19/2013	VA2326	1303857	VAPOR
KAFB-106028-450	3/19/2013	VA2327	1303857	VAPOR
KAFB-106108-025	2/18/2013	VA2342	1302966	VAPOR
KAFB-106108-050	2/18/2013	VA2343	1302966	VAPOR
KAFB-106108-150	2/18/2013	VA2344	1302966	VAPOR
KAFB-106108-250	2/18/2013	VA2345	1302966	VAPOR
KAFB-106108-350	2/18/2013	VA2346	1302966	VAPOR
KAFB-106108-350	2/18/2013	VA2347	1302966	VAPOR
KAFB-106108-450	2/19/2013	VA2348	1302966	VAPOR
KAFB-106109-025	2/18/2013	VA2349	1302966	VAPOR
KAFB-106109-050	2/18/2013	VA2350	1302966	VAPOR
KAFB-106109-150	2/18/2013	VA2351	1302966	VAPOR
KAFB-106109-250	2/18/2013	VA2352	1302966	VAPOR
KAFB-106109-350	2/18/2013	VA2353	1302966	VAPOR
KAFB-106109-450	2/18/2013	VA2354	1302966	VAPOR
KAFB-106110-025	2/18/2013	VA2355	1302966	VAPOR
KAFB-106110-050	2/18/2013	VA2356	1302966	VAPOR
KAFB-106110-050	2/18/2013	VA2357	1302966	VAPOR
KAFB-106110-150	2/18/2013	VA2358	1302966	VAPOR
KAFB-106110-250	2/19/2013	VA2359	1302966	VAPOR
KAFB-106110-350	2/19/2013	VA2360	1302966	VAPOR
KAFB-106110-450	2/19/2013	VA2361	1302966	VAPOR
KAFB-106111-025	3/4/2013	VA2362	1303386	VAPOR
KAFB-106111-050	3/4/2013	VA2363	1303386	VAPOR
KAFB-106111-150	3/4/2013	VA2364	1303386	VAPOR
KAFB-106111-250	3/4/2013	VA2365	1303386	VAPOR
KAFB-106111-350	3/4/2013	VA2366	1303386	VAPOR
KAFB-106111-450	3/5/2013	VA2367	1303386	VAPOR
KAFB-106112-025	2/25/2013	VA2368	1303050	VAPOR
KAFB-106112-050	2/25/2013	VA2369	1303050	VAPOR
KAFB-106112-150	2/26/2013	VA2370	1303050	VAPOR
KAFB-106112-150	2/26/2013	VA2371	1303050	VAPOR
KAFB-106112-250	2/25/2013	VA2372	1303050	VAPOR
KAFB-106112-350	2/26/2013	VA2373	1303050	VAPOR
KAFB-106112-450	2/26/2013	VA2374	1303050	VAPOR
KAFB-106112-450	3/19/2013	VA2374R	1303915	VAPOR
KAFB-106113-020	3/5/2013	VA2375	1303386	VAPOR
KAFB-106113-050	3/5/2013	VA2376	1303386	VAPOR
KAFB-106113-150	3/5/2013	VA2377	1303386	VAPOR
KAFB-106113-250	3/5/2013	VA2378	1303386	VAPOR
KAFB-106113-350	3/5/2013	VA2379	1303425	VAPOR
KAFB-106113-450	3/5/2013	VA2380	1303425	VAPOR
KAFB-106114-025	3/21/2013	VA2381	1303915	VAPOR
KAFB-106114-050	3/21/2013	VA2382	1303915	VAPOR
KAFB-106114-150	3/21/2013	VA2383	1303915	VAPOR
KAFB-106114-150	3/21/2013	VA2384	1303915	VAPOR
KAFB-106114-250	3/21/2013	VA2385	1303915	VAPOR
KAFB-106114-350	3/21/2013	VA2386	1303915	VAPOR

**Appendix B3 – Table 1. Soil Vapor Sample Delivery Group,  
January – March 2013 (continued)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106114-450	3/21/2013	VA2387	1303915	VAPOR
KAFB-106115-025	3/6/2013	VA2388	1303425	VAPOR
KAFB-106115-050	3/6/2013	VA2389	1303425	VAPOR
KAFB-106115-150	3/6/2013	VA2390	1303425	VAPOR
KAFB-106115-250	3/6/2013	VA2391	1303425	VAPOR
KAFB-106115-350	3/7/2013	VA2392	1303425	VAPOR
KAFB-106115-450	3/7/2013	VA2393	1303425	VAPOR
KAFB-106116-025	3/12/2013	VA2394	1303561	VAPOR
KAFB-106116-050	3/12/2013	VA2395	1303561	VAPOR
KAFB-106116-050	3/12/2013	VA2396	1303561	VAPOR
KAFB-106116-150	3/12/2013	VA2397	1303561	VAPOR
KAFB-106116-250	3/12/2013	VA2398	1303561	VAPOR
KAFB-106116-350	3/18/2013	VA2399	1303857	VAPOR
KAFB-106116-450	3/18/2013	VA2400	1303857	VAPOR
KAFB-106117-025	3/18/2013	VA2401	1303857	VAPOR
KAFB-106117-050	3/18/2013	VA2402	1303857	VAPOR
KAFB-106117-150	3/18/2013	VA2403	1303857	VAPOR
KAFB-106117-250	3/18/2013	VA2404	1303857	VAPOR
KAFB-106117-350	3/18/2013	VA2405	1303857	VAPOR
KAFB-106117-350	3/18/2013	VA2406	1303857	VAPOR
KAFB-106117-450	3/18/2013	VA2407	1303857	VAPOR
KAFB-106118-025	2/18/2013	VA2408	1302966	VAPOR
KAFB-106118-050	2/18/2013	VA2409	1302966	VAPOR
KAFB-106118-160	2/18/2013	VA2410	1302966	VAPOR
KAFB-106118-265	2/18/2013	VA2411	1302966	VAPOR
KAFB-106118-350	2/18/2013	VA2412	1302966	VAPOR
KAFB-106118-450	2/18/2013	VA2413	1302966	VAPOR
KAFB-106119-025	2/26/2013	VA2414	1303050	VAPOR
KAFB-106119-050	2/26/2013	VA2415	1303050	VAPOR
KAFB-106119-150	2/26/2013	VA2416	1303050	VAPOR
KAFB-106119-250	2/26/2013	VA2417	1303050	VAPOR
KAFB-106119-350	2/26/2013	VA2418	1303162	VAPOR
KAFB-106119-350	2/26/2013	VA2419	1303162	VAPOR
KAFB-106119-450	2/26/2013	VA2420	1303162	VAPOR
KAFB-106120-025	3/5/2013	VA2421	1303386	VAPOR
KAFB-106120-050	3/5/2013	VA2422	1303386	VAPOR
KAFB-106120-150	3/5/2013	VA2423	1303386	VAPOR
KAFB-106120-250	3/5/2013	VA2424	1303386	VAPOR
KAFB-106120-350	3/5/2013	VA2425	1303386	VAPOR
KAFB-106120-450	3/5/2013	VA2426	1303386	VAPOR
KAFB-106121-025	3/5/2013	VA2427	1303425	VAPOR
KAFB-106121-050	3/6/2013	VA2428	1303425	VAPOR
KAFB-106121-145	3/6/2013	VA2429	1303425	VAPOR
KAFB-106121-145	3/6/2013	VA2430	1303425	VAPOR
KAFB-106121-250	3/6/2013	VA2431	1303425	VAPOR
KAFB-106121-350	3/6/2013	VA2432	1303425	VAPOR
KAFB-106121-440	3/6/2013	VA2433	1303425	VAPOR
KAFB-106122-025	3/6/2013	VA2434	1303425	VAPOR
KAFB-106122-050	3/6/2013	VA2435	1303425	VAPOR
KAFB-106122-150	3/6/2013	VA2436	1303425	VAPOR
KAFB-106122-250	3/6/2013	VA2437	1303425	VAPOR
KAFB-106122-350	3/6/2013	VA2438	1303425	VAPOR
KAFB-106122-350	3/6/2013	VA2439	1303425	VAPOR



**Appendix B3 – Table 1. Soil Vapor Sample Delivery Group,  
January – March 2013 (continued)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106122-450	3/7/2013	VA2440	1303425	VAPOR
KAFB-106123-025	3/6/2013	VA2441	1303425	VAPOR
KAFB-106123-050	3/6/2013	VA2442	1303425	VAPOR
KAFB-106123-150	3/6/2013	VA2443	1303425	VAPOR
KAFB-106123-250	3/6/2013	VA2444	1303425	VAPOR
KAFB-106123-350	3/6/2013	VA2445	1303425	VAPOR
KAFB-106123-450	3/6/2013	VA2446	1303425	VAPOR
KAFB-106124-025	3/7/2013	VA2447	1303561	VAPOR
KAFB-106124-050	3/7/2013	VA2448	1303561	VAPOR
KAFB-106124-050	3/7/2013	VA2449	1303561	VAPOR
KAFB-106124-150	3/12/2013	VA2450	1303561	VAPOR
KAFB-106124-250	3/12/2013	VA2451	1303561	VAPOR
KAFB-106124-350	3/12/2013	VA2452	1303561	VAPOR
KAFB-106124-450	3/12/2013	VA2453	1303561	VAPOR
KAFB-106125-025	3/7/2013	VA2454	1303425	VAPOR
KAFB-106125-050	3/7/2013	VA2455	1303425	VAPOR
KAFB-106125-150	3/7/2013	VA2456	1303425	VAPOR
KAFB-106125-250	3/7/2013	VA2457	1303425	VAPOR
KAFB-106125-350	3/7/2013	VA2458	1303561	VAPOR
KAFB-106125-450	3/7/2013	VA2459	1303561	VAPOR
KAFB-106126-025	2/14/2013	VA2460	1302966	VAPOR
KAFB-106126-050	2/14/2013	VA2461	1302966	VAPOR
KAFB-106126-050	2/14/2013	VA2462	1302966	VAPOR
KAFB-106126-150	2/14/2013	VA2463	1302966	VAPOR
KAFB-106126-250	2/14/2013	VA2464	1302966	VAPOR
KAFB-106126-350	2/14/2013	VA2465	1302966	VAPOR
KAFB-106126-450	2/14/2013	VA2466	1302966	VAPOR
KAFB-106127-025	2/14/2013	VA2467	1302966	VAPOR
KAFB-106127-050	2/14/2013	VA2468	1302966	VAPOR
KAFB-106127-150	2/14/2013	VA2469	1302966	VAPOR
KAFB-106127-250	2/14/2013	VA2470	1302966	VAPOR
KAFB-106127-350	2/14/2013	VA2471	1302966	VAPOR
KAFB-106127-450	2/14/2013	VA2472	1302966	VAPOR
KAFB-106128-025	3/18/2013	VA2473	1303857	VAPOR
KAFB-106128-050	3/18/2013	VA2474	1303857	VAPOR
KAFB-106128-150	3/18/2013	VA2475	1303857	VAPOR
KAFB-106128-250	3/18/2013	VA2476	1303857	VAPOR
KAFB-106128-250	3/18/2013	VA2477	1303857	VAPOR
KAFB-106128-350	3/19/2013	VA2478	1303857	VAPOR
KAFB-106128-450	3/19/2013	VA2479	1303857	VAPOR
KAFB-106129-025	3/11/2013	VA2480	1303561	VAPOR
KAFB-106129-050	3/11/2013	VA2481	1303561	VAPOR
KAFB-106129-150	3/11/2013	VA2482	1303561	VAPOR
KAFB-106129-250	3/11/2013	VA2483	1303561	VAPOR
KAFB-106129-350	3/11/2013	VA2484	1303561	VAPOR
KAFB-106129-450	3/11/2013	VA2485	1303561	VAPOR
KAFB-106130-025	2/25/2013	VA2486	1303050	VAPOR
KAFB-106130-050	2/25/2013	VA2487	1303050	VAPOR
KAFB-106130-050	2/25/2013	VA2488	1303050	VAPOR
KAFB-106130-150	2/25/2013	VA2489	1303050	VAPOR
KAFB-106130-250	2/25/2013	VA2490	1303050	VAPOR
KAFB-106130-350	2/25/2013	VA2491	1303050	VAPOR
KAFB-106130-450	2/25/2013	VA2492	1303050	VAPOR

**Appendix B3 – Table 1. Soil Vapor Sample Delivery Group,  
January – March 2013 (continued)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106131-025	3/4/2013	VA2493	1303386	VAPOR
KAFB-106131-055	3/4/2013	VA2494	1303386	VAPOR
KAFB-106131-150	3/4/2013	VA2495	1303386	VAPOR
KAFB-106131-245	3/4/2013	VA2496	1303386	VAPOR
KAFB-106131-350	3/4/2013	VA2497	1303386	VAPOR
KAFB-106131-450	3/4/2013	VA2498	1303386	VAPOR
KAFB-106132-025	2/20/2013	VA2499	1302A70	VAPOR
KAFB-106132-050	2/20/2013	VA2500	1302A70	VAPOR
KAFB-106132-050	2/20/2013	VA2501	1302A70	VAPOR
KAFB-106132-175	2/20/2013	VA2502	1302A70	VAPOR
KAFB-106132-250	2/20/2013	VA2503	1302A70	VAPOR
KAFB-106132-350	2/20/2013	VA2504	1302A70	VAPOR
KAFB-106132-450	2/20/2013	VA2505	1302A70	VAPOR
KAFB-106133-025	2/21/2013	VA2506	1302A70	VAPOR
KAFB-106133-050	2/21/2013	VA2507	1302A70	VAPOR
KAFB-106133-170	2/21/2013	VA2508	1302A70	VAPOR
KAFB-106133-250	2/21/2013	VA2509	1302A70	VAPOR
KAFB-106133-350	2/21/2013	VA2510	1302A70	VAPOR
KAFB-106133-450	2/21/2013	VA2511	1302A70	VAPOR
KAFB-106134-025	2/19/2013	VA2512	1302966	VAPOR
KAFB-106134-025	2/19/2013	VA2513	1302966	VAPOR
KAFB-106134-050	2/19/2013	VA2514	1302966	VAPOR
KAFB-106134-170	2/19/2013	VA2515	1302966	VAPOR
KAFB-106134-250	2/19/2013	VA2516	1302966	VAPOR
KAFB-106134-350	2/19/2013	VA2517	1302966	VAPOR
KAFB-106134-450	2/19/2013	VA2518	1302966	VAPOR
KAFB-106135-025	2/21/2013	VA2519	1302A70	VAPOR
KAFB-106135-050	2/21/2013	VA2520	1302A70	VAPOR
KAFB-106135-150	2/21/2013	VA2521	1302A70	VAPOR
KAFB-106135-250	2/21/2013	VA2522	1302A70	VAPOR
KAFB-106135-250	2/21/2013	VA2523	1302A70	VAPOR
KAFB-106135-350	2/21/2013	VA2524	1302A70	VAPOR
KAFB-106135-450	2/21/2013	VA2525	1302A70	VAPOR
KAFB-106136-025	2/27/2013	VA2526	1303162	VAPOR
KAFB-106136-050	2/27/2013	VA2527	1303162	VAPOR
KAFB-106136-150	2/27/2013	VA2528	1303162	VAPOR
KAFB-106136-250	2/27/2013	VA2529	1303162	VAPOR
KAFB-106136-350	2/27/2013	VA2530	1303162	VAPOR
KAFB-106136-350	2/27/2013	VA2531	1303162	VAPOR
KAFB-106136-450	2/27/2013	VA2532	1303162	VAPOR
KAFB-106137-025	3/21/2013	VA2533	1303915	VAPOR
KAFB-106137-050	3/21/2013	VA2534	1303915	VAPOR
KAFB-106137-150	3/21/2013	VA2535	1303915	VAPOR
KAFB-106137-250	3/20/2013	VA2536	1303915	VAPOR
KAFB-106137-350	3/21/2013	VA2537	1303915	VAPOR
KAFB-106137-450	3/20/2013	VA2538	1303915	VAPOR
KAFB-106138-025	2/20/2013	VA2539	1302A70	VAPOR
KAFB-106138-050	2/20/2013	VA2540	1302A70	VAPOR
KAFB-106138-050	2/20/2013	VA2541	1302A70	VAPOR
KAFB-106138-150	2/20/2013	VA2542	1302A70	VAPOR
KAFB-106138-250	2/20/2013	VA2543	1302A70	VAPOR
KAFB-106138-350	2/20/2013	VA2544	1302A70	VAPOR
KAFB-106138-450	2/20/2013	VA2545	1302A70	VAPOR

**Appendix B3 – Table 1. Soil Vapor Sample Delivery Group,  
January – March 2013 (continued)**

Location	Sample Date	Sample Number	SDG	Type
KAFB-106139-025	2/25/2013	VA2546	1303050	VAPOR
KAFB-106139-050	2/25/2013	VA2547	1303050	VAPOR
KAFB-106139-150	2/25/2013	VA2548	1303050	VAPOR
KAFB-106139-250	2/25/2013	VA2549	1303050	VAPOR
KAFB-106139-250	2/25/2013	VA2550	1303050	VAPOR
KAFB-106139-350	2/25/2013	VA2551	1303050	VAPOR
KAFB-106139-450	2/25/2013	VA2552	1303050	VAPOR
KAFB-106140-025	3/11/2013	VA2553	1303561	VAPOR
KAFB-106140-050	3/11/2013	VA2554	1303561	VAPOR
KAFB-106140-150	3/11/2013	VA2555	1303561	VAPOR
KAFB-106140-250	3/11/2013	VA2556	1303561	VAPOR
KAFB-106140-350	3/11/2013	VA2557	1303561	VAPOR
KAFB-106140-450	3/11/2013	VA2558	1303561	VAPOR
KAFB-106141-025	2/27/2013	VA2559	1303162	VAPOR
KAFB-106141-050	2/27/2013	VA2560	1303162	VAPOR
KAFB-106141-170	2/27/2013	VA2561	1303162	VAPOR
KAFB-106141-170	2/27/2013	VA2562	1303162	VAPOR
KAFB-106141-250	2/27/2013	VA2563	1303162	VAPOR
KAFB-106141-350	2/27/2013	VA2564	1303162	VAPOR
KAFB-106141-450	2/27/2013	VA2565	1303162	VAPOR
KAFB-106142-030	2/26/2013	VA2566	1303050	VAPOR
KAFB-106142-050	2/26/2013	VA2567	1303050	VAPOR
KAFB-106142-170	2/26/2013	VA2568	1303050	VAPOR
KAFB-106142-250	2/26/2013	VA2569	1303050	VAPOR
KAFB-106142-350	2/26/2013	VA2570	1303050	VAPOR
KAFB-106142-450	2/26/2013	VA2571	1303050	VAPOR
KAFB-106142-450	2/26/2013	VA2572	1303050	VAPOR
KAFB106160-IN	3/20/2013	VA9108	1303915	VAPOR
KAFB106161-IN	3/20/2013	VA9105	1303915	VAPOR
SVEW-01-260	3/19/2013	VA2328	1303857	VAPOR
SVEW-02-060	3/19/2013	VA2329	1303857	VAPOR
SVEW-03-160	3/20/2013	VA2330	1303915	VAPOR
SVEW-04-313	3/18/2013	VA2331	1303857	VAPOR
SVEW-05-460	3/18/2013	VA2332	1303857	VAPOR
SVEW-06-060	3/18/2013	VA2333	1303857	VAPOR
SVEW-07-160	3/18/2013	VA2334	1303857	VAPOR
SVEW-08-260	3/18/2013	VA2335	1303857	VAPOR
SVEW-09-460	3/18/2013	VA2336	1303857	VAPOR
SVEW-10-410	3/4/2013	VA2337	1303386	VAPOR
SVEW-10-410	3/4/2013	VA2338	1303386	VAPOR
SVEW-11-410	2/20/2013	VA2339	1302A70	VAPOR
SVEW-12-410	3/7/2013	VA2340	1303425	VAPOR
SVEW-13-410	3/5/2013	VA2341	1303386	VAPOR
SVMW-01-050	2/26/2013	VA2259	1303162	VAPOR
SVMW-01-100	2/27/2013	VA2260	1303162	VAPOR
SVMW-01-100	2/27/2013	VA2261	1303162	VAPOR
SVMW-01-250	2/26/2013	VA2262	1303162	VAPOR
SVMW-01-300	2/27/2013	VA2263	1303162	VAPOR
SVMW-02-050	3/4/2013	VA2264	1303386	VAPOR
SVMW-02-100	3/4/2013	VA2265	1303386	VAPOR
SVMW-02-150	3/4/2013	VA2266	1303386	VAPOR
SVMW-03-050	2/28/2013	VA2267	1303162	VAPOR
SVMW-03-100	2/28/2013	VA2268	1303162	VAPOR

**Appendix B3 – Table 1. Soil Vapor Sample Delivery Group,  
January – March 2013 (concluded)**

Location	Sample Date	Sample Number	SDG	Type
SVMW-03-250	3/4/2013	VA2269	1303386	VAPOR
SVMW-03-300	3/4/2013	VA2270	1303386	VAPOR
SVMW-04-050	2/19/2013	VA2271	1302966	VAPOR
SVMW-04-100	2/19/2013	VA2272	1302966	VAPOR
SVMW-04-100	2/19/2013	VA2273	1302966	VAPOR
SVMW-04-250	2/19/2013	VA2274	1302966	VAPOR
SVMW-04-300	2/19/2013	VA2275	1302A70	VAPOR
SVMW-05-050	2/27/2013	VA2276	1303162	VAPOR
SVMW-05-100	2/27/2013	VA2277	1303162	VAPOR
SVMW-05-230	2/28/2013	VA2278	1303162	VAPOR
SVMW-05-290	2/28/2013	VA2279	1303162	VAPOR
SVMW-05-290	3/19/2013	VA2279R	1303915	VAPOR
SVMW-06-050	2/25/2013	VA2280	1303050	VAPOR
SVMW-06-100	2/25/2013	VA2281	1303050	VAPOR
SVMW-06-252	2/25/2013	VA2282	1303050	VAPOR
SVMW-06-252	2/25/2013	VA2283	1303050	VAPOR
SVMW-06-302	2/25/2013	VA2284	1303050	VAPOR
SVMW-07-050	3/18/2013	VA2285	1303857	VAPOR
SVMW-07-100	3/18/2013	VA2286	1303857	VAPOR
SVMW-07-150	3/18/2013	VA2287	1303857	VAPOR
SVMW-08-050	2/28/2013	VA2288	1303162	VAPOR
SVMW-08-100	2/28/2013	VA2289	1303162	VAPOR
SVMW-08-250	2/28/2013	VA2290	1303162	VAPOR
SVMW-09-050	2/20/2013	VA2292	1302A70	VAPOR
SVMW-09-100	2/20/2013	VA2293	1302A70	VAPOR
SVMW-09-100	2/20/2013	VA2294	1302A70	VAPOR
SVMW-09-250	2/20/2013	VA2295	1302A70	VAPOR
SVMW-09-266	2/20/2013	VA2296	1302A70	VAPOR
SVMW-10-050	2/28/2013	VA2297	1303162	VAPOR
SVMW-10-100	2/28/2013	VA2298	1303162	VAPOR
SVMW-10-150	2/28/2013	VA2299	1303162	VAPOR
SVMW-10-250	2/28/2013	VA2300	1303162	VAPOR
SVMW-11-050	2/27/2013	VA2301	1303162	VAPOR
SVMW-11-100	2/27/2013	VA2302	1303162	VAPOR
SVMW-11-250	2/27/2013	VA2303	1303162	VAPOR
SVMW-11-250	2/27/2013	VA2304	1303162	VAPOR
SVMW-11-260	2/27/2013	VA2305	1303162	VAPOR
SVMW-12-150	3/4/2013	VA2306	1303386	VAPOR
SVMW-12-250	3/4/2013	VA2307	1303386	VAPOR
SVMW-12-350	3/4/2013	VA2308	1303386	VAPOR
SVMW-12-450	3/4/2013	VA2309	1303386	VAPOR
SVMW-13-150	2/20/2013	VA2310	1302A70	VAPOR
SVMW-13-250	2/20/2013	VA2311	1302A70	VAPOR
SVMW-13-350	2/20/2013	VA2312	1302A70	VAPOR
SVMW-13-450	2/20/2013	VA2313	1302A70	VAPOR
SVMW-14-150	3/7/2013	VA2314	1303425	VAPOR
SVMW-14-250	3/7/2013	VA2315	1303425	VAPOR
SVMW-14-250	3/7/2013	VA2316	1303425	VAPOR
SVMW-14-350	3/7/2013	VA2317	1303425	VAPOR
SVMW-14-450	3/7/2013	VA2318	1303425	VAPOR
SVMW-15-150	3/4/2013	VA2319	1303386	VAPOR
SVMW-15-250	3/4/2013	VA2320	1303386	VAPOR
SVMW-15-350	3/4/2013	VA2321	1303386	VAPOR
SVMW-15-450	3/5/2013	VA2322	1303386	VAPOR

## Appendix B3 – Table 2. Data Qualification Flags and Reason Codes

### *Data Qualifier Definitions for Organic Data Review*

Qualifier	Definition
	<b>No Qualifier</b> indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the reported limit of quantitation.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; associated numerical value is its approximate concentration with a high bias in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified," and the associated value represents its approximate concentration.
UJ	The analyte was not detected above the reported limit of quantitation. However, the reported limit of quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The analyte was analyzed for, but the presence <u>or</u> absence of the analyte has not been verified. Re-sampling and re-analysis may be necessary to confirm or deny the presence of the analyte. Results are rejected and data are <u>unusable</u> for any purposes.

### *Data Qualifier Definitions for Inorganic Data Review*

Qualifier	Definition
	<b>No Qualifier</b> indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the level of the reported value. The reported value is the instrument detection limit for waters and the method detection limit and soil for all the analytes except cyanide (CN) and mercury (Hg). For CN and Hg, the reported value is the contract-required detection limit.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; associated numerical value is its approximate concentration with a high bias in the sample.
"UJ" qualified	The analyte was analyzed for but was not detected above the reported value. The reported value may not accurately or precisely represent the sample reporting limit.
R	The analyte was analyzed for, but the presence <u>or</u> absence of the analyte has not been verified. Re-sampling and re-analysis may be necessary to confirm or deny the presence of the analyte. Results are rejected and data are <u>unusable</u> for any purposes.

## Appendix B3 – Table 2. Data Qualification Flags and Reason Codes (concluded)

### *Reason Codes for Data Review and Validation*

Reason Code	Description
A	Serial dilution outside criteria (Level IV).
B1	Method blank contaminants above reporting limit.
B2	Calibration blank contaminants above reporting limit.
B2, Bias Flag “-“	Calibration blank indicates negative interference, false negatives may be present.
C	Calibration outside control limits.
D	Sample results precision between primary and secondary columns outside control limit
D1	Sample duplicate RPD outside control limit.
D2	Matrix duplicate RPD outside control limit.
D3	Laboratory control sample duplicate RPD outside control limit.
E	The sample results exceed the linear calibration range of the instrument.
F	Hydrocarbon pattern does not match hydrocarbon pattern in the standard.
G1	Initial calibration relative standard deviation outside control limit.
G2	Initial continuing calibration RRF outside control limit.
G3	Continuing calibration RRF outside control limit.
H	Holding time exceeded.
I	Internal standard recovery outside control limit.
K1	Equipment rinsate contamination.
K2	Ambient blank contamination.
K3	Trip blank contamination.
L	LCS outside control limits.
M	MS outside control limits.
O	Interference check sample outside acceptance criteria.
P	Analyte qualified based on the professional judgment of the reviewer.
S	Surrogate recovery outside control limit.
T	Temperature outside acceptance criteria.
Tr	Value reported detected between the DL and LOQ.
W	Pesticide breakdown outside criteria (Level IV).
X	Raised reporting limit due to matrix interference or high analyte concentration.

**Appendix B3 - Table 3**  
**Qualified Data Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code D1 Method EPA TO15</b>										
VA2383	REG	3/21/2013	Acetone	1303915	3200	170	400	400	ppbv	J
VA2384	FD	3/21/2013	Acetone	1303915	1200	170	400	400	ppbv	J
VA2533	REG	3/21/2013	Acetone	1303915	1800	170	400	400	ppbv	J
VA2534	REG	3/21/2013	Acetone	1303915	440	17	40	40	ppbv	J
VA2536	REG	3/20/2013	Acetone	1303915	1200	170	400	400	ppbv	J
VA2537	REG	3/21/2013	Acetone	1303915	1400	170	400	400	ppbv	J
VA2538	REG	3/20/2013	Acetone	1303915	920	340	800	800	ppbv	J
VA9113	REG	3/20/2013	Acetone	1303915	2600	340	800	800	ppbv	J
<b>Reason Code D1K3 Method EPA TO15</b>										
VA2535	REG	3/21/2013	Acetone	1303915	220	17	40	40	ppbv	UJ
<b>Reason Code D1Tr Method EPA TO15</b>										
VA2272	REG	2/19/2013	Xylenes, Total	1302966	43000	31000	120000	40000	ppbv	J
VA2274	REG	2/19/2013	Xylenes, Total	1302966	15000	6300	24000	8000	ppbv	J
VA2342	REG	2/18/2013	Xylenes, Total	1302966	9.2	3.1	12	4	ppbv	J
VA2343	REG	2/18/2013	Xylenes, Total	1302966	9.5	3.1	12	4	ppbv	J
VA2349	REG	2/18/2013	Xylenes, Total	1302966	46	31	120	40	ppbv	J
VA2350	REG	2/18/2013	Xylenes, Total	1302966	47	31	120	40	ppbv	J
<b>Reason Code H Method EPA TO15</b>										
VA2468	REG	2/14/2013	1,1,1-Trichloroethane	1302966	ND	4.3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,1,2,2-Tetrachloroethane	1302966	ND	8.4	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,1,2-Trichloro-1,2,2-trifluoroethane	1302966	ND	4.3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,1,2-Trichloroethane	1302966	ND	8	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,1-Dichloroethane	1302966	ND	4.4	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,1-Dichloroethene	1302966	ND	3.9	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,2,4-Trichlorobenzene	1302966	ND	11	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,2,4-Trimethylbenzene	1302966	ND	9.8	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,2-Dibromoethane	1302966	ND	7.4	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,2-Dichlorobenzene	1302966	ND	8.3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,2-Dichloroethane	1302966	ND	7.8	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,2-Dichloropropane	1302966	ND	9	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,3,5-Trimethylbenzene	1302966	ND	9.6	40	40	ppbv	UJ

**Appendix B3 - Table 3**  
**Qualified Data Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code H</b>		<b>Method EPA TO15</b>								
VA2468	REG	2/14/2013	1,3-Butadiene	1302966	ND	6.1	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,3-Dichlorobenzene	1302966	ND	8.1	40	40	ppbv	UJ
VA2468	REG	2/14/2013	1,4-Dichlorobenzene	1302966	ND	7.8	40	40	ppbv	UJ
VA2468	REG	2/14/2013	2-Butanone	1302966	ND	11	40	40	ppbv	UJ
VA2468	REG	2/14/2013	2-Hexanone	1302966	ND	5.4	40	40	ppbv	UJ
VA2468	REG	2/14/2013	4-Methyl-2-pentanone	1302966	ND	6.3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Acetone	1302966	ND	17	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Benzene	1302966	ND	5	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Benzyl chloride	1302966	ND	6.2	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Bromodichloromethane	1302966	ND	6.2	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Bromoform	1302966	ND	7.9	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Bromomethane	1302966	ND	3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Carbon disulfide	1302966	ND	3.7	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Carbon tetrachloride	1302966	ND	4.6	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Chlorobenzene	1302966	ND	11	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Chlorodibromomethane	1302966	ND	6.6	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Chloroethane	1302966	ND	2.5	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Chloroform	1302966	170	5	40	40	ppbv	J-
VA2468	REG	2/14/2013	Chloromethane	1302966	ND	4.2	40	40	ppbv	UJ
VA2468	REG	2/14/2013	cis-1,2-Dichloroethene	1302966	ND	4.3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	cis-1,3-dichloropropene	1302966	ND	6.6	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Cyclohexane	1302966	380	27	80	40	ppbv	J-
VA2468	REG	2/14/2013	Dichlorodifluoromethane	1302966	ND	3.4	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Ethyl acetate	1302966	ND	6.3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Ethylbenzene	1302966	ND	29	80	40	ppbv	UJ
VA2468	REG	2/14/2013	Heptane	1302966	46	10	40	40	ppbv	J-
VA2468	REG	2/14/2013	Hexachlorobutadiene	1302966	ND	15	80	40	ppbv	UJ
VA2468	REG	2/14/2013	m,p-Xylene	1302966	ND	21	80	40	ppbv	UJ
VA2468	REG	2/14/2013	Methylene chloride	1302966	ND	83	200	40	ppbv	UJ
VA2468	REG	2/14/2013	Naphthalene	1302966	ND	9.9	40	40	ppbv	UJ



**Appendix B3 - Table 3**  
**Qualified Data Summary**  
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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code H</b>	<b>Method EPA TO15</b>									
VA2468	REG	2/14/2013	n-Hexane	1302966	190	28	80	40	ppbv	J-
VA2468	REG	2/14/2013	o-Xylene	1302966	ND	10	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Propylene	1302966	ND	3	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Styrene	1302966	ND	11	40	40	ppbv	UJ
VA2468	REG	2/14/2013	tert-Butyl Methyl Ether	1302966	ND	9.1	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Tetrachloroethene	1302966	ND	5.9	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Tetrahydrofuran	1302966	ND	8	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Toluene	1302966	90	6.3	40	40	ppbv	J-
VA2468	REG	2/14/2013	trans-1,2-Dichloroethene	1302966	ND	4.7	40	40	ppbv	UJ
VA2468	REG	2/14/2013	trans-1,3-dichloropropene	1302966	ND	6.8	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Trichloroethene	1302966	ND	4.8	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Trichlorofluoromethane	1302966	ND	5.9	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Vinyl acetate	1302966	ND	11	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Vinyl chloride	1302966	ND	2.9	40	40	ppbv	UJ
VA2468	REG	2/14/2013	Xylenes, Total	1302966	ND	31	120	40	ppbv	UJ
VA2472	REG	2/14/2013	1,1,1-Trichloroethane	1302966	ND	86	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,1,2,2-Tetrachloroethane	1302966	ND	170	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,1,2-Trichloro-1,2,2-trifluoroethane	1302966	ND	86	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,1,2-Trichloroethane	1302966	ND	160	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,1-Dichloroethane	1302966	ND	89	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,1-Dichloroethene	1302966	ND	78	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,2,4-Trichlorobenzene	1302966	ND	220	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,2,4-Trimethylbenzene	1302966	ND	200	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,2-Dibromoethane	1302966	ND	150	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,2-Dichlorobenzene	1302966	ND	170	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,2-Dichloroethane	1302966	ND	160	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,2-Dichloropropane	1302966	ND	180	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,3,5-Trimethylbenzene	1302966	ND	190	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,3-Butadiene	1302966	ND	120	800	800	ppbv	UJ
VA2472	REG	2/14/2013	1,3-Dichlorobenzene	1302966	ND	160	800	800	ppbv	UJ

**Appendix B3 - Table 3**  
**Qualified Data Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code H</b>	<b>Method EPA TO15</b>									
VA2472	REG	2/14/2013	1,4-Dichlorobenzene	1302966	ND	160	800	800	ppbv	UJ
VA2472	REG	2/14/2013	2-Butanone	1302966	ND	230	800	800	ppbv	UJ
VA2472	REG	2/14/2013	2-Hexanone	1302966	ND	110	800	800	ppbv	UJ
VA2472	REG	2/14/2013	4-Methyl-2-pentanone	1302966	ND	130	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Acetone	1302966	ND	340	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Benzene	1302966	ND	100	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Benzyl chloride	1302966	ND	120	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Bromodichloromethane	1302966	ND	120	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Bromoform	1302966	ND	160	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Bromomethane	1302966	ND	60	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Carbon disulfide	1302966	ND	74	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Carbon tetrachloride	1302966	ND	91	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Chlorobenzene	1302966	ND	220	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Chlorodibromomethane	1302966	ND	130	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Chloroethane	1302966	ND	50	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Chloroform	1302966	ND	100	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Chloromethane	1302966	ND	83	800	800	ppbv	UJ
VA2472	REG	2/14/2013	cis-1,2-Dichloroethene	1302966	ND	86	800	800	ppbv	UJ
VA2472	REG	2/14/2013	cis-1,3-dichloropropene	1302966	ND	130	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Cyclohexane	1302966	10000	550	1600	800	ppbv	J-
VA2472	REG	2/14/2013	Dichlorodifluoromethane	1302966	ND	69	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Ethyl acetate	1302966	ND	130	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Ethylbenzene	1302966	ND	590	1600	800	ppbv	UJ
VA2472	REG	2/14/2013	Heptane	1302966	1300	200	800	800	ppbv	J-
VA2472	REG	2/14/2013	Hexachlorobutadiene	1302966	ND	300	1600	800	ppbv	UJ
VA2472	REG	2/14/2013	m,p-Xylene	1302966	ND	420	1600	800	ppbv	UJ
VA2472	REG	2/14/2013	Methylene chloride	1302966	ND	1700	4000	800	ppbv	UJ
VA2472	REG	2/14/2013	Naphthalene	1302966	ND	200	800	800	ppbv	UJ
VA2472	REG	2/14/2013	n-Hexane	1302966	9600	550	1600	800	ppbv	J-
VA2472	REG	2/14/2013	o-Xylene	1302966	ND	210	800	800	ppbv	UJ

**Appendix B3 - Table 3**  
**Qualified Data Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code H</b>		<b>Method EPA TO15</b>								
VA2472	REG	2/14/2013	Propylene	1302966	ND	60	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Styrene	1302966	ND	210	800	800	ppbv	UJ
VA2472	REG	2/14/2013	tert-Butyl Methyl Ether	1302966	ND	180	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Tetrachloroethene	1302966	ND	120	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Tetrahydrofuran	1302966	ND	160	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Toluene	1302966	1300	130	800	800	ppbv	J-
VA2472	REG	2/14/2013	trans-1,2-Dichloroethene	1302966	ND	94	800	800	ppbv	UJ
VA2472	REG	2/14/2013	trans-1,3-dichloropropene	1302966	ND	140	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Trichloroethene	1302966	ND	95	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Trichlorofluoromethane	1302966	ND	120	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Vinyl acetate	1302966	ND	210	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Vinyl chloride	1302966	ND	58	800	800	ppbv	UJ
VA2472	REG	2/14/2013	Xylenes, Total	1302966	ND	630	2400	800	ppbv	UJ
<b>Reason Code K3</b>		<b>Method EPA TO15</b>								
VA2330	REG	3/20/2013	Acetone	1303915	100	17	40	40	ppbv	U
VA2342	REG	2/18/2013	Acetone	1302966	14	1.7	4	4	ppbv	U
VA2343	REG	2/18/2013	Acetone	1302966	9	1.7	4	4	ppbv	U
VA2374R	REG	3/19/2013	Acetone	1303915	66	17	40	40	ppbv	U
VA2463	REG	2/14/2013	Acetone	1302966	50	17	40	40	ppbv	U
VA2464	REG	2/14/2013	Acetone	1302966	52	17	40	40	ppbv	U
VA2467	REG	2/14/2013	Acetone	1302966	22	3.4	8	8	ppbv	U
VA2467	REG	2/14/2013	n-Hexane	1302966	ND	5.5	16	8	ppbv	U
VA2469	REG	2/14/2013	Acetone	1302966	23	3.4	8	8	ppbv	U
VA2470	REG	2/14/2013	Acetone	1302966	18	3.4	8	8	ppbv	U
VA2474	REG	3/18/2013	Acetone	1303857	180	17	40	40	ppbv	U
VA2475	REG	3/18/2013	Acetone	1303857	160	17	40	40	ppbv	U
VA2499	REG	2/20/2013	Cyclohexane	1302A70	130	27	80	40	ppbv	U
VA2499	REG	2/20/2013	Heptane	1302A70	42	10	40	40	ppbv	U
VA2500	REG	2/20/2013	Benzene	1302A70	62	5	40	40	ppbv	U
VA2500	REG	2/20/2013	Cyclohexane	1302A70	ND	27	80	40	ppbv	U
VA2501	FD	2/20/2013	Cyclohexane	1302A70	100	27	80	40	ppbv	U

**Appendix B3 - Table 3**  
**Qualified Data Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code K3</b>		<b>Method EPA TO15</b>								
VA2502	REG	2/20/2013	Benzene	1302A70	61	5	40	40	ppbv	U
VA2502	REG	2/20/2013	Cyclohexane	1302A70	ND	27	80	40	ppbv	U
VA2503	REG	2/20/2013	Benzene	1302A70	66	5	40	40	ppbv	U
VA2503	REG	2/20/2013	Cyclohexane	1302A70	ND	27	80	40	ppbv	U
VA2506	REG	2/21/2013	Cyclohexane	1302A70	180	27	80	40	ppbv	U
VA2506	REG	2/21/2013	n-Hexane	1302A70	110	28	80	40	ppbv	U
VA2507	REG	2/21/2013	Cyclohexane	1302A70	170	27	80	40	ppbv	U
VA2507	REG	2/21/2013	n-Hexane	1302A70	ND	28	80	40	ppbv	U
VA2508	REG	2/21/2013	Benzene	1302A70	35	1	8	8	ppbv	U
VA2508	REG	2/21/2013	Cyclohexane	1302A70	56	5.5	16	8	ppbv	U
VA2508	REG	2/21/2013	Heptane	1302A70	31	2	8	8	ppbv	U
VA2508	REG	2/21/2013	n-Hexane	1302A70	37	5.5	16	8	ppbv	U
VA2509	REG	2/21/2013	Benzene	1302A70	30	1	8	8	ppbv	U
VA2509	REG	2/21/2013	Cyclohexane	1302A70	50	5.5	16	8	ppbv	U
VA2509	REG	2/21/2013	Heptane	1302A70	27	2	8	8	ppbv	U
VA2509	REG	2/21/2013	n-Hexane	1302A70	25	5.5	16	8	ppbv	U
VA2517	REG	2/19/2013	Acetone	1302966	50	17	40	40	ppbv	U
<b>Reason Code S</b>		<b>Method EPA TO15</b>								
VA2307	REG	3/4/2013	1,1,2-Trichloro-1,2,2-trifluoroethane	1303386	65	4.3	40	40	ppbv	J+
VA2307	REG	3/4/2013	1,2,4-Trimethylbenzene	1303386	960	9.8	40	40	ppbv	J+
VA2307	REG	3/4/2013	1,3,5-Trimethylbenzene	1303386	450	9.6	40	40	ppbv	J+
VA2307	REG	3/4/2013	2-Butanone	1303386	350	11	40	40	ppbv	J+
VA2307	REG	3/4/2013	4-Methyl-2-pentanone	1303386	76	6.3	40	40	ppbv	J+
VA2307	REG	3/4/2013	Acetone	1303386	440	17	40	40	ppbv	J+
VA2307	REG	3/4/2013	Benzene	1303386	11000	100	800	800	ppbv	J+
VA2307	REG	3/4/2013	Cyclohexane	1303386	23000	550	1600	800	ppbv	J+
VA2307	REG	3/4/2013	Ethylbenzene	1303386	3600	590	1600	800	ppbv	J+
VA2307	REG	3/4/2013	Heptane	1303386	27000	200	800	800	ppbv	J+
VA2307	REG	3/4/2013	m,p-Xylene	1303386	9400	420	1600	800	ppbv	J+
VA2307	REG	3/4/2013	n-Hexane	1303386	11000	550	1600	800	ppbv	J+
VA2307	REG	3/4/2013	o-Xylene	1303386	2500	210	800	800	ppbv	J+

**Appendix B3 - Table 3**  
**Qualified Data Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
<b>Environmental Samples</b>										
<b>Reason Code S Method EPA TO15</b>										
VA2307	REG	3/4/2013	Toluene	1303386	57000	1300	8000	8000	ppbv	J+
VA2307	REG	3/4/2013	Xylenes, Total	1303386	12000	630	2400	800	ppbv	J+
VA2309	REG	3/4/2013	1,1,2-Trichloro-1,2,2-trifluoroethane	1303386	41	4.3	40	40	ppbv	J+
VA2309	REG	3/4/2013	1,2,4-Trimethylbenzene	1303386	860	9.8	40	40	ppbv	J+
VA2309	REG	3/4/2013	1,3,5-Trimethylbenzene	1303386	380	9.6	40	40	ppbv	J+
VA2309	REG	3/4/2013	2-Butanone	1303386	250	11	40	40	ppbv	J+
VA2309	REG	3/4/2013	Acetone	1303386	310	17	40	40	ppbv	J+
VA2309	REG	3/4/2013	Benzene	1303386	2600	100	800	800	ppbv	J+
VA2309	REG	3/4/2013	Cyclohexane	1303386	8300	550	1600	800	ppbv	J+
VA2309	REG	3/4/2013	Ethylbenzene	1303386	1800	590	1600	800	ppbv	J+
VA2309	REG	3/4/2013	Heptane	1303386	10000	200	800	800	ppbv	J+
VA2309	REG	3/4/2013	m,p-Xylene	1303386	4900	420	1600	800	ppbv	J+
VA2309	REG	3/4/2013	n-Hexane	1303386	3100	550	1600	800	ppbv	J+
VA2309	REG	3/4/2013	o-Xylene	1303386	1400	210	800	800	ppbv	J+
VA2309	REG	3/4/2013	Toluene	1303386	19000	130	800	800	ppbv	J+
VA2309	REG	3/4/2013	Xylenes, Total	1303386	6400	630	2400	800	ppbv	J+
<b>Field QC Samples</b>										
<b>Reason Code D1 Method EPA TO15</b>										
VA8128-TB	TB	3/20/2013	Acetone	1303915	29	0.43	1	1	ppbv	J
<b>Reason Code D1Tr Method EPA TO15</b>										
VA8120-TB	TB	2/14/2013	Xylenes, Total	1302966	1.5	0.78	3	1	ppbv	J

Notes: See Appendix B3 - Table 2 for definitions of Qualifiers and Reason Codes.

SDG Sample Delivery Group  
DL Detection Limit  
LOQ Limit of Quantitation  
REG Normal sample sent to the lab  
FD Field Duplicate sample  
TB Trip blank  
ND Not Detected at the LOQ  
ppbv parts per billion volume

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**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Acetone</b>	<b>5.8</b>	<b>0.43</b>	<b>1</b>	<b>ppbv</b>		
VA2460	REG	2/14/2013	EPA TO15	Acetone	400	86	200	ppbv		
VA2461	REG	2/14/2013	EPA TO15	Acetone	660	86	200	ppbv		
VA2462	FD	2/14/2013	EPA TO15	Acetone	1400	86	200	ppbv		
VA2463	REG	2/14/2013	EPA TO15	Acetone	50	17	40	ppbv	U	K3
VA2464	REG	2/14/2013	EPA TO15	Acetone	52	17	40	ppbv	U	K3
VA2465	REG	2/14/2013	EPA TO15	Acetone	1100	170	400	ppbv		
VA2466	REG	2/14/2013	EPA TO15	Acetone	1600	340	800	ppbv		
VA2467	REG	2/14/2013	EPA TO15	Acetone	22	3.4	8	ppbv	U	K3
VA2468	REG	2/14/2013	EPA TO15	Acetone	ND	17	40	ppbv	UJ	H
VA2469	REG	2/14/2013	EPA TO15	Acetone	23	3.4	8	ppbv	U	K3
VA2470	REG	2/14/2013	EPA TO15	Acetone	18	3.4	8	ppbv	U	K3
VA2471	REG	2/14/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2472	REG	2/14/2013	EPA TO15	Acetone	ND	340	800	ppbv	UJ	H
VA2342	REG	2/18/2013	EPA TO15	Acetone	14	1.7	4	ppbv	U	K3
VA2343	REG	2/18/2013	EPA TO15	Acetone	9	1.7	4	ppbv	U	K3
VA2344	REG	2/18/2013	EPA TO15	Acetone	8700	340	800	ppbv		
VA2345	REG	2/18/2013	EPA TO15	Acetone	3300	340	800	ppbv		
VA2346	REG	2/18/2013	EPA TO15	Acetone	3100	340	800	ppbv		
VA2347	FD	2/18/2013	EPA TO15	Acetone	1700	340	800	ppbv		
VA2349	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2350	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2351	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2352	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2353	REG	2/18/2013	EPA TO15	Acetone	1000	86	200	ppbv		
VA2354	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2355	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2356	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2357	FD	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2358	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2408	REG	2/18/2013	EPA TO15	Acetone	1100	86	200	ppbv		
VA2409	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2410	REG	2/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2411	REG	2/18/2013	EPA TO15	Acetone	1800	340	800	ppbv		
VA2412	REG	2/18/2013	EPA TO15	Acetone	1800	170	400	ppbv		
VA2413	REG	2/18/2013	EPA TO15	Acetone	1200	170	400	ppbv		
VA2271	REG	2/19/2013	EPA TO15	Acetone	3600	340	800	ppbv		
VA2272	REG	2/19/2013	EPA TO15	Acetone	73000	17000	40000	ppbv		
VA2273	FD	2/19/2013	EPA TO15	Acetone	89000	17000	40000	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Acetone</b>	<b>5.8</b>	<b>0.43</b>	<b>1</b>	<b>ppbv</b>		
VA2274	REG	2/19/2013	EPA TO15	Acetone	33000	3400	8000	ppbv		
VA2348	REG	2/19/2013	EPA TO15	Acetone	1300	170	400	ppbv		
VA2359	REG	2/19/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2360	REG	2/19/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2361	REG	2/19/2013	EPA TO15	Acetone	4800	340	800	ppbv		
VA2512	REG	2/19/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2513	FD	2/19/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2514	REG	2/19/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2515	REG	2/19/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2516	REG	2/19/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2517	REG	2/19/2013	EPA TO15	Acetone	50	17	40	ppbv	U	K3
VA2518	REG	2/19/2013	EPA TO15	Acetone	910	340	800	ppbv		
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Cyclohexane</b>	<b>1.5</b>	<b>0.68</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2460	REG	2/14/2013	EPA TO15	Cyclohexane	510	140	400	ppbv		
VA2461	REG	2/14/2013	EPA TO15	Cyclohexane	910	140	400	ppbv		
VA2462	FD	2/14/2013	EPA TO15	Cyclohexane	850	140	400	ppbv		
VA2463	REG	2/14/2013	EPA TO15	Cyclohexane	280	27	80	ppbv		
VA2464	REG	2/14/2013	EPA TO15	Cyclohexane	180	27	80	ppbv		
VA2465	REG	2/14/2013	EPA TO15	Cyclohexane	860	270	800	ppbv		
VA2466	REG	2/14/2013	EPA TO15	Cyclohexane	3800	550	1600	ppbv		
VA2467	REG	2/14/2013	EPA TO15	Cyclohexane	56	5.5	16	ppbv		
VA2468	REG	2/14/2013	EPA TO15	Cyclohexane	380	27	80	ppbv	J-	H
VA2469	REG	2/14/2013	EPA TO15	Cyclohexane	69	5.5	16	ppbv		
VA2470	REG	2/14/2013	EPA TO15	Cyclohexane	100	5.5	16	ppbv		
VA2471	REG	2/14/2013	EPA TO15	Cyclohexane	190	27	80	ppbv		
VA2472	REG	2/14/2013	EPA TO15	Cyclohexane	10000	550	1600	ppbv	J-	H
VA2342	REG	2/18/2013	EPA TO15	Cyclohexane	64	2.7	8	ppbv		
VA2343	REG	2/18/2013	EPA TO15	Cyclohexane	77	2.7	8	ppbv		
VA2344	REG	2/18/2013	EPA TO15	Cyclohexane	7400	550	1600	ppbv		
VA2345	REG	2/18/2013	EPA TO15	Cyclohexane	3900	550	1600	ppbv		
VA2346	REG	2/18/2013	EPA TO15	Cyclohexane	5700	550	1600	ppbv		
VA2347	FD	2/18/2013	EPA TO15	Cyclohexane	4300	550	1600	ppbv		
VA2349	REG	2/18/2013	EPA TO15	Cyclohexane	160	27	80	ppbv		
VA2350	REG	2/18/2013	EPA TO15	Cyclohexane	150	27	80	ppbv		
VA2351	REG	2/18/2013	EPA TO15	Cyclohexane	160	27	80	ppbv		
VA2352	REG	2/18/2013	EPA TO15	Cyclohexane	200	27	80	ppbv		
VA2353	REG	2/18/2013	EPA TO15	Cyclohexane	920	140	400	ppbv		



**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Cyclohexane</b>	<b>1.5</b>	<b>0.68</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2354	REG	2/18/2013	EPA TO15	Cyclohexane	800	27	80	ppbv		
VA2355	REG	2/18/2013	EPA TO15	Cyclohexane	250	27	80	ppbv		
VA2356	REG	2/18/2013	EPA TO15	Cyclohexane	270	27	80	ppbv		
VA2357	FD	2/18/2013	EPA TO15	Cyclohexane	460	27	80	ppbv		
VA2358	REG	2/18/2013	EPA TO15	Cyclohexane	170	27	80	ppbv		
VA2408	REG	2/18/2013	EPA TO15	Cyclohexane	360	140	400	ppbv	J	Tr
VA2409	REG	2/18/2013	EPA TO15	Cyclohexane	270	27	80	ppbv		
VA2410	REG	2/18/2013	EPA TO15	Cyclohexane	230	27	80	ppbv		
VA2411	REG	2/18/2013	EPA TO15	Cyclohexane	9800	550	1600	ppbv		
VA2412	REG	2/18/2013	EPA TO15	Cyclohexane	740	270	800	ppbv	J	Tr
VA2413	REG	2/18/2013	EPA TO15	Cyclohexane	590	270	800	ppbv	J	Tr
VA2271	REG	2/19/2013	EPA TO15	Cyclohexane	14000	550	1600	ppbv		
VA2272	REG	2/19/2013	EPA TO15	Cyclohexane	1600000	27000	80000	ppbv		
VA2273	FD	2/19/2013	EPA TO15	Cyclohexane	1600000	27000	80000	ppbv		
VA2274	REG	2/19/2013	EPA TO15	Cyclohexane	730000	14000	40000	ppbv		
VA2348	REG	2/19/2013	EPA TO15	Cyclohexane	1800	270	800	ppbv		
VA2359	REG	2/19/2013	EPA TO15	Cyclohexane	350	27	80	ppbv		
VA2360	REG	2/19/2013	EPA TO15	Cyclohexane	680	27	80	ppbv		
VA2361	REG	2/19/2013	EPA TO15	Cyclohexane	22000	550	1600	ppbv		
VA2512	REG	2/19/2013	EPA TO15	Cyclohexane	74	27	80	ppbv	J	Tr
VA2513	FD	2/19/2013	EPA TO15	Cyclohexane	81	27	80	ppbv		
VA2514	REG	2/19/2013	EPA TO15	Cyclohexane	67	27	80	ppbv	J	Tr
VA2515	REG	2/19/2013	EPA TO15	Cyclohexane	69	27	80	ppbv	J	Tr
VA2516	REG	2/19/2013	EPA TO15	Cyclohexane	100	27	80	ppbv		
VA2517	REG	2/19/2013	EPA TO15	Cyclohexane	280	27	80	ppbv		
VA2518	REG	2/19/2013	EPA TO15	Cyclohexane	3600	550	1600	ppbv		
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Heptane</b>	<b>1.7</b>	<b>0.25</b>	<b>1</b>	<b>ppbv</b>		
VA2460	REG	2/14/2013	EPA TO15	Heptane	ND	50	200	ppbv		
VA2461	REG	2/14/2013	EPA TO15	Heptane	280	50	200	ppbv		
VA2462	FD	2/14/2013	EPA TO15	Heptane	270	50	200	ppbv		
VA2463	REG	2/14/2013	EPA TO15	Heptane	110	10	40	ppbv		
VA2464	REG	2/14/2013	EPA TO15	Heptane	82	10	40	ppbv		
VA2465	REG	2/14/2013	EPA TO15	Heptane	ND	100	400	ppbv		
VA2466	REG	2/14/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2467	REG	2/14/2013	EPA TO15	Heptane	32	2	8	ppbv		
VA2468	REG	2/14/2013	EPA TO15	Heptane	46	10	40	ppbv	J-	H
VA2469	REG	2/14/2013	EPA TO15	Heptane	32	2	8	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Heptane</b>	<b>1.7</b>	<b>0.25</b>	<b>1</b>	<b>ppbv</b>		
VA2470	REG	2/14/2013	EPA TO15	Heptane	44	2	8	ppbv		
VA2471	REG	2/14/2013	EPA TO15	Heptane	62	10	40	ppbv		
VA2472	REG	2/14/2013	EPA TO15	Heptane	1300	200	800	ppbv	J-	H
VA2342	REG	2/18/2013	EPA TO15	Heptane	21	1	4	ppbv		
VA2343	REG	2/18/2013	EPA TO15	Heptane	25	1	4	ppbv		
VA2344	REG	2/18/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2345	REG	2/18/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2346	REG	2/18/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2347	FD	2/18/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2349	REG	2/18/2013	EPA TO15	Heptane	42	10	40	ppbv		
VA2350	REG	2/18/2013	EPA TO15	Heptane	42	10	40	ppbv		
VA2351	REG	2/18/2013	EPA TO15	Heptane	44	10	40	ppbv		
VA2352	REG	2/18/2013	EPA TO15	Heptane	56	10	40	ppbv		
VA2353	REG	2/18/2013	EPA TO15	Heptane	ND	50	200	ppbv		
VA2354	REG	2/18/2013	EPA TO15	Heptane	99	10	40	ppbv		
VA2355	REG	2/18/2013	EPA TO15	Heptane	60	10	40	ppbv		
VA2356	REG	2/18/2013	EPA TO15	Heptane	60	10	40	ppbv		
VA2357	FD	2/18/2013	EPA TO15	Heptane	130	10	40	ppbv		
VA2358	REG	2/18/2013	EPA TO15	Heptane	42	10	40	ppbv		
VA2408	REG	2/18/2013	EPA TO15	Heptane	ND	50	200	ppbv		
VA2409	REG	2/18/2013	EPA TO15	Heptane	70	10	40	ppbv		
VA2410	REG	2/18/2013	EPA TO15	Heptane	61	10	40	ppbv		
VA2411	REG	2/18/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2412	REG	2/18/2013	EPA TO15	Heptane	ND	100	400	ppbv		
VA2413	REG	2/18/2013	EPA TO15	Heptane	ND	100	400	ppbv		
VA2271	REG	2/19/2013	EPA TO15	Heptane	3200	200	800	ppbv		
VA2272	REG	2/19/2013	EPA TO15	Heptane	850000	10000	40000	ppbv		
VA2273	FD	2/19/2013	EPA TO15	Heptane	860000	10000	40000	ppbv		
VA2274	REG	2/19/2013	EPA TO15	Heptane	870000	5000	20000	ppbv		
VA2348	REG	2/19/2013	EPA TO15	Heptane	ND	100	400	ppbv		
VA2359	REG	2/19/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2360	REG	2/19/2013	EPA TO15	Heptane	59	10	40	ppbv		
VA2361	REG	2/19/2013	EPA TO15	Heptane	7700	200	800	ppbv		
VA2512	REG	2/19/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2513	FD	2/19/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2514	REG	2/19/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2515	REG	2/19/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2516	REG	2/19/2013	EPA TO15	Heptane	ND	10	40	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Heptane</b>	<b>1.7</b>	<b>0.25</b>	<b>1</b>	<b>ppbv</b>		
VA2517	REG	2/19/2013	EPA TO15	Heptane	49	10	40	ppbv		
VA2518	REG	2/19/2013	EPA TO15	Heptane	850	200	800	ppbv		
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>m,p-Xylene</b>	<b>1.5</b>	<b>0.52</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2460	REG	2/14/2013	EPA TO15	m,p-Xylene	ND	100	400	ppbv		
VA2461	REG	2/14/2013	EPA TO15	m,p-Xylene	ND	100	400	ppbv		
VA2462	FD	2/14/2013	EPA TO15	m,p-Xylene	ND	100	400	ppbv		
VA2463	REG	2/14/2013	EPA TO15	m,p-Xylene	56	21	80	ppbv	J	Tr
VA2464	REG	2/14/2013	EPA TO15	m,p-Xylene	53	21	80	ppbv	J	Tr
VA2465	REG	2/14/2013	EPA TO15	m,p-Xylene	ND	210	800	ppbv		
VA2466	REG	2/14/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2467	REG	2/14/2013	EPA TO15	m,p-Xylene	16	4.2	16	ppbv		
VA2468	REG	2/14/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv	UJ	H
VA2469	REG	2/14/2013	EPA TO15	m,p-Xylene	17	4.2	16	ppbv		
VA2470	REG	2/14/2013	EPA TO15	m,p-Xylene	17	4.2	16	ppbv		
VA2471	REG	2/14/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv		
VA2472	REG	2/14/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv	UJ	H
VA2342	REG	2/18/2013	EPA TO15	m,p-Xylene	9.2	2.1	8	ppbv		
VA2343	REG	2/18/2013	EPA TO15	m,p-Xylene	9.5	2.1	8	ppbv		
VA2344	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2345	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2346	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2347	FD	2/18/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2349	REG	2/18/2013	EPA TO15	m,p-Xylene	46	21	80	ppbv	J	Tr
VA2350	REG	2/18/2013	EPA TO15	m,p-Xylene	47	21	80	ppbv	J	Tr
VA2351	REG	2/18/2013	EPA TO15	m,p-Xylene	48	21	80	ppbv	J	Tr
VA2352	REG	2/18/2013	EPA TO15	m,p-Xylene	60	21	80	ppbv	J	Tr
VA2353	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	100	400	ppbv		
VA2354	REG	2/18/2013	EPA TO15	m,p-Xylene	66	21	80	ppbv	J	Tr
VA2355	REG	2/18/2013	EPA TO15	m,p-Xylene	71	21	80	ppbv	J	Tr
VA2356	REG	2/18/2013	EPA TO15	m,p-Xylene	74	21	80	ppbv	J	Tr
VA2357	FD	2/18/2013	EPA TO15	m,p-Xylene	130	21	80	ppbv		
VA2358	REG	2/18/2013	EPA TO15	m,p-Xylene	64	21	80	ppbv	J	Tr
VA2408	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	100	400	ppbv		
VA2409	REG	2/18/2013	EPA TO15	m,p-Xylene	86	21	80	ppbv		
VA2410	REG	2/18/2013	EPA TO15	m,p-Xylene	69	21	80	ppbv	J	Tr
VA2411	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2412	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	210	800	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>m,p-Xylene</b>	<b>1.5</b>	<b>0.52</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2413	REG	2/18/2013	EPA TO15	m,p-Xylene	ND	210	800	ppbv		
VA2271	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2272	REG	2/19/2013	EPA TO15	m,p-Xylene	43000	21000	80000	ppbv	J	Tr
VA2273	FD	2/19/2013	EPA TO15	m,p-Xylene	ND	21000	80000	ppbv		
VA2274	REG	2/19/2013	EPA TO15	m,p-Xylene	15000	4200	16000	ppbv	J	Tr
VA2348	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	210	800	ppbv		
VA2359	REG	2/19/2013	EPA TO15	m,p-Xylene	56	21	80	ppbv	J	Tr
VA2360	REG	2/19/2013	EPA TO15	m,p-Xylene	62	21	80	ppbv	J	Tr
VA2361	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2512	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv		
VA2513	FD	2/19/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv		
VA2514	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv		
VA2515	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv		
VA2516	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv		
VA2517	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	21	80	ppbv		
VA2518	REG	2/19/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>n-Hexane</b>	<b>3</b>	<b>0.69</b>	<b>2</b>	<b>ppbv</b>		
VA2460	REG	2/14/2013	EPA TO15	n-Hexane	390	140	400	ppbv	J	Tr
VA2461	REG	2/14/2013	EPA TO15	n-Hexane	740	140	400	ppbv		
VA2462	FD	2/14/2013	EPA TO15	n-Hexane	810	140	400	ppbv		
VA2463	REG	2/14/2013	EPA TO15	n-Hexane	120	28	80	ppbv		
VA2464	REG	2/14/2013	EPA TO15	n-Hexane	100	28	80	ppbv		
VA2465	REG	2/14/2013	EPA TO15	n-Hexane	780	280	800	ppbv	J	Tr
VA2466	REG	2/14/2013	EPA TO15	n-Hexane	4200	550	1600	ppbv		
VA2467	REG	2/14/2013	EPA TO15	n-Hexane	ND	5.5	16	ppbv	U	K3
VA2468	REG	2/14/2013	EPA TO15	n-Hexane	190	28	80	ppbv	J-	H
VA2469	REG	2/14/2013	EPA TO15	n-Hexane	29	5.5	16	ppbv		
VA2470	REG	2/14/2013	EPA TO15	n-Hexane	19	5.5	16	ppbv		
VA2471	REG	2/14/2013	EPA TO15	n-Hexane	140	28	80	ppbv		
VA2472	REG	2/14/2013	EPA TO15	n-Hexane	9600	550	1600	ppbv	J-	H
VA2342	REG	2/18/2013	EPA TO15	n-Hexane	18	2.8	8	ppbv		
VA2343	REG	2/18/2013	EPA TO15	n-Hexane	17	2.8	8	ppbv		
VA2344	REG	2/18/2013	EPA TO15	n-Hexane	3400	550	1600	ppbv		
VA2345	REG	2/18/2013	EPA TO15	n-Hexane	3800	550	1600	ppbv		
VA2346	REG	2/18/2013	EPA TO15	n-Hexane	5200	550	1600	ppbv		
VA2347	FD	2/18/2013	EPA TO15	n-Hexane	3700	550	1600	ppbv		
VA2349	REG	2/18/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>n-Hexane</b>	<b>3</b>	<b>0.69</b>	<b>2</b>	<b>ppbv</b>		
VA2350	REG	2/18/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2351	REG	2/18/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2352	REG	2/18/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2353	REG	2/18/2013	EPA TO15	n-Hexane	510	140	400	ppbv		
VA2354	REG	2/18/2013	EPA TO15	n-Hexane	510	28	80	ppbv		
VA2355	REG	2/18/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2356	REG	2/18/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2357	FD	2/18/2013	EPA TO15	n-Hexane	52	28	80	ppbv	J	Tr
VA2358	REG	2/18/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2408	REG	2/18/2013	EPA TO15	n-Hexane	340	140	400	ppbv	J	Tr
VA2409	REG	2/18/2013	EPA TO15	n-Hexane	84	28	80	ppbv		
VA2410	REG	2/18/2013	EPA TO15	n-Hexane	82	28	80	ppbv		
VA2411	REG	2/18/2013	EPA TO15	n-Hexane	6100	550	1600	ppbv		
VA2412	REG	2/18/2013	EPA TO15	n-Hexane	560	280	800	ppbv	J	Tr
VA2413	REG	2/18/2013	EPA TO15	n-Hexane	540	280	800	ppbv	J	Tr
VA2271	REG	2/19/2013	EPA TO15	n-Hexane	9200	550	1600	ppbv		
VA2272	REG	2/19/2013	EPA TO15	n-Hexane	1800000	28000	80000	ppbv		
VA2273	FD	2/19/2013	EPA TO15	n-Hexane	1800000	28000	80000	ppbv		
VA2274	REG	2/19/2013	EPA TO15	n-Hexane	520000	14000	40000	ppbv		
VA2348	REG	2/19/2013	EPA TO15	n-Hexane	1100	280	800	ppbv		
VA2359	REG	2/19/2013	EPA TO15	n-Hexane	140	28	80	ppbv		
VA2360	REG	2/19/2013	EPA TO15	n-Hexane	410	28	80	ppbv		
VA2361	REG	2/19/2013	EPA TO15	n-Hexane	28000	550	1600	ppbv		
VA2512	REG	2/19/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2513	FD	2/19/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2514	REG	2/19/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2515	REG	2/19/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2516	REG	2/19/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2517	REG	2/19/2013	EPA TO15	n-Hexane	100	28	80	ppbv		
VA2518	REG	2/19/2013	EPA TO15	n-Hexane	2400	550	1600	ppbv		
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Toluene</b>	<b>4.4</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2460	REG	2/14/2013	EPA TO15	Toluene	480	32	200	ppbv		
VA2461	REG	2/14/2013	EPA TO15	Toluene	610	32	200	ppbv		
VA2462	FD	2/14/2013	EPA TO15	Toluene	1100	32	200	ppbv		
VA2463	REG	2/14/2013	EPA TO15	Toluene	270	6.3	40	ppbv		
VA2464	REG	2/14/2013	EPA TO15	Toluene	210	6.3	40	ppbv		
VA2465	REG	2/14/2013	EPA TO15	Toluene	560	63	400	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Toluene</b>	<b>4.4</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2466	REG	2/14/2013	EPA TO15	Toluene	860	130	800	ppbv		
VA2467	REG	2/14/2013	EPA TO15	Toluene	88	1.3	8	ppbv		
VA2468	REG	2/14/2013	EPA TO15	Toluene	90	6.3	40	ppbv	J-	H
VA2469	REG	2/14/2013	EPA TO15	Toluene	87	1.3	8	ppbv		
VA2470	REG	2/14/2013	EPA TO15	Toluene	110	1.3	8	ppbv		
VA2471	REG	2/14/2013	EPA TO15	Toluene	43	6.3	40	ppbv		
VA2472	REG	2/14/2013	EPA TO15	Toluene	1300	130	800	ppbv	J-	H
VA2342	REG	2/18/2013	EPA TO15	Toluene	60	0.63	4	ppbv		
VA2343	REG	2/18/2013	EPA TO15	Toluene	62	0.63	4	ppbv		
VA2344	REG	2/18/2013	EPA TO15	Toluene	3500	130	800	ppbv		
VA2345	REG	2/18/2013	EPA TO15	Toluene	16000	130	800	ppbv		
VA2346	REG	2/18/2013	EPA TO15	Toluene	9400	130	800	ppbv		
VA2347	FD	2/18/2013	EPA TO15	Toluene	6200	130	800	ppbv		
VA2349	REG	2/18/2013	EPA TO15	Toluene	88	6.3	40	ppbv		
VA2350	REG	2/18/2013	EPA TO15	Toluene	86	6.3	40	ppbv		
VA2351	REG	2/18/2013	EPA TO15	Toluene	91	6.3	40	ppbv		
VA2352	REG	2/18/2013	EPA TO15	Toluene	140	6.3	40	ppbv		
VA2353	REG	2/18/2013	EPA TO15	Toluene	440	32	200	ppbv		
VA2354	REG	2/18/2013	EPA TO15	Toluene	160	6.3	40	ppbv		
VA2355	REG	2/18/2013	EPA TO15	Toluene	140	6.3	40	ppbv		
VA2356	REG	2/18/2013	EPA TO15	Toluene	140	6.3	40	ppbv		
VA2357	FD	2/18/2013	EPA TO15	Toluene	390	6.3	40	ppbv		
VA2358	REG	2/18/2013	EPA TO15	Toluene	110	6.3	40	ppbv		
VA2408	REG	2/18/2013	EPA TO15	Toluene	1200	32	200	ppbv		
VA2409	REG	2/18/2013	EPA TO15	Toluene	1000	6.3	40	ppbv		
VA2410	REG	2/18/2013	EPA TO15	Toluene	710	6.3	40	ppbv		
VA2411	REG	2/18/2013	EPA TO15	Toluene	58000	1300	8000	ppbv		
VA2412	REG	2/18/2013	EPA TO15	Toluene	3900	63	400	ppbv		
VA2413	REG	2/18/2013	EPA TO15	Toluene	3500	63	400	ppbv		
VA2271	REG	2/19/2013	EPA TO15	Toluene	1500	130	800	ppbv		
VA2272	REG	2/19/2013	EPA TO15	Toluene	430000	6300	40000	ppbv		
VA2273	FD	2/19/2013	EPA TO15	Toluene	410000	6300	40000	ppbv		
VA2274	REG	2/19/2013	EPA TO15	Toluene	82000	1300	8000	ppbv		
VA2348	REG	2/19/2013	EPA TO15	Toluene	2600	63	400	ppbv		
VA2359	REG	2/19/2013	EPA TO15	Toluene	1900	6.3	40	ppbv		
VA2360	REG	2/19/2013	EPA TO15	Toluene	650	6.3	40	ppbv		
VA2361	REG	2/19/2013	EPA TO15	Toluene	7200	130	800	ppbv		
VA2512	REG	2/19/2013	EPA TO15	Toluene	400	6.3	40	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Toluene</b>	<b>4.4</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2513	FD	2/19/2013	EPA TO15	Toluene	420	6.3	40	ppbv		
VA2514	REG	2/19/2013	EPA TO15	Toluene	370	6.3	40	ppbv		
VA2515	REG	2/19/2013	EPA TO15	Toluene	350	6.3	40	ppbv		
VA2516	REG	2/19/2013	EPA TO15	Toluene	470	6.3	40	ppbv		
VA2517	REG	2/19/2013	EPA TO15	Toluene	700	6.3	40	ppbv		
VA2518	REG	2/19/2013	EPA TO15	Toluene	4000	130	800	ppbv		
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>trans-1,2-Dichloroethene</b>	<b>1.2</b>	<b>0.12</b>	<b>1</b>	<b>ppbv</b>		
VA2460	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	23	200	ppbv		
VA2461	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	23	200	ppbv		
VA2462	FD	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	23	200	ppbv		
VA2463	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2464	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2465	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	47	400	ppbv		
VA2466	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2467	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	0.94	8	ppbv		
VA2468	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv	UJ	H
VA2469	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	0.94	8	ppbv		
VA2470	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	0.94	8	ppbv		
VA2471	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2472	REG	2/14/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv	UJ	H
VA2342	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	0.47	4	ppbv		
VA2343	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	0.47	4	ppbv		
VA2344	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2345	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2346	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2347	FD	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2349	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2350	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2351	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2352	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2353	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	23	200	ppbv		
VA2354	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2355	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2356	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2357	FD	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2358	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2408	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	23	200	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>trans-1,2-Dichloroethene</b>	<b>1.2</b>	<b>0.12</b>	<b>1</b>	<b>ppbv</b>		
VA2409	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2410	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2411	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2412	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	47	400	ppbv		
VA2413	REG	2/18/2013	EPA TO15	trans-1,2-Dichloroethene	ND	47	400	ppbv		
VA2271	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2272	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4700	40000	ppbv		
VA2273	FD	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4700	40000	ppbv		
VA2274	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	940	8000	ppbv		
VA2348	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	47	400	ppbv		
VA2359	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2360	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2361	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
VA2512	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2513	FD	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2514	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2515	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2516	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2517	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	4.7	40	ppbv		
VA2518	REG	2/19/2013	EPA TO15	trans-1,2-Dichloroethene	ND	94	800	ppbv		
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Xylenes, Total</b>	<b>1.5</b>	<b>0.78</b>	<b>3</b>	<b>ppbv</b>	<b>J</b>	<b>D1Tr</b>
VA2460	REG	2/14/2013	EPA TO15	Xylenes, Total	ND	160	600	ppbv		
VA2461	REG	2/14/2013	EPA TO15	Xylenes, Total	ND	160	600	ppbv		
VA2462	FD	2/14/2013	EPA TO15	Xylenes, Total	ND	160	600	ppbv		
VA2463	REG	2/14/2013	EPA TO15	Xylenes, Total	56	31	120	ppbv	J	Tr
VA2464	REG	2/14/2013	EPA TO15	Xylenes, Total	53	31	120	ppbv	J	Tr
VA2465	REG	2/14/2013	EPA TO15	Xylenes, Total	ND	310	1200	ppbv		
VA2466	REG	2/14/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2467	REG	2/14/2013	EPA TO15	Xylenes, Total	16	6.3	24	ppbv	J	Tr
VA2468	REG	2/14/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv	UJ	H
VA2469	REG	2/14/2013	EPA TO15	Xylenes, Total	17	6.3	24	ppbv	J	Tr
VA2470	REG	2/14/2013	EPA TO15	Xylenes, Total	17	6.3	24	ppbv	J	Tr
VA2471	REG	2/14/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv		
VA2472	REG	2/14/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv	UJ	H
VA2342	REG	2/18/2013	EPA TO15	Xylenes, Total	9.2	3.1	12	ppbv	J	D1Tr
VA2343	REG	2/18/2013	EPA TO15	Xylenes, Total	9.5	3.1	12	ppbv	J	D1Tr
VA2344	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		



**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8120-TB</b>	<b>TB</b>	<b>2/14/2013</b>	<b>EPA TO15</b>	<b>Xylenes, Total</b>	<b>1.5</b>	<b>0.78</b>	<b>3</b>	<b>ppbv</b>	<b>J</b>	<b>D1Tr</b>
VA2345	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2346	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2347	FD	2/18/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2349	REG	2/18/2013	EPA TO15	Xylenes, Total	46	31	120	ppbv	J	D1Tr
VA2350	REG	2/18/2013	EPA TO15	Xylenes, Total	47	31	120	ppbv	J	D1Tr
VA2351	REG	2/18/2013	EPA TO15	Xylenes, Total	48	31	120	ppbv	J	Tr
VA2352	REG	2/18/2013	EPA TO15	Xylenes, Total	60	31	120	ppbv	J	Tr
VA2353	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	160	600	ppbv		
VA2354	REG	2/18/2013	EPA TO15	Xylenes, Total	110	31	120	ppbv	J	Tr
VA2355	REG	2/18/2013	EPA TO15	Xylenes, Total	120	31	120	ppbv		
VA2356	REG	2/18/2013	EPA TO15	Xylenes, Total	120	31	120	ppbv		
VA2357	FD	2/18/2013	EPA TO15	Xylenes, Total	210	31	120	ppbv		
VA2358	REG	2/18/2013	EPA TO15	Xylenes, Total	100	31	120	ppbv	J	Tr
VA2408	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	160	600	ppbv		
VA2409	REG	2/18/2013	EPA TO15	Xylenes, Total	140	31	120	ppbv		
VA2410	REG	2/18/2013	EPA TO15	Xylenes, Total	69	31	120	ppbv	J	Tr
VA2411	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2412	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	310	1200	ppbv		
VA2413	REG	2/18/2013	EPA TO15	Xylenes, Total	ND	310	1200	ppbv		
VA2271	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2272	REG	2/19/2013	EPA TO15	Xylenes, Total	43000	31000	120000	ppbv	J	D1Tr
VA2273	FD	2/19/2013	EPA TO15	Xylenes, Total	ND	31000	120000	ppbv		
VA2274	REG	2/19/2013	EPA TO15	Xylenes, Total	15000	6300	24000	ppbv	J	D1Tr
VA2348	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	310	1200	ppbv		
VA2359	REG	2/19/2013	EPA TO15	Xylenes, Total	110	31	120	ppbv	J	Tr
VA2360	REG	2/19/2013	EPA TO15	Xylenes, Total	100	31	120	ppbv	J	Tr
VA2361	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2512	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv		
VA2513	FD	2/19/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv		
VA2514	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv		
VA2515	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv		
VA2516	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv		
VA2517	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	31	120	ppbv		
VA2518	REG	2/19/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
<b>VA8121-TB</b>	<b>TB</b>	<b>2/19/2013</b>	<b>EPA TO15</b>	<b>Benzene</b>	<b>16</b>	<b>0.13</b>	<b>1</b>	<b>ppbv</b>		
VA2275	REG	2/19/2013	EPA TO15	Benzene	10000	100	800	ppbv		
VA2292	REG	2/20/2013	EPA TO15	Benzene	68000	500	4000	ppbv		

**Appendix B3 - Table 4**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8121-TB</b>	<b>TB</b>	<b>2/19/2013</b>	<b>EPA TO15</b>	<b>Benzene</b>	<b>16</b>	<b>0.13</b>	<b>1</b>	<b>ppbv</b>		
VA2293	REG	2/20/2013	EPA TO15	Benzene	850000	10000	80000	ppbv		
VA2294	FD	2/20/2013	EPA TO15	Benzene	960000	10000	80000	ppbv		
VA2295	REG	2/20/2013	EPA TO15	Benzene	220000	2500	20000	ppbv		
VA2296	REG	2/20/2013	EPA TO15	Benzene	830000	2500	20000	ppbv		
VA2310	REG	2/20/2013	EPA TO15	Benzene	14000	1000	8000	ppbv		
VA2311	REG	2/20/2013	EPA TO15	Benzene	810	50	400	ppbv		
VA2312	REG	2/20/2013	EPA TO15	Benzene	550	50	400	ppbv		
VA2313	REG	2/20/2013	EPA TO15	Benzene	4600	100	800	ppbv		
VA2339	REG	2/20/2013	EPA TO15	Benzene	2000	50	400	ppbv		
VA2499	REG	2/20/2013	EPA TO15	Benzene	130	5	40	ppbv		
VA2500	REG	2/20/2013	EPA TO15	Benzene	62	5	40	ppbv	U	K3
VA2501	FD	2/20/2013	EPA TO15	Benzene	92	5	40	ppbv		
VA2502	REG	2/20/2013	EPA TO15	Benzene	61	5	40	ppbv	U	K3
VA2503	REG	2/20/2013	EPA TO15	Benzene	66	5	40	ppbv	U	K3
VA2504	REG	2/20/2013	EPA TO15	Benzene	ND	25	200	ppbv		
VA2505	REG	2/20/2013	EPA TO15	Benzene	ND	100	800	ppbv		
VA2539	REG	2/20/2013	EPA TO15	Benzene	51000	1000	8000	ppbv		
VA2540	REG	2/20/2013	EPA TO15	Benzene	16000	1000	8000	ppbv		
VA2541	FD	2/20/2013	EPA TO15	Benzene	38000	1000	8000	ppbv		
VA2542	REG	2/20/2013	EPA TO15	Benzene	3200	200	1600	ppbv		
VA2543	REG	2/20/2013	EPA TO15	Benzene	6200	200	1600	ppbv		
VA2544	REG	2/20/2013	EPA TO15	Benzene	5600	100	800	ppbv		
VA2545	REG	2/20/2013	EPA TO15	Benzene	6400	100	800	ppbv		
VA2506	REG	2/21/2013	EPA TO15	Benzene	100	5	40	ppbv		
VA2507	REG	2/21/2013	EPA TO15	Benzene	97	5	40	ppbv		
VA2508	REG	2/21/2013	EPA TO15	Benzene	35	1	8	ppbv	U	K3
VA2509	REG	2/21/2013	EPA TO15	Benzene	30	1	8	ppbv	U	K3
VA2510	REG	2/21/2013	EPA TO15	Benzene	390	25	200	ppbv		
VA2511	REG	2/21/2013	EPA TO15	Benzene	1400	100	800	ppbv		
VA2519	REG	2/21/2013	EPA TO15	Benzene	1200	5	40	ppbv		
VA2520	REG	2/21/2013	EPA TO15	Benzene	1400	5	40	ppbv		
VA2521	REG	2/21/2013	EPA TO15	Benzene	1500	100	800	ppbv		
VA2522	REG	2/21/2013	EPA TO15	Benzene	1700	100	800	ppbv		
VA2523	FD	2/21/2013	EPA TO15	Benzene	2200	100	800	ppbv		
VA2524	REG	2/21/2013	EPA TO15	Benzene	1300	100	800	ppbv		
VA2525	REG	2/21/2013	EPA TO15	Benzene	1300	100	800	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8121-TB</b>	<b>TB</b>	<b>2/19/2013</b>	<b>EPA TO15</b>	<b>Cyclohexane</b>	<b>37</b>	<b>0.68</b>	<b>2</b>	<b>ppbv</b>		
VA2275	REG	2/19/2013	EPA TO15	Cyclohexane	19000	550	1600	ppbv		
VA2292	REG	2/20/2013	EPA TO15	Cyclohexane	190000	2700	8000	ppbv		
VA2293	REG	2/20/2013	EPA TO15	Cyclohexane	2500000	55000	160000	ppbv		
VA2294	FD	2/20/2013	EPA TO15	Cyclohexane	2800000	55000	160000	ppbv		
VA2295	REG	2/20/2013	EPA TO15	Cyclohexane	660000	14000	40000	ppbv		
VA2296	REG	2/20/2013	EPA TO15	Cyclohexane	1600000	27000	80000	ppbv		
VA2310	REG	2/20/2013	EPA TO15	Cyclohexane	67000	5500	16000	ppbv		
VA2311	REG	2/20/2013	EPA TO15	Cyclohexane	1100	270	800	ppbv		
VA2312	REG	2/20/2013	EPA TO15	Cyclohexane	ND	270	800	ppbv		
VA2313	REG	2/20/2013	EPA TO15	Cyclohexane	3100	550	1600	ppbv		
VA2339	REG	2/20/2013	EPA TO15	Cyclohexane	16000	270	800	ppbv		
VA2499	REG	2/20/2013	EPA TO15	Cyclohexane	130	27	80	ppbv	U	K3
VA2500	REG	2/20/2013	EPA TO15	Cyclohexane	ND	27	80	ppbv	U	K3
VA2501	FD	2/20/2013	EPA TO15	Cyclohexane	100	27	80	ppbv	U	K3
VA2502	REG	2/20/2013	EPA TO15	Cyclohexane	ND	27	80	ppbv	U	K3
VA2503	REG	2/20/2013	EPA TO15	Cyclohexane	ND	27	80	ppbv	U	K3
VA2504	REG	2/20/2013	EPA TO15	Cyclohexane	ND	140	400	ppbv		
VA2505	REG	2/20/2013	EPA TO15	Cyclohexane	3000	550	1600	ppbv		
VA2539	REG	2/20/2013	EPA TO15	Cyclohexane	72000	5500	16000	ppbv		
VA2540	REG	2/20/2013	EPA TO15	Cyclohexane	22000	5500	16000	ppbv		
VA2541	FD	2/20/2013	EPA TO15	Cyclohexane	59000	5500	16000	ppbv		
VA2542	REG	2/20/2013	EPA TO15	Cyclohexane	4400	1100	3200	ppbv		
VA2543	REG	2/20/2013	EPA TO15	Cyclohexane	8300	1100	3200	ppbv		
VA2544	REG	2/20/2013	EPA TO15	Cyclohexane	7400	550	1600	ppbv		
VA2545	REG	2/20/2013	EPA TO15	Cyclohexane	7500	550	1600	ppbv		
VA2506	REG	2/21/2013	EPA TO15	Cyclohexane	180	27	80	ppbv	U	K3
VA2507	REG	2/21/2013	EPA TO15	Cyclohexane	170	27	80	ppbv	U	K3
VA2508	REG	2/21/2013	EPA TO15	Cyclohexane	56	5.5	16	ppbv	U	K3
VA2509	REG	2/21/2013	EPA TO15	Cyclohexane	50	5.5	16	ppbv	U	K3
VA2510	REG	2/21/2013	EPA TO15	Cyclohexane	250	140	400	ppbv	J	Tr
VA2511	REG	2/21/2013	EPA TO15	Cyclohexane	4000	550	1600	ppbv		
VA2519	REG	2/21/2013	EPA TO15	Cyclohexane	1600	27	80	ppbv		
VA2520	REG	2/21/2013	EPA TO15	Cyclohexane	980	270	800	ppbv		
VA2521	REG	2/21/2013	EPA TO15	Cyclohexane	2000	550	1600	ppbv		
VA2522	REG	2/21/2013	EPA TO15	Cyclohexane	2600	550	1600	ppbv		
VA2523	FD	2/21/2013	EPA TO15	Cyclohexane	3500	550	1600	ppbv		
VA2524	REG	2/21/2013	EPA TO15	Cyclohexane	1700	550	1600	ppbv		
VA2525	REG	2/21/2013	EPA TO15	Cyclohexane	1900	550	1600	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8121-TB</b>	<b>TB</b>	<b>2/19/2013</b>	<b>EPA TO15</b>	<b>Heptane</b>	<b>14</b>	<b>0.25</b>	<b>1</b>	<b>ppbv</b>		
VA2275	REG	2/19/2013	EPA TO15	Heptane	23000	200	800	ppbv		
VA2292	REG	2/20/2013	EPA TO15	Heptane	18000	100	400	ppbv		
VA2293	REG	2/20/2013	EPA TO15	Heptane	830000	20000	80000	ppbv		
VA2294	FD	2/20/2013	EPA TO15	Heptane	910000	20000	80000	ppbv		
VA2295	REG	2/20/2013	EPA TO15	Heptane	470000	5000	20000	ppbv		
VA2296	REG	2/20/2013	EPA TO15	Heptane	910000	5000	20000	ppbv		
VA2310	REG	2/20/2013	EPA TO15	Heptane	22000	2000	8000	ppbv		
VA2311	REG	2/20/2013	EPA TO15	Heptane	1100	100	400	ppbv		
VA2312	REG	2/20/2013	EPA TO15	Heptane	470	100	400	ppbv		
VA2313	REG	2/20/2013	EPA TO15	Heptane	1800	200	800	ppbv		
VA2339	REG	2/20/2013	EPA TO15	Heptane	5800	100	400	ppbv		
VA2499	REG	2/20/2013	EPA TO15	Heptane	42	10	40	ppbv	U	K3
VA2500	REG	2/20/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2501	FD	2/20/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2502	REG	2/20/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2503	REG	2/20/2013	EPA TO15	Heptane	ND	10	40	ppbv		
VA2504	REG	2/20/2013	EPA TO15	Heptane	ND	50	200	ppbv		
VA2505	REG	2/20/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2539	REG	2/20/2013	EPA TO15	Heptane	70000	2000	8000	ppbv		
VA2540	REG	2/20/2013	EPA TO15	Heptane	22000	2000	8000	ppbv		
VA2541	FD	2/20/2013	EPA TO15	Heptane	55000	2000	8000	ppbv		
VA2542	REG	2/20/2013	EPA TO15	Heptane	4600	400	1600	ppbv		
VA2543	REG	2/20/2013	EPA TO15	Heptane	7300	400	1600	ppbv		
VA2544	REG	2/20/2013	EPA TO15	Heptane	6600	200	800	ppbv		
VA2545	REG	2/20/2013	EPA TO15	Heptane	6000	200	800	ppbv		
VA2506	REG	2/21/2013	EPA TO15	Heptane	80	10	40	ppbv		
VA2507	REG	2/21/2013	EPA TO15	Heptane	77	10	40	ppbv		
VA2508	REG	2/21/2013	EPA TO15	Heptane	31	2	8	ppbv	U	K3
VA2509	REG	2/21/2013	EPA TO15	Heptane	27	2	8	ppbv	U	K3
VA2510	REG	2/21/2013	EPA TO15	Heptane	250	50	200	ppbv		
VA2511	REG	2/21/2013	EPA TO15	Heptane	ND	200	800	ppbv		
VA2519	REG	2/21/2013	EPA TO15	Heptane	1600	10	40	ppbv		
VA2520	REG	2/21/2013	EPA TO15	Heptane	960	100	400	ppbv		
VA2521	REG	2/21/2013	EPA TO15	Heptane	2000	200	800	ppbv		
VA2522	REG	2/21/2013	EPA TO15	Heptane	2800	200	800	ppbv		
VA2523	FD	2/21/2013	EPA TO15	Heptane	3700	200	800	ppbv		
VA2524	REG	2/21/2013	EPA TO15	Heptane	1900	200	800	ppbv		
VA2525	REG	2/21/2013	EPA TO15	Heptane	1900	200	800	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8121-TB</b>	<b>TB</b>	<b>2/19/2013</b>	<b>EPA TO15</b>	<b>n-Hexane</b>	<b>34</b>	<b>0.69</b>	<b>2</b>	<b>ppbv</b>		
VA2275	REG	2/19/2013	EPA TO15	n-Hexane	14000	550	1600	ppbv		
VA2292	REG	2/20/2013	EPA TO15	n-Hexane	79000	2800	8000	ppbv		
VA2293	REG	2/20/2013	EPA TO15	n-Hexane	2900000	55000	160000	ppbv		
VA2294	FD	2/20/2013	EPA TO15	n-Hexane	3300000	55000	160000	ppbv		
VA2295	REG	2/20/2013	EPA TO15	n-Hexane	730000	14000	40000	ppbv		
VA2296	REG	2/20/2013	EPA TO15	n-Hexane	1500000	28000	80000	ppbv		
VA2310	REG	2/20/2013	EPA TO15	n-Hexane	38000	5500	16000	ppbv		
VA2311	REG	2/20/2013	EPA TO15	n-Hexane	1800	280	800	ppbv		
VA2312	REG	2/20/2013	EPA TO15	n-Hexane	1600	280	800	ppbv		
VA2313	REG	2/20/2013	EPA TO15	n-Hexane	2700	550	1600	ppbv		
VA2339	REG	2/20/2013	EPA TO15	n-Hexane	12000	280	800	ppbv		
VA2499	REG	2/20/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2500	REG	2/20/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2501	FD	2/20/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2502	REG	2/20/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2503	REG	2/20/2013	EPA TO15	n-Hexane	ND	28	80	ppbv		
VA2504	REG	2/20/2013	EPA TO15	n-Hexane	1400	140	400	ppbv		
VA2505	REG	2/20/2013	EPA TO15	n-Hexane	2700	550	1600	ppbv		
VA2539	REG	2/20/2013	EPA TO15	n-Hexane	56000	5500	16000	ppbv		
VA2540	REG	2/20/2013	EPA TO15	n-Hexane	17000	5500	16000	ppbv		
VA2541	FD	2/20/2013	EPA TO15	n-Hexane	45000	5500	16000	ppbv		
VA2542	REG	2/20/2013	EPA TO15	n-Hexane	7500	1100	3200	ppbv		
VA2543	REG	2/20/2013	EPA TO15	n-Hexane	5400	1100	3200	ppbv		
VA2544	REG	2/20/2013	EPA TO15	n-Hexane	4900	550	1600	ppbv		
VA2545	REG	2/20/2013	EPA TO15	n-Hexane	4500	550	1600	ppbv		
VA2506	REG	2/21/2013	EPA TO15	n-Hexane	110	28	80	ppbv	U	K3
VA2507	REG	2/21/2013	EPA TO15	n-Hexane	ND	28	80	ppbv	U	K3
VA2508	REG	2/21/2013	EPA TO15	n-Hexane	37	5.5	16	ppbv	U	K3
VA2509	REG	2/21/2013	EPA TO15	n-Hexane	25	5.5	16	ppbv	U	K3
VA2510	REG	2/21/2013	EPA TO15	n-Hexane	330	140	400	ppbv	J	Tr
VA2511	REG	2/21/2013	EPA TO15	n-Hexane	4500	550	1600	ppbv		
VA2519	REG	2/21/2013	EPA TO15	n-Hexane	780	28	80	ppbv		
VA2520	REG	2/21/2013	EPA TO15	n-Hexane	1200	28	80	ppbv		
VA2521	REG	2/21/2013	EPA TO15	n-Hexane	1100	550	1600	ppbv	J	Tr
VA2522	REG	2/21/2013	EPA TO15	n-Hexane	1500	550	1600	ppbv	J	Tr
VA2523	FD	2/21/2013	EPA TO15	n-Hexane	1900	550	1600	ppbv		
VA2524	REG	2/21/2013	EPA TO15	n-Hexane	1400	550	1600	ppbv	J	Tr
VA2525	REG	2/21/2013	EPA TO15	n-Hexane	1200	550	1600	ppbv	J	Tr

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8121-TB</b>	<b>TB</b>	<b>2/19/2013</b>	<b>EPA TO15</b>	<b>Toluene</b>	<b>4.9</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2275	REG	2/19/2013	EPA TO15	Toluene	8200	130	800	ppbv		
VA2292	REG	2/20/2013	EPA TO15	Toluene	8100	63	400	ppbv		
VA2293	REG	2/20/2013	EPA TO15	Toluene	420000	13000	80000	ppbv		
VA2294	FD	2/20/2013	EPA TO15	Toluene	470000	13000	80000	ppbv		
VA2295	REG	2/20/2013	EPA TO15	Toluene	290000	3200	20000	ppbv		
VA2296	REG	2/20/2013	EPA TO15	Toluene	1000000	6300	40000	ppbv		
VA2310	REG	2/20/2013	EPA TO15	Toluene	25000	1300	8000	ppbv		
VA2311	REG	2/20/2013	EPA TO15	Toluene	2800	63	400	ppbv		
VA2312	REG	2/20/2013	EPA TO15	Toluene	1700	63	400	ppbv		
VA2313	REG	2/20/2013	EPA TO15	Toluene	5200	130	800	ppbv		
VA2339	REG	2/20/2013	EPA TO15	Toluene	5600	63	400	ppbv		
VA2499	REG	2/20/2013	EPA TO15	Toluene	380	6.3	40	ppbv		
VA2500	REG	2/20/2013	EPA TO15	Toluene	180	6.3	40	ppbv		
VA2501	FD	2/20/2013	EPA TO15	Toluene	280	6.3	40	ppbv		
VA2502	REG	2/20/2013	EPA TO15	Toluene	210	6.3	40	ppbv		
VA2503	REG	2/20/2013	EPA TO15	Toluene	240	6.3	40	ppbv		
VA2504	REG	2/20/2013	EPA TO15	Toluene	520	32	200	ppbv		
VA2505	REG	2/20/2013	EPA TO15	Toluene	1200	130	800	ppbv		
VA2539	REG	2/20/2013	EPA TO15	Toluene	140000	1300	8000	ppbv		
VA2540	REG	2/20/2013	EPA TO15	Toluene	43000	1300	8000	ppbv		
VA2541	FD	2/20/2013	EPA TO15	Toluene	95000	1300	8000	ppbv		
VA2542	REG	2/20/2013	EPA TO15	Toluene	11000	250	1600	ppbv		
VA2543	REG	2/20/2013	EPA TO15	Toluene	23000	250	1600	ppbv		
VA2544	REG	2/20/2013	EPA TO15	Toluene	22000	130	800	ppbv		
VA2545	REG	2/20/2013	EPA TO15	Toluene	24000	130	800	ppbv		
VA2506	REG	2/21/2013	EPA TO15	Toluene	240	6.3	40	ppbv		
VA2507	REG	2/21/2013	EPA TO15	Toluene	230	6.3	40	ppbv		
VA2508	REG	2/21/2013	EPA TO15	Toluene	110	1.3	8	ppbv		
VA2509	REG	2/21/2013	EPA TO15	Toluene	100	1.3	8	ppbv		
VA2510	REG	2/21/2013	EPA TO15	Toluene	770	32	200	ppbv		
VA2511	REG	2/21/2013	EPA TO15	Toluene	3700	130	800	ppbv		
VA2519	REG	2/21/2013	EPA TO15	Toluene	2700	63	400	ppbv		
VA2520	REG	2/21/2013	EPA TO15	Toluene	2300	63	400	ppbv		
VA2521	REG	2/21/2013	EPA TO15	Toluene	6200	130	800	ppbv		
VA2522	REG	2/21/2013	EPA TO15	Toluene	8000	130	800	ppbv		
VA2523	FD	2/21/2013	EPA TO15	Toluene	11000	130	800	ppbv		
VA2524	REG	2/21/2013	EPA TO15	Toluene	5000	130	800	ppbv		
VA2525	REG	2/21/2013	EPA TO15	Toluene	5100	130	800	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>2-Butanone</b>	<b>2.3</b>	<b>0.29</b>	<b>1</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2286	REG	3/18/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2287	REG	3/18/2013	EPA TO15	2-Butanone	ND	11	40	ppbv		
VA2331	REG	3/18/2013	EPA TO15	2-Butanone	19000	230	800	ppbv		
VA2332	REG	3/18/2013	EPA TO15	2-Butanone	280	57	200	ppbv		
VA2333	REG	3/18/2013	EPA TO15	2-Butanone	ND	2300	8000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	2-Butanone	ND	5700	20000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2336	REG	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2399	REG	3/18/2013	EPA TO15	2-Butanone	ND	2300	8000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2401	REG	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2402	REG	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2403	REG	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2404	REG	3/18/2013	EPA TO15	2-Butanone	ND	5700	20000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2406	FD	3/18/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2407	REG	3/18/2013	EPA TO15	2-Butanone	ND	2300	8000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2474	REG	3/18/2013	EPA TO15	2-Butanone	88	11	40	ppbv		
VA2475	REG	3/18/2013	EPA TO15	2-Butanone	79	11	40	ppbv		
VA2476	REG	3/18/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2477	FD	3/18/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2323	REG	3/19/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2324	REG	3/19/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2325	REG	3/19/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2326	REG	3/19/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2327	FD	3/19/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2328	REG	3/19/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2329	REG	3/19/2013	EPA TO15	2-Butanone	26000	5700	20000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	2-Butanone	ND	5700	20000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	2-Butanone	ND	11000	40000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Acetone</b>	<b>20</b>	<b>0.43</b>	<b>1</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	Acetone	480	170	400	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Acetone	1000	170	400	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Acetone	ND	17	40	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Acetone	390000	3400	8000	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Acetone</b>	<b>20</b>	<b>0.43</b>	<b>1</b>	<b>ppbv</b>		
VA2332	REG	3/18/2013	EPA TO15	Acetone	1100	86	200	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Acetone	35000	3400	8000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Acetone	60000	8600	20000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Acetone	ND	340	800	ppbv		
VA2336	REG	3/18/2013	EPA TO15	Acetone	ND	340	800	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Acetone	ND	3400	8000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Acetone	ND	340	800	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Acetone	ND	340	800	ppbv		
VA2402	REG	3/18/2013	EPA TO15	Acetone	1000	340	800	ppbv		
VA2403	REG	3/18/2013	EPA TO15	Acetone	1400	340	800	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Acetone	ND	8600	20000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Acetone	4800	340	800	ppbv		
VA2406	FD	3/18/2013	EPA TO15	Acetone	4600	340	800	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Acetone	22000	3400	8000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Acetone	980	170	400	ppbv		
VA2474	REG	3/18/2013	EPA TO15	Acetone	180	17	40	ppbv	U	K3
VA2475	REG	3/18/2013	EPA TO15	Acetone	160	17	40	ppbv	U	K3
VA2476	REG	3/18/2013	EPA TO15	Acetone	1000	170	400	ppbv		
VA2477	FD	3/18/2013	EPA TO15	Acetone	1100	170	400	ppbv		
VA2323	REG	3/19/2013	EPA TO15	Acetone	600	170	400	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Acetone	860	170	400	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Acetone	3900	170	400	ppbv		
VA2326	REG	3/19/2013	EPA TO15	Acetone	2300	170	400	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Acetone	980	170	400	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Acetone	1400	340	800	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Acetone	470000	8600	20000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Acetone	ND	8600	20000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Acetone	ND	17000	40000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Benzene</b>	<b>21</b>	<b>0.13</b>	<b>1</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	Benzene	3900	50	400	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Benzene	4000	50	400	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Benzene	510	5	40	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Benzene	17000	100	800	ppbv		
VA2332	REG	3/18/2013	EPA TO15	Benzene	ND	25	200	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Benzene	31000	1000	8000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Benzene	74000	2500	20000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Benzene	1300	100	800	ppbv		



**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Benzene</b>	<b>21</b>	<b>0.13</b>	<b>1</b>	<b>ppbv</b>		
VA2336	REG	3/18/2013	EPA TO15	Benzene	1300	100	800	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Benzene	160000	1000	8000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Benzene	4900	100	800	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Benzene	4900	100	800	ppbv		
VA2402	REG	3/18/2013	EPA TO15	Benzene	3600	100	800	ppbv		
VA2403	REG	3/18/2013	EPA TO15	Benzene	2100	100	800	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Benzene	220000	2500	20000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Benzene	8200	100	800	ppbv		
VA2406	FD	3/18/2013	EPA TO15	Benzene	8200	100	800	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Benzene	71000	1000	8000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Benzene	3500	50	400	ppbv		
VA2474	REG	3/18/2013	EPA TO15	Benzene	2500	50	400	ppbv		
VA2475	REG	3/18/2013	EPA TO15	Benzene	1700	50	400	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Benzene	1700	50	400	ppbv		
VA2477	FD	3/18/2013	EPA TO15	Benzene	1900	50	400	ppbv		
VA2323	REG	3/19/2013	EPA TO15	Benzene	11000	50	400	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Benzene	5600	50	400	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Benzene	6000	50	400	ppbv		
VA2326	REG	3/19/2013	EPA TO15	Benzene	19000	50	400	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Benzene	18000	200	1600	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Benzene	1900	100	800	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Benzene	270000	2500	20000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Benzene	52000	2500	20000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Benzene	290000	5000	40000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Cyclohexane</b>	<b>48</b>	<b>0.68</b>	<b>2</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	Cyclohexane	1400	270	800	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Cyclohexane	8300	270	800	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Cyclohexane	940	27	80	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Cyclohexane	40000	550	1600	ppbv		
VA2332	REG	3/18/2013	EPA TO15	Cyclohexane	450	140	400	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Cyclohexane	130000	5500	16000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Cyclohexane	300000	14000	40000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Cyclohexane	16000	550	1600	ppbv		
VA2336	REG	3/18/2013	EPA TO15	Cyclohexane	15000	550	1600	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Cyclohexane	88000	5500	16000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Cyclohexane	7400	550	1600	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Cyclohexane	3600	550	1600	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Cyclohexane</b>	<b>48</b>	<b>0.68</b>	<b>2</b>	<b>ppbv</b>		
VA2402	REG	3/18/2013	EPA TO15	Cyclohexane	2500	550	1600	ppbv		
VA2403	REG	3/18/2013	EPA TO15	Cyclohexane	1700	550	1600	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Cyclohexane	570000	14000	40000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Cyclohexane	14000	550	1600	ppbv		
VA2406	FD	3/18/2013	EPA TO15	Cyclohexane	14000	550	1600	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Cyclohexane	87000	5500	16000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Cyclohexane	2700	270	800	ppbv		
VA2474	REG	3/18/2013	EPA TO15	Cyclohexane	4000	270	800	ppbv		
VA2475	REG	3/18/2013	EPA TO15	Cyclohexane	1400	270	800	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Cyclohexane	1600	270	800	ppbv		
VA2477	FD	3/18/2013	EPA TO15	Cyclohexane	1800	270	800	ppbv		
VA2323	REG	3/19/2013	EPA TO15	Cyclohexane	15000	270	800	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Cyclohexane	7200	270	800	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Cyclohexane	7700	270	800	ppbv		
VA2326	REG	3/19/2013	EPA TO15	Cyclohexane	28000	1100	3200	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Cyclohexane	29000	1100	3200	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Cyclohexane	5200	550	1600	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Cyclohexane	990000	27000	80000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Cyclohexane	140000	14000	40000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Cyclohexane	800000	27000	80000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Ethyl acetate</b>	<b>1.7</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	6.3	40	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2332	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	31	200	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	1300	8000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	3100	20000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2336	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	1300	8000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2402	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2403	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	3100	20000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		

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**Detected Trip Blank Results and Associated Sample Results**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Ethyl acetate</b>	<b>1.7</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2406	FD	3/18/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	1300	8000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2474	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	6.3	40	ppbv		
VA2475	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	6.3	40	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2477	FD	3/18/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2323	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2326	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	3100	20000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	3100	20000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	6300	40000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Ethylbenzene</b>	<b>1.6</b>	<b>0.74</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2285	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Ethylbenzene	60	29	80	ppbv	J	Tr
VA2331	REG	3/18/2013	EPA TO15	Ethylbenzene	980	590	1600	ppbv	J	Tr
VA2332	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	150	400	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	5900	16000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	15000	40000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2336	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	5900	16000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Ethylbenzene	1000	590	1600	ppbv	J	Tr
VA2402	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2403	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	15000	40000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Ethylbenzene	1400	590	1600	ppbv	J	Tr
VA2406	FD	3/18/2013	EPA TO15	Ethylbenzene	1100	590	1600	ppbv	J	Tr
VA2407	REG	3/18/2013	EPA TO15	Ethylbenzene	ND	5900	16000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Ethylbenzene	780	290	800	ppbv	J	Tr
VA2474	REG	3/18/2013	EPA TO15	Ethylbenzene	910	29	80	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Ethylbenzene</b>	<b>1.6</b>	<b>0.74</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2475	REG	3/18/2013	EPA TO15	Ethylbenzene	790	29	80	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Ethylbenzene	520	290	800	ppbv	J	Tr
VA2477	FD	3/18/2013	EPA TO15	Ethylbenzene	670	290	800	ppbv	J	Tr
VA2323	REG	3/19/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2326	REG	3/19/2013	EPA TO15	Ethylbenzene	1200	290	800	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Ethylbenzene	1100	290	800	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Ethylbenzene	ND	15000	40000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Ethylbenzene	ND	15000	40000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Ethylbenzene	ND	29000	80000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Heptane</b>	<b>35</b>	<b>0.25</b>	<b>1</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	Heptane	550	100	400	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Heptane	1300	100	400	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Heptane	430	10	40	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Heptane	19000	200	800	ppbv		
VA2332	REG	3/18/2013	EPA TO15	Heptane	290	50	200	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Heptane	64000	2000	8000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Heptane	140000	5000	20000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Heptane	2600	200	800	ppbv		
VA2336	REG	3/18/2013	EPA TO15	Heptane	2400	200	800	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Heptane	28000	2000	8000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Heptane	6000	200	800	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Heptane	4000	200	800	ppbv		
VA2402	REG	3/18/2013	EPA TO15	Heptane	2600	200	800	ppbv		
VA2403	REG	3/18/2013	EPA TO15	Heptane	1600	200	800	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Heptane	240000	5000	20000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Heptane	20000	200	800	ppbv		
VA2406	FD	3/18/2013	EPA TO15	Heptane	19000	200	800	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Heptane	68000	2000	8000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Heptane	3700	100	400	ppbv		
VA2474	REG	3/18/2013	EPA TO15	Heptane	2900	100	400	ppbv		
VA2475	REG	3/18/2013	EPA TO15	Heptane	1800	100	400	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Heptane	1900	100	400	ppbv		
VA2477	FD	3/18/2013	EPA TO15	Heptane	2200	100	400	ppbv		
VA2323	REG	3/19/2013	EPA TO15	Heptane	19000	100	400	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Heptane</b>	<b>35</b>	<b>0.25</b>	<b>1</b>	<b>ppbv</b>		
VA2324	REG	3/19/2013	EPA TO15	Heptane	11000	100	400	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Heptane	8600	100	400	ppbv		
VA2326	REG	3/19/2013	EPA TO15	Heptane	23000	400	1600	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Heptane	25000	400	1600	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Heptane	4600	200	800	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Heptane	630000	5000	20000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Heptane	120000	5000	20000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Heptane	420000	10000	40000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>m,p-Xylene</b>	<b>3.3</b>	<b>0.52</b>	<b>2</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	m,p-Xylene	ND	210	800	ppbv		
VA2286	REG	3/18/2013	EPA TO15	m,p-Xylene	ND	210	800	ppbv		
VA2287	REG	3/18/2013	EPA TO15	m,p-Xylene	220	21	80	ppbv		
VA2331	REG	3/18/2013	EPA TO15	m,p-Xylene	2400	420	1600	ppbv		
VA2332	REG	3/18/2013	EPA TO15	m,p-Xylene	300	100	400	ppbv	J	Tr
VA2333	REG	3/18/2013	EPA TO15	m,p-Xylene	8800	4200	16000	ppbv	J	Tr
VA2334	REG	3/18/2013	EPA TO15	m,p-Xylene	ND	10000	40000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2336	REG	3/18/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2399	REG	3/18/2013	EPA TO15	m,p-Xylene	ND	4200	16000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	m,p-Xylene	1200	420	1600	ppbv	J	Tr
VA2401	REG	3/18/2013	EPA TO15	m,p-Xylene	2500	420	1600	ppbv		
VA2402	REG	3/18/2013	EPA TO15	m,p-Xylene	1600	420	1600	ppbv		
VA2403	REG	3/18/2013	EPA TO15	m,p-Xylene	1100	420	1600	ppbv	J	Tr
VA2404	REG	3/18/2013	EPA TO15	m,p-Xylene	ND	10000	40000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	m,p-Xylene	6500	420	1600	ppbv		
VA2406	FD	3/18/2013	EPA TO15	m,p-Xylene	4500	420	1600	ppbv		
VA2407	REG	3/18/2013	EPA TO15	m,p-Xylene	13000	4200	16000	ppbv	J	Tr
VA2473	REG	3/18/2013	EPA TO15	m,p-Xylene	2500	210	800	ppbv		
VA2474	REG	3/18/2013	EPA TO15	m,p-Xylene	2600	21	80	ppbv		
VA2475	REG	3/18/2013	EPA TO15	m,p-Xylene	2400	21	80	ppbv		
VA2476	REG	3/18/2013	EPA TO15	m,p-Xylene	1700	210	800	ppbv		
VA2477	FD	3/18/2013	EPA TO15	m,p-Xylene	2200	210	800	ppbv		
VA2323	REG	3/19/2013	EPA TO15	m,p-Xylene	1600	210	800	ppbv		
VA2324	REG	3/19/2013	EPA TO15	m,p-Xylene	1300	210	800	ppbv		
VA2325	REG	3/19/2013	EPA TO15	m,p-Xylene	1000	210	800	ppbv		
VA2326	REG	3/19/2013	EPA TO15	m,p-Xylene	4800	210	800	ppbv		
VA2327	FD	3/19/2013	EPA TO15	m,p-Xylene	4100	210	800	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>m,p-Xylene</b>	<b>3.3</b>	<b>0.52</b>	<b>2</b>	<b>ppbv</b>		
VA2328	REG	3/19/2013	EPA TO15	m,p-Xylene	1200	420	1600	ppbv	J	Tr
VA2329	REG	3/19/2013	EPA TO15	m,p-Xylene	36000	10000	40000	ppbv	J	Tr
VA2478	REG	3/19/2013	EPA TO15	m,p-Xylene	ND	10000	40000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	m,p-Xylene	ND	21000	80000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Methylene chloride</b>	<b>2.2</b>	<b>2.1</b>	<b>5</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2285	REG	3/18/2013	EPA TO15	Methylene chloride	ND	830	2000	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Methylene chloride	1200	830	2000	ppbv	J	Tr
VA2287	REG	3/18/2013	EPA TO15	Methylene chloride	ND	83	200	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2332	REG	3/18/2013	EPA TO15	Methylene chloride	ND	420	1000	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Methylene chloride	ND	17000	40000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Methylene chloride	ND	42000	100000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2336	REG	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Methylene chloride	ND	17000	40000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2402	REG	3/18/2013	EPA TO15	Methylene chloride	1800	1700	4000	ppbv	J	Tr
VA2403	REG	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Methylene chloride	ND	42000	100000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2406	FD	3/18/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Methylene chloride	ND	17000	40000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Methylene chloride	870	830	2000	ppbv	J	Tr
VA2474	REG	3/18/2013	EPA TO15	Methylene chloride	ND	83	200	ppbv		
VA2475	REG	3/18/2013	EPA TO15	Methylene chloride	ND	83	200	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Methylene chloride	1100	830	2000	ppbv	J	Tr
VA2477	FD	3/18/2013	EPA TO15	Methylene chloride	1400	830	2000	ppbv	J	Tr
VA2323	REG	3/19/2013	EPA TO15	Methylene chloride	ND	830	2000	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Methylene chloride	880	830	2000	ppbv	J	Tr
VA2325	REG	3/19/2013	EPA TO15	Methylene chloride	1600	830	2000	ppbv	J	Tr
VA2326	REG	3/19/2013	EPA TO15	Methylene chloride	940	830	2000	ppbv	J	Tr
VA2327	FD	3/19/2013	EPA TO15	Methylene chloride	1500	830	2000	ppbv	J	Tr
VA2328	REG	3/19/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Methylene chloride	ND	42000	100000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Methylene chloride	ND	42000	100000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Methylene chloride	ND	83000	200000	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>n-Hexane</b>	<b>25</b>	<b>0.69</b>	<b>2</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	n-Hexane	520	280	800	ppbv	J	Tr
VA2286	REG	3/18/2013	EPA TO15	n-Hexane	5500	280	800	ppbv		
VA2287	REG	3/18/2013	EPA TO15	n-Hexane	230	28	80	ppbv		
VA2331	REG	3/18/2013	EPA TO15	n-Hexane	23000	550	1600	ppbv		
VA2332	REG	3/18/2013	EPA TO15	n-Hexane	470	140	400	ppbv		
VA2333	REG	3/18/2013	EPA TO15	n-Hexane	130000	5500	16000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	n-Hexane	560000	14000	40000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	n-Hexane	3100	550	1600	ppbv		
VA2336	REG	3/18/2013	EPA TO15	n-Hexane	2600	550	1600	ppbv		
VA2399	REG	3/18/2013	EPA TO15	n-Hexane	86000	5500	16000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	n-Hexane	4400	550	1600	ppbv		
VA2401	REG	3/18/2013	EPA TO15	n-Hexane	2500	550	1600	ppbv		
VA2402	REG	3/18/2013	EPA TO15	n-Hexane	2200	550	1600	ppbv		
VA2403	REG	3/18/2013	EPA TO15	n-Hexane	980	550	1600	ppbv	J	Tr
VA2404	REG	3/18/2013	EPA TO15	n-Hexane	500000	14000	40000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	n-Hexane	7200	550	1600	ppbv		
VA2406	FD	3/18/2013	EPA TO15	n-Hexane	7200	550	1600	ppbv		
VA2407	REG	3/18/2013	EPA TO15	n-Hexane	60000	5500	16000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	n-Hexane	2200	280	800	ppbv		
VA2474	REG	3/18/2013	EPA TO15	n-Hexane	2600	280	800	ppbv		
VA2475	REG	3/18/2013	EPA TO15	n-Hexane	1100	28	80	ppbv		
VA2476	REG	3/18/2013	EPA TO15	n-Hexane	1000	280	800	ppbv		
VA2477	FD	3/18/2013	EPA TO15	n-Hexane	1500	280	800	ppbv		
VA2323	REG	3/19/2013	EPA TO15	n-Hexane	12000	280	800	ppbv		
VA2324	REG	3/19/2013	EPA TO15	n-Hexane	5800	280	800	ppbv		
VA2325	REG	3/19/2013	EPA TO15	n-Hexane	6200	280	800	ppbv		
VA2326	REG	3/19/2013	EPA TO15	n-Hexane	16000	280	800	ppbv		
VA2327	FD	3/19/2013	EPA TO15	n-Hexane	17000	1100	3200	ppbv		
VA2328	REG	3/19/2013	EPA TO15	n-Hexane	4500	550	1600	ppbv		
VA2329	REG	3/19/2013	EPA TO15	n-Hexane	1000000	28000	80000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	n-Hexane	61000	14000	40000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	n-Hexane	710000	28000	80000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>o-Xylene</b>	<b>1</b>	<b>0.26</b>	<b>1</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2286	REG	3/18/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2287	REG	3/18/2013	EPA TO15	o-Xylene	82	10	40	ppbv		
VA2331	REG	3/18/2013	EPA TO15	o-Xylene	970	210	800	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>o-Xylene</b>	<b>1</b>	<b>0.26</b>	<b>1</b>	<b>ppbv</b>		
VA2332	REG	3/18/2013	EPA TO15	o-Xylene	ND	52	200	ppbv		
VA2333	REG	3/18/2013	EPA TO15	o-Xylene	ND	2100	8000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	o-Xylene	ND	5200	20000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2336	REG	3/18/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2399	REG	3/18/2013	EPA TO15	o-Xylene	ND	2100	8000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2401	REG	3/18/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2402	REG	3/18/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2403	REG	3/18/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2404	REG	3/18/2013	EPA TO15	o-Xylene	ND	5200	20000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	o-Xylene	2100	210	800	ppbv		
VA2406	FD	3/18/2013	EPA TO15	o-Xylene	1400	210	800	ppbv		
VA2407	REG	3/18/2013	EPA TO15	o-Xylene	ND	2100	8000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	o-Xylene	720	100	400	ppbv		
VA2474	REG	3/18/2013	EPA TO15	o-Xylene	880	10	40	ppbv		
VA2475	REG	3/18/2013	EPA TO15	o-Xylene	760	10	40	ppbv		
VA2476	REG	3/18/2013	EPA TO15	o-Xylene	510	100	400	ppbv		
VA2477	FD	3/18/2013	EPA TO15	o-Xylene	660	100	400	ppbv		
VA2323	REG	3/19/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2324	REG	3/19/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2325	REG	3/19/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2326	REG	3/19/2013	EPA TO15	o-Xylene	1400	100	400	ppbv		
VA2327	FD	3/19/2013	EPA TO15	o-Xylene	1100	100	400	ppbv		
VA2328	REG	3/19/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2329	REG	3/19/2013	EPA TO15	o-Xylene	ND	5200	20000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	o-Xylene	ND	5200	20000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	o-Xylene	ND	10000	40000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Toluene</b>	<b>36</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	Toluene	1000	63	400	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Toluene	3200	63	400	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Toluene	1500	6.3	40	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Toluene	20000	130	800	ppbv		
VA2332	REG	3/18/2013	EPA TO15	Toluene	450	32	200	ppbv		
VA2333	REG	3/18/2013	EPA TO15	Toluene	37000	1300	8000	ppbv		
VA2334	REG	3/18/2013	EPA TO15	Toluene	57000	3200	20000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Toluene	2600	130	800	ppbv		



**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Toluene</b>	<b>36</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2336	REG	3/18/2013	EPA TO15	Toluene	2600	130	800	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Toluene	180000	1300	8000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Toluene	13000	130	800	ppbv		
VA2401	REG	3/18/2013	EPA TO15	Toluene	20000	130	800	ppbv		
VA2402	REG	3/18/2013	EPA TO15	Toluene	13000	130	800	ppbv		
VA2403	REG	3/18/2013	EPA TO15	Toluene	7900	130	800	ppbv		
VA2404	REG	3/18/2013	EPA TO15	Toluene	150000	3200	20000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Toluene	15000	130	800	ppbv		
VA2406	FD	3/18/2013	EPA TO15	Toluene	15000	130	800	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Toluene	120000	1300	8000	ppbv		
VA2473	REG	3/18/2013	EPA TO15	Toluene	14000	63	400	ppbv		
VA2474	REG	3/18/2013	EPA TO15	Toluene	9800	63	400	ppbv		
VA2475	REG	3/18/2013	EPA TO15	Toluene	7200	63	400	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Toluene	7500	63	400	ppbv		
VA2477	FD	3/18/2013	EPA TO15	Toluene	9200	63	400	ppbv		
VA2323	REG	3/19/2013	EPA TO15	Toluene	20000	130	800	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Toluene	15000	63	400	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Toluene	11000	63	400	ppbv		
VA2326	REG	3/19/2013	EPA TO15	Toluene	32000	250	1600	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Toluene	31000	250	1600	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Toluene	4300	130	800	ppbv		
VA2329	REG	3/19/2013	EPA TO15	Toluene	320000	3200	20000	ppbv		
VA2478	REG	3/19/2013	EPA TO15	Toluene	110000	3200	20000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Toluene	240000	6300	40000	ppbv		
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Xylenes, Total</b>	<b>4.3</b>	<b>0.78</b>	<b>3</b>	<b>ppbv</b>		
VA2285	REG	3/18/2013	EPA TO15	Xylenes, Total	ND	310	1200	ppbv		
VA2286	REG	3/18/2013	EPA TO15	Xylenes, Total	ND	310	1200	ppbv		
VA2287	REG	3/18/2013	EPA TO15	Xylenes, Total	300	31	120	ppbv		
VA2331	REG	3/18/2013	EPA TO15	Xylenes, Total	3400	630	2400	ppbv		
VA2332	REG	3/18/2013	EPA TO15	Xylenes, Total	300	160	600	ppbv	J	Tr
VA2333	REG	3/18/2013	EPA TO15	Xylenes, Total	8800	6300	24000	ppbv	J	Tr
VA2334	REG	3/18/2013	EPA TO15	Xylenes, Total	ND	16000	60000	ppbv		
VA2335	REG	3/18/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2336	REG	3/18/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2399	REG	3/18/2013	EPA TO15	Xylenes, Total	ND	6300	24000	ppbv		
VA2400	REG	3/18/2013	EPA TO15	Xylenes, Total	1200	630	2400	ppbv	J	Tr
VA2401	REG	3/18/2013	EPA TO15	Xylenes, Total	2500	630	2400	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8127-TB</b>	<b>TB</b>	<b>3/18/2013</b>	<b>EPA TO15</b>	<b>Xylenes, Total</b>	<b>4.3</b>	<b>0.78</b>	<b>3</b>	<b>ppbv</b>		
VA2402	REG	3/18/2013	EPA TO15	Xylenes, Total	1600	630	2400	ppbv	J	Tr
VA2403	REG	3/18/2013	EPA TO15	Xylenes, Total	1100	630	2400	ppbv	J	Tr
VA2404	REG	3/18/2013	EPA TO15	Xylenes, Total	ND	16000	60000	ppbv		
VA2405	REG	3/18/2013	EPA TO15	Xylenes, Total	8600	630	2400	ppbv		
VA2406	FD	3/18/2013	EPA TO15	Xylenes, Total	6000	630	2400	ppbv		
VA2407	REG	3/18/2013	EPA TO15	Xylenes, Total	13000	6300	24000	ppbv	J	Tr
VA2473	REG	3/18/2013	EPA TO15	Xylenes, Total	3200	310	1200	ppbv		
VA2474	REG	3/18/2013	EPA TO15	Xylenes, Total	3500	31	120	ppbv		
VA2475	REG	3/18/2013	EPA TO15	Xylenes, Total	3100	31	120	ppbv		
VA2476	REG	3/18/2013	EPA TO15	Xylenes, Total	2200	310	1200	ppbv		
VA2477	FD	3/18/2013	EPA TO15	Xylenes, Total	2900	310	1200	ppbv		
VA2323	REG	3/19/2013	EPA TO15	Xylenes, Total	1600	310	1200	ppbv		
VA2324	REG	3/19/2013	EPA TO15	Xylenes, Total	1300	310	1200	ppbv		
VA2325	REG	3/19/2013	EPA TO15	Xylenes, Total	1000	310	1200	ppbv	J	Tr
VA2326	REG	3/19/2013	EPA TO15	Xylenes, Total	6200	310	1200	ppbv		
VA2327	FD	3/19/2013	EPA TO15	Xylenes, Total	5200	310	1200	ppbv		
VA2328	REG	3/19/2013	EPA TO15	Xylenes, Total	1200	630	2400	ppbv	J	Tr
VA2329	REG	3/19/2013	EPA TO15	Xylenes, Total	36000	16000	60000	ppbv	J	Tr
VA2478	REG	3/19/2013	EPA TO15	Xylenes, Total	ND	16000	60000	ppbv		
VA2479	REG	3/19/2013	EPA TO15	Xylenes, Total	ND	31000	120000	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>2-Butanone</b>	<b>8.5</b>	<b>0.29</b>	<b>1</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	2-Butanone	ND	11	40	ppbv		
VA2330	REG	3/20/2013	EPA TO15	2-Butanone	ND	11	40	ppbv		
VA2536	REG	3/20/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2538	REG	3/20/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA9105	REG	3/20/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	2-Butanone	ND	23	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2381	REG	3/21/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2384	FD	3/21/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2385	REG	3/21/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
VA2386	REG	3/21/2013	EPA TO15	2-Butanone	ND	230	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	2-Butanone	ND	2300	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>2-Butanone</b>	<b>8.5</b>	<b>0.29</b>	<b>1</b>	<b>ppbv</b>		
VA2534	REG	3/21/2013	EPA TO15	2-Butanone	110	11	40	ppbv		
VA2535	REG	3/21/2013	EPA TO15	2-Butanone	62	11	40	ppbv		
VA2537	REG	3/21/2013	EPA TO15	2-Butanone	ND	110	400	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Acetone</b>	<b>29</b>	<b>0.43</b>	<b>1</b>	<b>ppbv</b>	<b>J</b>	<b>D1</b>
VA2374R	REG	3/19/2013	EPA TO15	Acetone	66	17	40	ppbv	U	K3
VA2330	REG	3/20/2013	EPA TO15	Acetone	100	17	40	ppbv	U	K3
VA2536	REG	3/20/2013	EPA TO15	Acetone	1200	170	400	ppbv	J	D1
VA2538	REG	3/20/2013	EPA TO15	Acetone	920	340	800	ppbv	J	D1
VA9105	REG	3/20/2013	EPA TO15	Acetone	ND	340	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Acetone	1500	170	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Acetone	100	34	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Acetone	2600	340	800	ppbv	J	D1
VA2381	REG	3/21/2013	EPA TO15	Acetone	960	170	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Acetone	420	170	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Acetone	3200	170	400	ppbv	J	D1
VA2384	FD	3/21/2013	EPA TO15	Acetone	1200	170	400	ppbv	J	D1
VA2385	REG	3/21/2013	EPA TO15	Acetone	740	170	400	ppbv		
VA2386	REG	3/21/2013	EPA TO15	Acetone	990	340	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Acetone	ND	3400	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Acetone	1800	170	400	ppbv	J	D1
VA2534	REG	3/21/2013	EPA TO15	Acetone	440	17	40	ppbv	J	D1
VA2535	REG	3/21/2013	EPA TO15	Acetone	220	17	40	ppbv	UJ	D1K3
VA2537	REG	3/21/2013	EPA TO15	Acetone	1400	170	400	ppbv	J	D1
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Benzene</b>	<b>7.2</b>	<b>0.13</b>	<b>1</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Benzene	120	5	40	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Benzene	86	5	40	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Benzene	2300	50	400	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Benzene	3800	100	800	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Benzene	1700	100	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Benzene	2100	50	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Benzene	550	10	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Benzene	1100	100	800	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Benzene	1500	50	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Benzene	1900	50	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Benzene	1800	50	400	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Benzene	2100	50	400	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Benzene	1300	50	400	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Benzene</b>	<b>7.2</b>	<b>0.13</b>	<b>1</b>	<b>ppbv</b>		
VA2386	REG	3/21/2013	EPA TO15	Benzene	3300	100	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Benzene	140000	1000	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Benzene	1200	50	400	ppbv		
VA2534	REG	3/21/2013	EPA TO15	Benzene	1000	5	40	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Benzene	580	5	40	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Benzene	590	50	400	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Carbon disulfide</b>	<b>1.2</b>	<b>0.093</b>	<b>1</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Carbon disulfide	ND	3.7	40	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Carbon disulfide	ND	3.7	40	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Carbon disulfide	ND	74	800	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Carbon disulfide	ND	74	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Carbon disulfide	ND	7.4	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Carbon disulfide	ND	74	800	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA2386	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	74	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	740	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
VA2534	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	3.7	40	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	3.7	40	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Carbon disulfide	ND	37	400	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Cyclohexane</b>	<b>13</b>	<b>0.68</b>	<b>2</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Cyclohexane	280	27	80	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Cyclohexane	150	27	80	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Cyclohexane	6400	270	800	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Cyclohexane	9200	550	1600	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Cyclohexane	4600	550	1600	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Cyclohexane	7600	270	800	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Cyclohexane	1200	55	160	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Cyclohexane	44000	1100	3200	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Cyclohexane	1900	270	800	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Cyclohexane	2500	270	800	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Cyclohexane</b>	<b>13</b>	<b>0.68</b>	<b>2</b>	<b>ppbv</b>		
VA2383	REG	3/21/2013	EPA TO15	Cyclohexane	2400	270	800	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Cyclohexane	3000	270	800	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Cyclohexane	1800	270	800	ppbv		
VA2386	REG	3/21/2013	EPA TO15	Cyclohexane	2000	550	1600	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Cyclohexane	150000	5500	16000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Cyclohexane	2700	270	800	ppbv		
VA2534	REG	3/21/2013	EPA TO15	Cyclohexane	1100	140	400	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Cyclohexane	1800	27	80	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Cyclohexane	1900	270	800	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Ethyl acetate</b>	<b>2</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Ethyl acetate	ND	6.3	40	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Ethyl acetate	ND	6.3	40	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Ethyl acetate	ND	13	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2386	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	130	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	1300	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
VA2534	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	6.3	40	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	6.3	40	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Ethyl acetate	ND	63	400	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Ethylbenzene</b>	<b>1.8</b>	<b>0.74</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA2374R	REG	3/19/2013	EPA TO15	Ethylbenzene	110	29	80	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Ethylbenzene	85	29	80	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Ethylbenzene	930	290	800	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Ethylbenzene	870	590	1600	ppbv	J	Tr
VA9105	REG	3/20/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Ethylbenzene	180	59	160	ppbv		

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Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Ethylbenzene</b>	<b>1.8</b>	<b>0.74</b>	<b>2</b>	<b>ppbv</b>	<b>J</b>	<b>Tr</b>
VA9113	REG	3/20/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
VA2386	REG	3/21/2013	EPA TO15	Ethylbenzene	ND	590	1600	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Ethylbenzene	ND	5900	16000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Ethylbenzene	450	290	800	ppbv	J	Tr
VA2534	REG	3/21/2013	EPA TO15	Ethylbenzene	490	29	80	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Ethylbenzene	570	29	80	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Ethylbenzene	ND	290	800	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Heptane</b>	<b>12</b>	<b>0.25</b>	<b>1</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Heptane	230	10	40	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Heptane	160	10	40	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Heptane	6500	100	400	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Heptane	6400	200	800	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Heptane	4600	200	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Heptane	3800	100	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Heptane	1400	20	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Heptane	37000	200	800	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Heptane	2300	100	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Heptane	2900	100	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Heptane	3000	100	400	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Heptane	3900	100	400	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Heptane	2200	100	400	ppbv		
VA2386	REG	3/21/2013	EPA TO15	Heptane	1200	200	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Heptane	110000	2000	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Heptane	2300	100	400	ppbv		
VA2534	REG	3/21/2013	EPA TO15	Heptane	1000	50	200	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Heptane	1700	10	40	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Heptane	960	100	400	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>m,p-Xylene</b>	<b>4</b>	<b>0.52</b>	<b>2</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	m,p-Xylene	310	21	80	ppbv		
VA2330	REG	3/20/2013	EPA TO15	m,p-Xylene	270	21	80	ppbv		
VA2536	REG	3/20/2013	EPA TO15	m,p-Xylene	2400	210	800	ppbv		
VA2538	REG	3/20/2013	EPA TO15	m,p-Xylene	2500	420	1600	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>m,p-Xylene</b>	<b>4</b>	<b>0.52</b>	<b>2</b>	<b>ppbv</b>		
VA9105	REG	3/20/2013	EPA TO15	m,p-Xylene	1600	420	1600	ppbv		
VA9108	REG	3/20/2013	EPA TO15	m,p-Xylene	820	210	800	ppbv		
VA9112	REG	3/20/2013	EPA TO15	m,p-Xylene	590	42	160	ppbv		
VA9113	REG	3/20/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2381	REG	3/21/2013	EPA TO15	m,p-Xylene	670	210	800	ppbv	J	Tr
VA2382	REG	3/21/2013	EPA TO15	m,p-Xylene	830	210	800	ppbv		
VA2383	REG	3/21/2013	EPA TO15	m,p-Xylene	1100	210	800	ppbv		
VA2384	FD	3/21/2013	EPA TO15	m,p-Xylene	1300	210	800	ppbv		
VA2385	REG	3/21/2013	EPA TO15	m,p-Xylene	880	210	800	ppbv		
VA2386	REG	3/21/2013	EPA TO15	m,p-Xylene	ND	420	1600	ppbv		
VA2387	REG	3/21/2013	EPA TO15	m,p-Xylene	13000	4200	16000	ppbv	J	Tr
VA2533	REG	3/21/2013	EPA TO15	m,p-Xylene	1100	210	800	ppbv		
VA2534	REG	3/21/2013	EPA TO15	m,p-Xylene	1300	21	80	ppbv		
VA2535	REG	3/21/2013	EPA TO15	m,p-Xylene	1600	21	80	ppbv		
VA2537	REG	3/21/2013	EPA TO15	m,p-Xylene	960	210	800	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Methylene chloride</b>	<b>11</b>	<b>2.1</b>	<b>5</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Methylene chloride	ND	83	200	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Methylene chloride	ND	83	200	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Methylene chloride	ND	830	2000	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Methylene chloride	1800	1700	4000	ppbv	J	Tr
VA9108	REG	3/20/2013	EPA TO15	Methylene chloride	ND	830	2000	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Methylene chloride	ND	170	400	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Methylene chloride	ND	1700	4000	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Methylene chloride	1200	830	2000	ppbv	J	Tr
VA2382	REG	3/21/2013	EPA TO15	Methylene chloride	ND	830	2000	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Methylene chloride	2000	830	2000	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Methylene chloride	2000	830	2000	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Methylene chloride	1100	830	2000	ppbv	J	Tr
VA2386	REG	3/21/2013	EPA TO15	Methylene chloride	1700	1700	4000	ppbv	J	Tr
VA2387	REG	3/21/2013	EPA TO15	Methylene chloride	ND	17000	40000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Methylene chloride	970	830	2000	ppbv	J	Tr
VA2534	REG	3/21/2013	EPA TO15	Methylene chloride	ND	83	200	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Methylene chloride	ND	83	200	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Methylene chloride	1500	830	2000	ppbv	J	Tr
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>n-Hexane</b>	<b>6.6</b>	<b>0.69</b>	<b>2</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	n-Hexane	150	28	80	ppbv		

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>n-Hexane</b>	<b>6.6</b>	<b>0.69</b>	<b>2</b>	<b>ppbv</b>		
VA2330	REG	3/20/2013	EPA TO15	n-Hexane	110	28	80	ppbv		
VA2536	REG	3/20/2013	EPA TO15	n-Hexane	3100	280	800	ppbv		
VA2538	REG	3/20/2013	EPA TO15	n-Hexane	4000	550	1600	ppbv		
VA9105	REG	3/20/2013	EPA TO15	n-Hexane	2500	550	1600	ppbv		
VA9108	REG	3/20/2013	EPA TO15	n-Hexane	6400	280	800	ppbv		
VA9112	REG	3/20/2013	EPA TO15	n-Hexane	680	55	160	ppbv		
VA9113	REG	3/20/2013	EPA TO15	n-Hexane	43000	1100	3200	ppbv		
VA2381	REG	3/21/2013	EPA TO15	n-Hexane	1600	280	800	ppbv		
VA2382	REG	3/21/2013	EPA TO15	n-Hexane	1800	280	800	ppbv		
VA2383	REG	3/21/2013	EPA TO15	n-Hexane	1900	280	800	ppbv		
VA2384	FD	3/21/2013	EPA TO15	n-Hexane	1800	280	800	ppbv		
VA2385	REG	3/21/2013	EPA TO15	n-Hexane	1400	280	800	ppbv		
VA2386	REG	3/21/2013	EPA TO15	n-Hexane	1900	550	1600	ppbv		
VA2387	REG	3/21/2013	EPA TO15	n-Hexane	110000	5500	16000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	n-Hexane	1500	280	800	ppbv		
VA2534	REG	3/21/2013	EPA TO15	n-Hexane	1300	28	80	ppbv		
VA2535	REG	3/21/2013	EPA TO15	n-Hexane	700	28	80	ppbv		
VA2537	REG	3/21/2013	EPA TO15	n-Hexane	1300	280	800	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>o-Xylene</b>	<b>1.3</b>	<b>0.26</b>	<b>1</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	o-Xylene	110	10	40	ppbv		
VA2330	REG	3/20/2013	EPA TO15	o-Xylene	100	10	40	ppbv		
VA2536	REG	3/20/2013	EPA TO15	o-Xylene	810	100	400	ppbv		
VA2538	REG	3/20/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA9105	REG	3/20/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	o-Xylene	170	21	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2381	REG	3/21/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2384	FD	3/21/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2385	REG	3/21/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2386	REG	3/21/2013	EPA TO15	o-Xylene	ND	210	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	o-Xylene	ND	2100	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
VA2534	REG	3/21/2013	EPA TO15	o-Xylene	440	10	40	ppbv		
VA2535	REG	3/21/2013	EPA TO15	o-Xylene	580	10	40	ppbv		



**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>o-Xylene</b>	<b>1.3</b>	<b>0.26</b>	<b>1</b>	<b>ppbv</b>		
VA2537	REG	3/21/2013	EPA TO15	o-Xylene	ND	100	400	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Toluene</b>	<b>33</b>	<b>0.16</b>	<b>1</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Toluene	580	6.3	40	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Toluene	350	6.3	40	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Toluene	10000	63	400	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Toluene	10000	130	800	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Toluene	7600	130	800	ppbv		
VA9108	REG	3/20/2013	EPA TO15	Toluene	4500	63	400	ppbv		
VA9112	REG	3/20/2013	EPA TO15	Toluene	2600	13	80	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Toluene	1500	130	800	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Toluene	4500	63	400	ppbv		
VA2382	REG	3/21/2013	EPA TO15	Toluene	5500	63	400	ppbv		
VA2383	REG	3/21/2013	EPA TO15	Toluene	6700	63	400	ppbv		
VA2384	FD	3/21/2013	EPA TO15	Toluene	8300	63	400	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Toluene	4900	63	400	ppbv		
VA2386	REG	3/21/2013	EPA TO15	Toluene	2900	130	800	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Toluene	190000	1300	8000	ppbv		
VA2533	REG	3/21/2013	EPA TO15	Toluene	4500	63	400	ppbv		
VA2534	REG	3/21/2013	EPA TO15	Toluene	1800	32	200	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Toluene	2300	63	400	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Toluene	2200	63	400	ppbv		
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Xylenes, Total</b>	<b>5.4</b>	<b>0.78</b>	<b>3</b>	<b>ppbv</b>		
VA2374R	REG	3/19/2013	EPA TO15	Xylenes, Total	420	31	120	ppbv		
VA2330	REG	3/20/2013	EPA TO15	Xylenes, Total	370	31	120	ppbv		
VA2536	REG	3/20/2013	EPA TO15	Xylenes, Total	3200	310	1200	ppbv		
VA2538	REG	3/20/2013	EPA TO15	Xylenes, Total	2500	630	2400	ppbv		
VA9105	REG	3/20/2013	EPA TO15	Xylenes, Total	1600	630	2400	ppbv	J	Tr
VA9108	REG	3/20/2013	EPA TO15	Xylenes, Total	820	310	1200	ppbv	J	Tr
VA9112	REG	3/20/2013	EPA TO15	Xylenes, Total	760	63	240	ppbv		
VA9113	REG	3/20/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2381	REG	3/21/2013	EPA TO15	Xylenes, Total	670	310	1200	ppbv	J	Tr
VA2382	REG	3/21/2013	EPA TO15	Xylenes, Total	830	310	1200	ppbv	J	Tr
VA2383	REG	3/21/2013	EPA TO15	Xylenes, Total	1100	310	1200	ppbv	J	Tr
VA2384	FD	3/21/2013	EPA TO15	Xylenes, Total	1300	310	1200	ppbv		
VA2385	REG	3/21/2013	EPA TO15	Xylenes, Total	880	310	1200	ppbv	J	Tr
VA2386	REG	3/21/2013	EPA TO15	Xylenes, Total	ND	630	2400	ppbv		
VA2387	REG	3/21/2013	EPA TO15	Xylenes, Total	13000	6300	24000	ppbv	J	Tr

**Appendix B3 - Table 4**  
**Detected Trip Blank Results and Associated Sample Results**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Field Sample ID	Sample Type	Sample Date	Method	Analyte	Result	DL	LOQ	Units	Qualifier	Reason Code
<b>VA8128-TB</b>	<b>TB</b>	<b>3/20/2013</b>	<b>EPA TO15</b>	<b>Xylenes, Total</b>	<b>5.4</b>	<b>0.78</b>	<b>3</b>	<b>ppbv</b>		
VA2533	REG	3/21/2013	EPA TO15	Xylenes, Total	1100	310	1200	ppbv	J	Tr
VA2534	REG	3/21/2013	EPA TO15	Xylenes, Total	1800	31	120	ppbv		
VA2535	REG	3/21/2013	EPA TO15	Xylenes, Total	2200	31	120	ppbv		
VA2537	REG	3/21/2013	EPA TO15	Xylenes, Total	960	310	1200	ppbv	J	Tr

Notes: See Appendix B3 - Table 2 for definitions of Qualifiers and Reason Codes.

DL Detection Limit  
 LOQ Limit of Quantitation  
 REG Normal sample sent to the lab  
 FD Field Duplicate sample  
 TB Trip Blank  
 ND Not Detected at the LOQ  
 ppbv parts per billion volume

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106028-450</b>									
ASTM D2504	Carbon dioxide	3/19/2013	0.72	0.1	0.72	0.1	% V/V	0	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		85	0.1	84	0.1	% V/V	1.2	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dibromoethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichloropropane		ND	400	ND	400	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,3-Butadiene		ND	400	ND	400	ppbv	--	--
	1,3-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,4-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	2-Butanone		ND	400	ND	400	ppbv	--	--
	2-Hexanone		ND	400	ND	400	ppbv	--	--
	4-Methyl-2-pentanone		ND	400	ND	400	ppbv	--	--
	Acetone		2300	400	980	400	ppbv	80.5	No
	Benzene		19000	400	18000	1600	ppbv	5.4	Yes
	Benzyl chloride		ND	400	ND	400	ppbv	--	--
	Bromodichloromethane		ND	400	ND	400	ppbv	--	--
	Bromoform		ND	400	ND	400	ppbv	--	--
	Bromomethane		ND	400	ND	400	ppbv	--	--
	Carbon disulfide		ND	400	ND	400	ppbv	--	--
	Carbon tetrachloride		ND	400	ND	400	ppbv	--	--
	Chlorobenzene		ND	400	ND	400	ppbv	--	--
	Chlorodibromomethane		ND	400	ND	400	ppbv	--	--
	Chloroethane		ND	400	ND	400	ppbv	--	--
	Chloroform		ND	400	ND	400	ppbv	--	--
	Chloromethane		ND	400	ND	400	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106028-450</b>									
EPA TO15	cis-1,2-Dichloroethene	3/19/2013	ND	400	ND	400	ppbv	--	--
	cis-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Cyclohexane		28000	3200	29000	3200	ppbv	3.5	Yes
	Dichlorodifluoromethane		ND	400	ND	400	ppbv	--	--
	Ethyl acetate		ND	400	ND	400	ppbv	--	--
	Ethylbenzene		1200	800	1100	800	ppbv	8.7	Yes
	Heptane		23000	1600	25000	1600	ppbv	8.3	Yes
	Hexachlorobutadiene		ND	800	ND	800	ppbv	--	--
	m,p-Xylene		4800	800	4100	800	ppbv	15.7	Yes
	Methylene chloride		940 J	2000	1500 J	2000	ppbv	--	--
	Naphthalene		ND	400	ND	400	ppbv	--	--
	n-Hexane		16000	800	17000	3200	ppbv	6.1	Yes
	o-Xylene		1400	400	1100	400	ppbv	24	Yes
	Propylene		ND	400	ND	400	ppbv	--	--
	Styrene		ND	400	ND	400	ppbv	--	--
	tert-Butyl Methyl Ether		ND	400	ND	400	ppbv	--	--
	Tetrachloroethene		ND	400	ND	400	ppbv	--	--
	Tetrahydrofuran		ND	400	ND	400	ppbv	--	--
	Toluene		32000	1600	31000	1600	ppbv	3.2	Yes
	trans-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	trans-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Trichloroethene		ND	400	ND	400	ppbv	--	--
	Trichlorofluoromethane		ND	400	ND	400	ppbv	--	--
	Vinyl acetate		ND	400	ND	400	ppbv	--	--
	Vinyl chloride		ND	400	ND	400	ppbv	--	--
	Xylenes, Total		6200	1200	5200	1200	ppbv	17.5	Yes
MA APH	C5-C8 Aliphatic Hydrocarbons		1300000	190000	1200000	190000	ug/m3	8	Yes
	C9-C10 Aromatic Hydrocarbons		ND	210000	ND	210000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		120000 J	300000	ND	300000	ug/m3	--	--
<b>KAFB-106108-350</b>									
ASTM D2504	Carbon dioxide	2/18/2013	0.29	0.1	0.3	0.1	% V/V	3.4	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		81	0.1	81	0.1	% V/V	0	Yes
	Oxygen		21	0.1	21	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	800	ND	800	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106108-350</b>									
EPA TO15	1,1,2-Trichloroethane	2/18/2013	ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dibromoethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichloropropane		ND	800	ND	800	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,3-Butadiene		ND	800	ND	800	ppbv	--	--
	1,3-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,4-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	2-Butanone		ND	800	ND	800	ppbv	--	--
	2-Hexanone		ND	800	ND	800	ppbv	--	--
	4-Methyl-2-pentanone		ND	800	ND	800	ppbv	--	--
	Acetone		3100	800	1700	800	ppbv	58.3	No
	Benzene		7500	800	5600	800	ppbv	29	Yes
	Benzyl chloride		ND	800	ND	800	ppbv	--	--
	Bromodichloromethane		ND	800	ND	800	ppbv	--	--
	Bromoform		ND	800	ND	800	ppbv	--	--
	Bromomethane		ND	800	ND	800	ppbv	--	--
	Carbon disulfide		ND	800	ND	800	ppbv	--	--
	Carbon tetrachloride		ND	800	ND	800	ppbv	--	--
	Chlorobenzene		ND	800	ND	800	ppbv	--	--
	Chlorodibromomethane		ND	800	ND	800	ppbv	--	--
	Chloroethane		ND	800	ND	800	ppbv	--	--
	Chloroform		ND	800	ND	800	ppbv	--	--
	Chloromethane		ND	800	ND	800	ppbv	--	--
	cis-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	cis-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Cyclohexane		5700	1600	4300	1600	ppbv	28	Yes
	Dichlorodifluoromethane		ND	800	ND	800	ppbv	--	--
	Ethyl acetate		ND	800	ND	800	ppbv	--	--
	Ethylbenzene		ND	1600	ND	1600	ppbv	--	--
	Heptane		ND	800	ND	800	ppbv	--	--
	Hexachlorobutadiene		ND	1600	ND	1600	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106108-350</b>									
EPA TO15	m,p-Xylene	2/18/2013	ND	1600	ND	1600	ppbv	--	--
	Methylene chloride		2200 J	4000	ND	4000	ppbv	--	--
	Naphthalene		ND	800	ND	800	ppbv	--	--
	n-Hexane		5200	1600	3700	1600	ppbv	33.7	Yes
	o-Xylene		ND	800	ND	800	ppbv	--	--
	Propylene		ND	800	ND	800	ppbv	--	--
	Styrene		ND	800	ND	800	ppbv	--	--
	tert-Butyl Methyl Ether		ND	800	ND	800	ppbv	--	--
	Tetrachloroethene		ND	800	ND	800	ppbv	--	--
	Tetrahydrofuran		ND	800	ND	800	ppbv	--	--
	Toluene		9400	800	6200	800	ppbv	41	Yes
	trans-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	trans-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Trichloroethene		ND	800	ND	800	ppbv	--	--
	Trichlorofluoromethane		ND	800	ND	800	ppbv	--	--
	Vinyl acetate		ND	800	ND	800	ppbv	--	--
	Vinyl chloride		ND	800	ND	800	ppbv	--	--
	Xylenes, Total		ND	2400	ND	2400	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		730000	94000	610000	94000	ug/m3	17.9	Yes
	C9-C10 Aromatic Hydrocarbons		ND	110000	ND	110000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	150000	ND	150000	ug/m3	--	--
<b>KAFB-106110-050</b>									
ASTM D2504	Carbon dioxide	2/18/2013	1.3	0.1	1.3	0.1	% V/V	0	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		82	0.1	82	0.1	% V/V	0	Yes
	Oxygen		20	0.1	20	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dibromoethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dichloroethane		ND	40	ND	40	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106110-050</b>									
EPA TO15	1,2-Dichloropropane	2/18/2013	ND	40	ND	40	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,3-Butadiene		ND	40	ND	40	ppbv	--	--
	1,3-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,4-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	2-Butanone		ND	40	ND	40	ppbv	--	--
	2-Hexanone		ND	40	ND	40	ppbv	--	--
	4-Methyl-2-pentanone		ND	40	ND	40	ppbv	--	--
	Acetone		ND	40	ND	40	ppbv	--	--
	Benzene		48	40	150	40	ppbv	103	No
	Benzyl chloride		ND	40	ND	40	ppbv	--	--
	Bromodichloromethane		ND	40	ND	40	ppbv	--	--
	Bromoform		ND	40	ND	40	ppbv	--	--
	Bromomethane		ND	40	ND	40	ppbv	--	--
	Carbon disulfide		ND	40	ND	40	ppbv	--	--
	Carbon tetrachloride		ND	40	ND	40	ppbv	--	--
	Chlorobenzene		ND	40	ND	40	ppbv	--	--
	Chlorodibromomethane		ND	40	ND	40	ppbv	--	--
	Chloroethane		ND	40	ND	40	ppbv	--	--
	Chloroform		ND	40	ND	40	ppbv	--	--
	Chloromethane		ND	40	ND	40	ppbv	--	--
	cis-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	cis-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Cyclohexane		270	80	460	80	ppbv	52.1	No
	Dichlorodifluoromethane		ND	40	ND	40	ppbv	--	--
	Ethyl acetate		ND	40	ND	40	ppbv	--	--
	Ethylbenzene		ND	80	ND	80	ppbv	--	--
	Heptane		60	40	130	40	ppbv	73.7	No
	Hexachlorobutadiene		ND	80	ND	80	ppbv	--	--
	m,p-Xylene		74 J	80	130	80	ppbv	--	--
	Methylene chloride		ND	200	ND	200	ppbv	--	--
	Naphthalene		ND	40	ND	40	ppbv	--	--
	n-Hexane		ND	80	52 J	80	ppbv	--	--
	o-Xylene		48	40	74	40	ppbv	42.6	Yes
	Propylene		ND	40	ND	40	ppbv	--	--
	Styrene		ND	40	ND	40	ppbv	--	--
	tert-Butyl Methyl Ether		ND	40	ND	40	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106110-050</b>									
EPA TO15	Tetrachloroethene	2/18/2013	ND	40	ND	40	ppbv	--	--
	Tetrahydrofuran		ND	40	ND	40	ppbv	--	--
	Toluene		140	40	390	40	ppbv	94.3	No
	trans-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	trans-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Trichloroethene		ND	40	ND	40	ppbv	--	--
	Trichlorofluoromethane		ND	40	ND	40	ppbv	--	--
	Vinyl acetate		ND	40	ND	40	ppbv	--	--
	Vinyl chloride		ND	40	ND	40	ppbv	--	--
	Xylenes, Total		120	120	210	120	ppbv	54.5	No
MA APH	C5-C8 Aliphatic Hydrocarbons		42000	4700	110000	23000	ug/m3	89.5	No
	C9-C10 Aromatic Hydrocarbons		ND	5300	ND	27000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		9700	7600	5300 J	38000	ug/m3	--	--
<b>KAFB-106112-150</b>									
ASTM D2504	Carbon dioxide	2/26/2013	0.89	0.1	0.2	0.1	% V/V	126.6	No
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		86	0.1	84	0.1	% V/V	2.4	Yes
	Oxygen		19	0.1	22	0.1	% V/V	14.6	Yes
EPA TO15	1,1,1-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dibromoethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichloropropane		ND	400	ND	400	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,3-Butadiene		ND	400	ND	400	ppbv	--	--
	1,3-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,4-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	2-Butanone		ND	400	ND	400	ppbv	--	--
	2-Hexanone		ND	400	ND	400	ppbv	--	--
	4-Methyl-2-pentanone		ND	400	ND	400	ppbv	--	--



**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106112-150</b>									
EPA TO15	Acetone	2/26/2013	2900	400	2100	400	ppbv	32	Yes
	Benzene		1600	400	1900	400	ppbv	17.1	Yes
	Benzyl chloride		ND	400	ND	400	ppbv	--	--
	Bromodichloromethane		ND	400	ND	400	ppbv	--	--
	Bromoform		ND	400	ND	400	ppbv	--	--
	Bromomethane		ND	400	ND	400	ppbv	--	--
	Carbon disulfide		ND	400	ND	400	ppbv	--	--
	Carbon tetrachloride		ND	400	ND	400	ppbv	--	--
	Chlorobenzene		ND	400	ND	400	ppbv	--	--
	Chlorodibromomethane		ND	400	ND	400	ppbv	--	--
	Chloroethane		ND	400	ND	400	ppbv	--	--
	Chloroform		ND	400	ND	400	ppbv	--	--
	Chloromethane		ND	400	ND	400	ppbv	--	--
	cis-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	cis-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Cyclohexane		4500	800	4300	800	ppbv	4.5	Yes
	Dichlorodifluoromethane		ND	400	ND	400	ppbv	--	--
	Ethyl acetate		ND	400	ND	400	ppbv	--	--
	Ethylbenzene		ND	800	600 J	800	ppbv	--	--
	Heptane		3700	400	3600	400	ppbv	2.7	Yes
	Hexachlorobutadiene		ND	800	ND	800	ppbv	--	--
	m,p-Xylene		890	800	1400	800	ppbv	44.5	Yes
	Methylene chloride		3900	2000	4000	2000	ppbv	2.5	Yes
	Naphthalene		ND	400	ND	400	ppbv	--	--
	n-Hexane		2900	800	2200	800	ppbv	27.5	Yes
	o-Xylene		ND	400	460	400	ppbv	--	--
	Propylene		ND	400	ND	400	ppbv	--	--
	Styrene		ND	400	ND	400	ppbv	--	--
	tert-Butyl Methyl Ether		ND	400	ND	400	ppbv	--	--
	Tetrachloroethene		ND	400	ND	400	ppbv	--	--
	Tetrahydrofuran		ND	400	ND	400	ppbv	--	--
	Toluene		5300	400	7400	400	ppbv	33.1	Yes
	trans-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	trans-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Trichloroethene		ND	400	ND	400	ppbv	--	--
	Trichlorofluoromethane		ND	400	ND	400	ppbv	--	--
	Vinyl acetate		ND	400	ND	400	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106112-150</b>									
EPA TO15	Vinyl chloride	2/26/2013	ND	400	ND	400	ppbv	--	--
	Xylenes, Total		890 J	1200	1800	1200	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		150000	23000	180000	23000	ug/m3	18.2	Yes
	C9-C10 Aromatic Hydrocarbons		ND	27000	ND	27000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		28000 J	38000	27000 J	38000	ug/m3	--	--
<b>KAFB-106114-150</b>									
ASTM D2504	Carbon dioxide	3/21/2013	0.54	0.1	0.54	0.1	% V/V	0	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		85	0.1	85	0.1	% V/V	0	Yes
	Oxygen		21	0.1	21	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dibromoethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichloropropane		ND	400	ND	400	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,3-Butadiene		ND	400	ND	400	ppbv	--	--
	1,3-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,4-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	2-Butanone		ND	400	ND	400	ppbv	--	--
	2-Hexanone		ND	400	ND	400	ppbv	--	--
	4-Methyl-2-pentanone		ND	400	ND	400	ppbv	--	--
	Acetone		3200 J	400	1200 J	400	ppbv	90.9	No
	Benzene		1800	400	2100	400	ppbv	15.4	Yes
	Benzyl chloride		ND	400	ND	400	ppbv	--	--
	Bromodichloromethane		ND	400	ND	400	ppbv	--	--
	Bromoform		ND	400	ND	400	ppbv	--	--
	Bromomethane		ND	400	ND	400	ppbv	--	--
	Carbon disulfide		ND	400	ND	400	ppbv	--	--
	Carbon tetrachloride		ND	400	ND	400	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106114-150</b>									
EPA TO15	Chlorobenzene	3/21/2013	ND	400	ND	400	ppbv	--	--
	Chlorodibromomethane		ND	400	ND	400	ppbv	--	--
	Chloroethane		ND	400	ND	400	ppbv	--	--
	Chloroform		ND	400	ND	400	ppbv	--	--
	Chloromethane		ND	400	ND	400	ppbv	--	--
	cis-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	cis-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Cyclohexane		2400	800	3000	800	ppbv	22.2	Yes
	Dichlorodifluoromethane		ND	400	ND	400	ppbv	--	--
	Ethyl acetate		ND	400	ND	400	ppbv	--	--
	Ethylbenzene		ND	800	ND	800	ppbv	--	--
	Heptane		3000	400	3900	400	ppbv	26.1	Yes
	Hexachlorobutadiene		ND	800	ND	800	ppbv	--	--
	m,p-Xylene		1100	800	1300	800	ppbv	16.7	Yes
	Methylene chloride		2000	2000	2000	2000	ppbv	0	Yes
	Naphthalene		ND	400	ND	400	ppbv	--	--
	n-Hexane		1900	800	1800	800	ppbv	5.4	Yes
	o-Xylene		ND	400	ND	400	ppbv	--	--
	Propylene		ND	400	ND	400	ppbv	--	--
	Styrene		ND	400	ND	400	ppbv	--	--
	tert-Butyl Methyl Ether		ND	400	ND	400	ppbv	--	--
	Tetrachloroethene		ND	400	ND	400	ppbv	--	--
	Tetrahydrofuran		ND	400	ND	400	ppbv	--	--
	Toluene		6700	400	8300	400	ppbv	21.3	Yes
	trans-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	trans-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Trichloroethene		ND	400	ND	400	ppbv	--	--
	Trichlorofluoromethane		ND	400	ND	400	ppbv	--	--
	Vinyl acetate		ND	400	ND	400	ppbv	--	--
	Vinyl chloride		ND	400	ND	400	ppbv	--	--
	Xylenes, Total		1100 J	1200	1300	1200	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		160000	47000	130000	47000	ug/m3	20.7	Yes
	C9-C10 Aromatic Hydrocarbons		ND	53000	ND	53000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		19000 J	76000	38000 J	76000	ug/m3	--	--
<b>KAFB-106116-050</b>									
ASTM D2504	Carbon dioxide	3/12/2013	0.13	0.1	0.35	0.1	% V/V	91.7	No
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106116-050</b>									
ASTM D2504	Nitrogen	3/12/2013	83	0.1	83	0.1	% V/V	0	Yes
	Oxygen		23	0.1	22	0.1	% V/V	4.4	Yes
EPA TO15	1,1,1-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dibromoethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichloropropane		ND	40	ND	40	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,3-Butadiene		ND	40	ND	40	ppbv	--	--
	1,3-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,4-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	2-Butanone		ND	40	ND	40	ppbv	--	--
	2-Hexanone		ND	40	ND	40	ppbv	--	--
	4-Methyl-2-pentanone		ND	40	ND	40	ppbv	--	--
	Acetone		ND	40	57	40	ppbv	--	--
	Benzene		460	40	560	40	ppbv	19.6	Yes
	Benzyl chloride		ND	40	ND	40	ppbv	--	--
	Bromodichloromethane		ND	40	ND	40	ppbv	--	--
	Bromoform		ND	40	ND	40	ppbv	--	--
	Bromomethane		ND	40	ND	40	ppbv	--	--
	Carbon disulfide		ND	40	ND	40	ppbv	--	--
	Carbon tetrachloride		ND	40	ND	40	ppbv	--	--
	Chlorobenzene		ND	40	ND	40	ppbv	--	--
	Chlorodibromomethane		ND	40	ND	40	ppbv	--	--
	Chloroethane		ND	40	ND	40	ppbv	--	--
	Chloroform		ND	40	ND	40	ppbv	--	--
	Chloromethane		ND	40	ND	40	ppbv	--	--
	cis-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	cis-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Cyclohexane		770	80	1100	80	ppbv	35.3	Yes

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106116-050</b>									
EPA TO15	Dichlorodifluoromethane	3/12/2013	ND	40	ND	40	ppbv	--	--
	Ethyl acetate		ND	40	ND	40	ppbv	--	--
	Ethylbenzene		64 J	80	74 J	80	ppbv	--	--
	Heptane		340	40	450	40	ppbv	27.8	Yes
	Hexachlorobutadiene		ND	80	ND	80	ppbv	--	--
	m,p-Xylene		160	80	180	80	ppbv	11.8	Yes
	Methylene chloride		ND	200	ND	200	ppbv	--	--
	Naphthalene		ND	40	ND	40	ppbv	--	--
	n-Hexane		420	80	550	80	ppbv	26.8	Yes
	o-Xylene		56	40	62	40	ppbv	10.2	Yes
	Propylene		ND	40	ND	40	ppbv	--	--
	Styrene		ND	40	ND	40	ppbv	--	--
	tert-Butyl Methyl Ether		ND	40	ND	40	ppbv	--	--
	Tetrachloroethene		ND	40	ND	40	ppbv	--	--
	Tetrahydrofuran		ND	40	ND	40	ppbv	--	--
	Toluene		1200	40	1500	40	ppbv	22.2	Yes
	trans-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	trans-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Trichloroethene		ND	40	ND	40	ppbv	--	--
	Trichlorofluoromethane		ND	40	ND	40	ppbv	--	--
	Vinyl acetate		ND	40	ND	40	ppbv	--	--
	Vinyl chloride		ND	40	ND	40	ppbv	--	--
	Xylenes, Total		210	120	240	120	ppbv	13.3	Yes
MA APH	C5-C8 Aliphatic Hydrocarbons		56000	23000	71000	23000	ug/m3	23.6	Yes
	C9-C10 Aromatic Hydrocarbons		ND	27000	ND	27000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		14000 J	38000	11000 J	38000	ug/m3	--	--
<b>KAFB-106117-350</b>									
ASTM D2504	Carbon dioxide	3/18/2013	1.8	0.1	1.8	0.1	% V/V	0	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		85	0.1	85	0.1	% V/V	0	Yes
	Oxygen		20	0.1	20	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethene		ND	800	ND	800	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106117-350</b>									
EPA TO15	1,2,4-Trichlorobenzene	3/18/2013	ND	800	ND	800	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dibromoethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichloropropane		ND	800	ND	800	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,3-Butadiene		ND	800	ND	800	ppbv	--	--
	1,3-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,4-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	2-Butanone		ND	800	ND	800	ppbv	--	--
	2-Hexanone		ND	800	ND	800	ppbv	--	--
	4-Methyl-2-pentanone		ND	800	ND	800	ppbv	--	--
	Acetone		4800	800	4600	800	ppbv	4.3	Yes
	Benzene		8200	800	8200	800	ppbv	0	Yes
	Benzyl chloride		ND	800	ND	800	ppbv	--	--
	Bromodichloromethane		ND	800	ND	800	ppbv	--	--
	Bromoform		ND	800	ND	800	ppbv	--	--
	Bromomethane		ND	800	ND	800	ppbv	--	--
	Carbon disulfide		ND	800	ND	800	ppbv	--	--
	Carbon tetrachloride		ND	800	ND	800	ppbv	--	--
	Chlorobenzene		ND	800	ND	800	ppbv	--	--
	Chlorodibromomethane		ND	800	ND	800	ppbv	--	--
	Chloroethane		ND	800	ND	800	ppbv	--	--
	Chloroform		ND	800	ND	800	ppbv	--	--
	Chloromethane		ND	800	ND	800	ppbv	--	--
	cis-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	cis-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Cyclohexane		14000	1600	14000	1600	ppbv	0	Yes
	Dichlorodifluoromethane		ND	800	ND	800	ppbv	--	--
	Ethyl acetate		ND	800	ND	800	ppbv	--	--
	Ethylbenzene		1400 J	1600	1100 J	1600	ppbv	--	--
	Heptane		20000	800	19000	800	ppbv	5.1	Yes
	Hexachlorobutadiene		ND	1600	ND	1600	ppbv	--	--
	m,p-Xylene		6500	1600	4500	1600	ppbv	36.4	Yes
	Methylene chloride		ND	4000	ND	4000	ppbv	--	--
	Naphthalene		ND	800	ND	800	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106117-350</b>									
EPA TO15	n-Hexane	3/18/2013	7200	1600	7200	1600	ppbv	0	Yes
	o-Xylene		2100	800	1400	800	ppbv	40	Yes
	Propylene		ND	800	ND	800	ppbv	--	--
	Styrene		ND	800	ND	800	ppbv	--	--
	tert-Butyl Methyl Ether		ND	800	ND	800	ppbv	--	--
	Tetrachloroethene		ND	800	ND	800	ppbv	--	--
	Tetrahydrofuran		ND	800	ND	800	ppbv	--	--
	Toluene		15000	800	15000	800	ppbv	0	Yes
	trans-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	trans-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Trichloroethene		ND	800	ND	800	ppbv	--	--
	Trichlorofluoromethane		ND	800	ND	800	ppbv	--	--
	Vinyl acetate		ND	800	ND	800	ppbv	--	--
	Vinyl chloride		ND	800	ND	800	ppbv	--	--
	Xylenes, Total		8600	2400	6000	2400	ppbv	35.6	Yes
MA APH	C5-C8 Aliphatic Hydrocarbons		1300000	190000	1200000	190000	ug/m3	8	Yes
	C9-C10 Aromatic Hydrocarbons		ND	210000	ND	210000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		180000 J	300000	120000 J	300000	ug/m3	--	--
<b>KAFB-106119-350</b>									
ASTM D2504	Carbon dioxide	2/26/2013	0.69	0.1	0.71	0.1	% V/V	2.9	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		85	0.1	85	0.1	% V/V	0	Yes
	Oxygen		20	0.1	20	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dibromoethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloropropane		ND	1600	ND	1600	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,3-Butadiene		ND	1600	ND	1600	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106119-350</b>									
EPA TO15	1,3-Dichlorobenzene	2/26/2013	ND	1600	ND	1600	ppbv	--	--
	1,4-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	2-Butanone		ND	1600	ND	1600	ppbv	--	--
	2-Hexanone		ND	1600	ND	1600	ppbv	--	--
	4-Methyl-2-pentanone		ND	1600	ND	1600	ppbv	--	--
	Acetone		2400	1600	ND	1600	ppbv	--	--
	Benzene		21000	1600	19000	1600	ppbv	10	Yes
	Benzyl chloride		ND	1600	ND	1600	ppbv	--	--
	Bromodichloromethane		ND	1600	ND	1600	ppbv	--	--
	Bromoform		ND	1600	ND	1600	ppbv	--	--
	Bromomethane		ND	1600	ND	1600	ppbv	--	--
	Carbon disulfide		ND	1600	ND	1600	ppbv	--	--
	Carbon tetrachloride		ND	1600	ND	1600	ppbv	--	--
	Chlorobenzene		ND	1600	ND	1600	ppbv	--	--
	Chlorodibromomethane		ND	1600	ND	1600	ppbv	--	--
	Chloroethane		ND	1600	ND	1600	ppbv	--	--
	Chloroform		ND	1600	ND	1600	ppbv	--	--
	Chloromethane		ND	1600	ND	1600	ppbv	--	--
	cis-1,2-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	cis-1,3-dichloropropene		ND	1600	ND	1600	ppbv	--	--
	Cyclohexane		8200	3200	7800	3200	ppbv	5	Yes
	Dichlorodifluoromethane		ND	1600	ND	1600	ppbv	--	--
	Ethyl acetate		ND	1600	ND	1600	ppbv	--	--
	Ethylbenzene		ND	3200	ND	3200	ppbv	--	--
	Heptane		2300	1600	2300	1600	ppbv	0	Yes
	Hexachlorobutadiene		ND	3200	ND	3200	ppbv	--	--
	m,p-Xylene		ND	3200	ND	3200	ppbv	--	--
	Methylene chloride		ND	8000	ND	8000	ppbv	--	--
	Naphthalene		ND	1600	ND	1600	ppbv	--	--
	n-Hexane		4700	3200	3800	3200	ppbv	21.2	Yes
	o-Xylene		ND	1600	ND	1600	ppbv	--	--
	Propylene		ND	1600	ND	1600	ppbv	--	--
	Styrene		ND	1600	ND	1600	ppbv	--	--
	tert-Butyl Methyl Ether		ND	1600	ND	1600	ppbv	--	--
	Tetrachloroethene		ND	1600	ND	1600	ppbv	--	--
	Tetrahydrofuran		ND	1600	ND	1600	ppbv	--	--
	Toluene		43000	1600	38000	1600	ppbv	12.3	Yes



**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106119-350</b>									
EPA TO15	trans-1,2-Dichloroethene	2/26/2013	ND	1600	ND	1600	ppbv	--	--
	trans-1,3-dichloropropene		ND	1600	ND	1600	ppbv	--	--
	Trichloroethene		ND	1600	ND	1600	ppbv	--	--
	Trichlorofluoromethane		ND	1600	ND	1600	ppbv	--	--
	Vinyl acetate		ND	1600	ND	1600	ppbv	--	--
	Vinyl chloride		ND	1600	ND	1600	ppbv	--	--
	Xylenes, Total		ND	4800	ND	4800	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		600000	190000	430000	190000	ug/m3	33	Yes
	C9-C10 Aromatic Hydrocarbons		ND	210000	ND	210000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	300000	ND	300000	ug/m3	--	--
<b>KAFB-106121-145</b>									
ASTM D2504	Carbon dioxide	3/6/2013	0.23	0.1	0.24	0.1	% V/V	4.3	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	84	0.1	% V/V	1.2	Yes
	Oxygen		21	0.1	21	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dibromoethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichloropropane		ND	40	ND	40	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,3-Butadiene		ND	40	ND	40	ppbv	--	--
	1,3-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,4-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	2-Butanone		ND	40	ND	40	ppbv	--	--
	2-Hexanone		ND	40	ND	40	ppbv	--	--
	4-Methyl-2-pentanone		ND	40	ND	40	ppbv	--	--
	Acetone		ND	40	ND	40	ppbv	--	--
	Benzene		ND	40	ND	40	ppbv	--	--
	Benzyl chloride		ND	40	ND	40	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106121-145</b>									
EPA TO15	Bromodichloromethane	3/6/2013	ND	40	ND	40	ppbv	--	--
	Bromoform		ND	40	ND	40	ppbv	--	--
	Bromomethane		ND	40	ND	40	ppbv	--	--
	Carbon disulfide		ND	40	ND	40	ppbv	--	--
	Carbon tetrachloride		ND	40	ND	40	ppbv	--	--
	Chlorobenzene		ND	40	ND	40	ppbv	--	--
	Chlorodibromomethane		ND	40	ND	40	ppbv	--	--
	Chloroethane		ND	40	ND	40	ppbv	--	--
	Chloroform		ND	40	ND	40	ppbv	--	--
	Chloromethane		ND	40	ND	40	ppbv	--	--
	cis-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	cis-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Cyclohexane		110	80	80	80	ppbv	31.6	Yes
	Dichlorodifluoromethane		ND	40	ND	40	ppbv	--	--
	Ethyl acetate		ND	40	ND	40	ppbv	--	--
	Ethylbenzene		76 J	80	ND	80	ppbv	--	--
	Heptane		120	40	72	40	ppbv	50	Yes
	Hexachlorobutadiene		ND	80	ND	80	ppbv	--	--
	m,p-Xylene		230	80	100	80	ppbv	78.8	No
	Methylene chloride		ND	200	ND	200	ppbv	--	--
	Naphthalene		ND	40	ND	40	ppbv	--	--
	n-Hexane		ND	80	ND	80	ppbv	--	--
	o-Xylene		76	40	ND	40	ppbv	--	--
	Propylene		ND	40	ND	40	ppbv	--	--
	Styrene		ND	40	ND	40	ppbv	--	--
	tert-Butyl Methyl Ether		ND	40	ND	40	ppbv	--	--
	Tetrachloroethene		ND	40	ND	40	ppbv	--	--
	Tetrahydrofuran		ND	40	ND	40	ppbv	--	--
	Toluene		430	40	220	40	ppbv	64.6	No
	trans-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	trans-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Trichloroethene		ND	40	ND	40	ppbv	--	--
	Trichlorofluoromethane		ND	40	ND	40	ppbv	--	--
	Vinyl acetate		ND	40	ND	40	ppbv	--	--
	Vinyl chloride		ND	40	ND	40	ppbv	--	--
	Xylenes, Total		300	120	100 J	120	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		14000	4700	8800	4700	ug/m3	45.6	Yes

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106121-145</b>									
MA APH	C9-C10 Aromatic Hydrocarbons	3/6/2013	ND	5300	ND	5300	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		6800 J	7600	2400 J	7600	ug/m3	--	--
<b>KAFB-106122-350</b>									
ASTM D2504	Carbon dioxide	3/6/2013	0.4	0.1	0.32	0.1	% V/V	22.2	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		84	0.1	84	0.1	% V/V	0	Yes
	Oxygen		21	0.1	22	0.1	% V/V	4.7	Yes
EPA TO15	1,1,1-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dibromoethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichloropropane		ND	800	ND	800	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,3-Butadiene		ND	800	ND	800	ppbv	--	--
	1,3-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,4-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	2-Butanone		ND	800	ND	800	ppbv	--	--
	2-Hexanone		ND	800	ND	800	ppbv	--	--
	4-Methyl-2-pentanone		ND	800	ND	800	ppbv	--	--
	Acetone		ND	800	1900	800	ppbv	--	--
	Benzene		2000	800	3400	800	ppbv	51.9	No
	Benzyl chloride		ND	800	ND	800	ppbv	--	--
	Bromodichloromethane		ND	800	ND	800	ppbv	--	--
	Bromoform		ND	800	ND	800	ppbv	--	--
	Bromomethane		ND	800	ND	800	ppbv	--	--
	Carbon disulfide		ND	800	ND	800	ppbv	--	--
	Carbon tetrachloride		ND	800	ND	800	ppbv	--	--
	Chlorobenzene		ND	800	ND	800	ppbv	--	--
	Chlorodibromomethane		ND	800	ND	800	ppbv	--	--
	Chloroethane		ND	800	ND	800	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106122-350</b>									
EPA TO15	Chloroform	3/6/2013	ND	800	ND	800	ppbv	--	--
	Chloromethane		ND	800	ND	800	ppbv	--	--
	cis-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	cis-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Cyclohexane		9200	1600	17000	1600	ppbv	59.5	No
	Dichlorodifluoromethane		ND	800	ND	800	ppbv	--	--
	Ethyl acetate		ND	800	ND	800	ppbv	--	--
	Ethylbenzene		ND	1600	1400 J	1600	ppbv	--	--
	Heptane		5600	800	14000	800	ppbv	85.7	No
	Hexachlorobutadiene		ND	1600	ND	1600	ppbv	--	--
	m,p-Xylene		2200	1600	3600	1600	ppbv	48.3	Yes
	Methylene chloride		ND	4000	2000 J	4000	ppbv	--	--
	Naphthalene		ND	800	ND	800	ppbv	--	--
	n-Hexane		3600	1600	5800	1600	ppbv	46.8	Yes
	o-Xylene		ND	800	1100	800	ppbv	--	--
	Propylene		ND	800	ND	800	ppbv	--	--
	Styrene		ND	800	ND	800	ppbv	--	--
	tert-Butyl Methyl Ether		ND	800	ND	800	ppbv	--	--
	Tetrachloroethene		ND	800	ND	800	ppbv	--	--
	Tetrahydrofuran		ND	800	ND	800	ppbv	--	--
	Toluene		8600	800	19000	800	ppbv	75.4	No
	trans-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	trans-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Trichloroethene		ND	800	ND	800	ppbv	--	--
	Trichlorofluoromethane		ND	800	ND	800	ppbv	--	--
	Vinyl acetate		ND	800	ND	800	ppbv	--	--
	Vinyl chloride		ND	800	ND	800	ppbv	--	--
	Xylenes, Total		2200 J	2400	4800	2400	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		3500000	940000	4400000	940000	ug/m3	22.8	Yes
	C9-C10 Aromatic Hydrocarbons		ND	1100000	ND	1100000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	1500000	ND	1500000	ug/m3	--	--
<b>KAFB-106124-050</b>									
ASTM D2504	Carbon dioxide	3/7/2013	1	0.1	1.2	0.1	% V/V	18.2	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	85	0.1	% V/V	2.4	Yes
	Oxygen		21	0.1	21	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	800	ND	800	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106124-050</b>									
EPA TO15	1,1,2,2-Tetrachloroethane	3/7/2013	ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dibromoethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichloropropane		ND	800	ND	800	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,3-Butadiene		ND	800	ND	800	ppbv	--	--
	1,3-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,4-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	2-Butanone		ND	800	ND	800	ppbv	--	--
	2-Hexanone		ND	800	ND	800	ppbv	--	--
	4-Methyl-2-pentanone		ND	800	ND	800	ppbv	--	--
	Acetone		1800	800	1800	800	ppbv	0	Yes
	Benzene		1200	800	2200	800	ppbv	58.8	No
	Benzyl chloride		ND	800	ND	800	ppbv	--	--
	Bromodichloromethane		ND	800	ND	800	ppbv	--	--
	Bromoform		ND	800	ND	800	ppbv	--	--
	Bromomethane		ND	800	ND	800	ppbv	--	--
	Carbon disulfide		ND	800	ND	800	ppbv	--	--
	Carbon tetrachloride		ND	800	ND	800	ppbv	--	--
	Chlorobenzene		ND	800	ND	800	ppbv	--	--
	Chlorodibromomethane		ND	800	ND	800	ppbv	--	--
	Chloroethane		ND	800	ND	800	ppbv	--	--
	Chloroform		ND	800	ND	800	ppbv	--	--
	Chloromethane		ND	800	ND	800	ppbv	--	--
	cis-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	cis-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Cyclohexane		7700	1600	15000	1600	ppbv	64.3	No
	Dichlorodifluoromethane		ND	800	ND	800	ppbv	--	--
	Ethyl acetate		ND	800	ND	800	ppbv	--	--
	Ethylbenzene		910 J	1600	1400 J	1600	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106124-050</b>									
EPA TO15	Heptane	3/7/2013	6800	800	14000	800	ppbv	69.2	No
	Hexachlorobutadiene		ND	1600	ND	1600	ppbv	--	--
	m,p-Xylene		2400	1600	3800	1600	ppbv	45.2	Yes
	Methylene chloride		2900 J	4000	ND	4000	ppbv	--	--
	Naphthalene		ND	800	ND	800	ppbv	--	--
	n-Hexane		1600	1600	2600	1600	ppbv	47.6	Yes
	o-Xylene		830	800	1300	800	ppbv	44.1	Yes
	Propylene		ND	800	ND	800	ppbv	--	--
	Styrene		ND	800	ND	800	ppbv	--	--
	tert-Butyl Methyl Ether		ND	800	ND	800	ppbv	--	--
	Tetrachloroethene		ND	800	ND	800	ppbv	--	--
	Tetrahydrofuran		ND	800	ND	800	ppbv	--	--
	Toluene		10000	800	18000	800	ppbv	57.1	No
	trans-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	trans-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Trichloroethene		ND	800	ND	800	ppbv	--	--
	Trichlorofluoromethane		ND	800	ND	800	ppbv	--	--
	Vinyl acetate		ND	800	ND	800	ppbv	--	--
	Vinyl chloride		ND	800	ND	800	ppbv	--	--
	Xylenes, Total		3200	2400	5100	2400	ppbv	45.8	Yes
MA APH	C5-C8 Aliphatic Hydrocarbons		410000	94000	930000	94000	ug/m3	77.6	No
	C9-C10 Aromatic Hydrocarbons		ND	110000	ND	110000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		48000 J	150000	110000 J	150000	ug/m3	--	--
<b>KAFB-106126-050</b>									
ASTM D2504	Carbon dioxide	2/14/2013	1.1	0.1	0.98	0.1	% V/V	11.5	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		82	0.1	82	0.1	% V/V	0	Yes
	Oxygen		21	0.1	21	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	200	ND	200	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	200	ND	200	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	200	ND	200	ppbv	--	--
	1,1,2-Trichloroethane		ND	200	ND	200	ppbv	--	--
	1,1-Dichloroethane		ND	200	ND	200	ppbv	--	--
	1,1-Dichloroethene		ND	200	ND	200	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	200	ND	200	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	200	ND	200	ppbv	--	--
	1,2-Dibromoethane		ND	200	ND	200	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106126-050</b>									
EPA TO15	1,2-Dichlorobenzene	2/14/2013	ND	200	ND	200	ppbv	--	--
	1,2-Dichloroethane		ND	200	ND	200	ppbv	--	--
	1,2-Dichloropropane		ND	200	ND	200	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	200	ND	200	ppbv	--	--
	1,3-Butadiene		ND	200	ND	200	ppbv	--	--
	1,3-Dichlorobenzene		ND	200	ND	200	ppbv	--	--
	1,4-Dichlorobenzene		ND	200	ND	200	ppbv	--	--
	2-Butanone		ND	200	ND	200	ppbv	--	--
	2-Hexanone		ND	200	ND	200	ppbv	--	--
	4-Methyl-2-pentanone		ND	200	ND	200	ppbv	--	--
	Acetone		660	200	1400	200	ppbv	71.8	No
	Benzene		ND	200	350	200	ppbv	--	--
	Benzyl chloride		ND	200	ND	200	ppbv	--	--
	Bromodichloromethane		ND	200	ND	200	ppbv	--	--
	Bromoform		ND	200	ND	200	ppbv	--	--
	Bromomethane		ND	200	ND	200	ppbv	--	--
	Carbon disulfide		ND	200	ND	200	ppbv	--	--
	Carbon tetrachloride		ND	200	ND	200	ppbv	--	--
	Chlorobenzene		ND	200	ND	200	ppbv	--	--
	Chlorodibromomethane		ND	200	ND	200	ppbv	--	--
	Chloroethane		ND	200	ND	200	ppbv	--	--
	Chloroform		ND	200	ND	200	ppbv	--	--
	Chloromethane		ND	200	ND	200	ppbv	--	--
	cis-1,2-Dichloroethene		ND	200	ND	200	ppbv	--	--
	cis-1,3-dichloropropene		ND	200	ND	200	ppbv	--	--
	Cyclohexane		910	400	850	400	ppbv	6.8	Yes
	Dichlorodifluoromethane		ND	200	ND	200	ppbv	--	--
	Ethyl acetate		ND	200	ND	200	ppbv	--	--
	Ethylbenzene		ND	400	ND	400	ppbv	--	--
	Heptane		280	200	270	200	ppbv	3.6	Yes
	Hexachlorobutadiene		ND	400	ND	400	ppbv	--	--
	m,p-Xylene		ND	400	ND	400	ppbv	--	--
	Methylene chloride		950 J	1000	1100	1000	ppbv	--	--
	Naphthalene		ND	200	ND	200	ppbv	--	--
	n-Hexane		740	400	810	400	ppbv	9	Yes
	o-Xylene		ND	200	ND	200	ppbv	--	--
	Propylene		ND	200	ND	200	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106126-050</b>									
EPA TO15	Styrene	2/14/2013	ND	200	ND	200	ppbv	--	--
	tert-Butyl Methyl Ether		ND	200	ND	200	ppbv	--	--
	Tetrachloroethene		ND	200	ND	200	ppbv	--	--
	Tetrahydrofuran		ND	200	ND	200	ppbv	--	--
	Toluene		610	200	1100	200	ppbv	57.3	No
	trans-1,2-Dichloroethene		ND	200	ND	200	ppbv	--	--
	trans-1,3-dichloropropene		ND	200	ND	200	ppbv	--	--
	Trichloroethene		ND	200	ND	200	ppbv	--	--
	Trichlorofluoromethane		ND	200	ND	200	ppbv	--	--
	Vinyl acetate		ND	200	ND	200	ppbv	--	--
	Vinyl chloride		ND	200	ND	200	ppbv	--	--
	Xylenes, Total		ND	600	ND	600	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		220000	94000	200000	94000	ug/m3	9.5	Yes
	C9-C10 Aromatic Hydrocarbons		ND	110000	ND	110000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	150000	ND	150000	ug/m3	--	--
<b>KAFB-106128-250</b>									
ASTM D2504	Carbon dioxide	3/18/2013	2.6	0.1	2.8	0.1	% V/V	7.4	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		85	0.1	85	0.1	% V/V	0	Yes
	Oxygen		19	0.1	19	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dibromoethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichloropropane		ND	400	ND	400	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,3-Butadiene		ND	400	ND	400	ppbv	--	--
	1,3-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,4-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	2-Butanone		ND	400	ND	400	ppbv	--	--



**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106128-250</b>									
EPA TO15	2-Hexanone	3/18/2013	ND	400	ND	400	ppbv	--	--
	4-Methyl-2-pentanone		ND	400	ND	400	ppbv	--	--
	Acetone		1000	400	1100	400	ppbv	9.5	Yes
	Benzene		1700	400	1900	400	ppbv	11.1	Yes
	Benzyl chloride		ND	400	ND	400	ppbv	--	--
	Bromodichloromethane		ND	400	ND	400	ppbv	--	--
	Bromoform		ND	400	ND	400	ppbv	--	--
	Bromomethane		ND	400	ND	400	ppbv	--	--
	Carbon disulfide		ND	400	ND	400	ppbv	--	--
	Carbon tetrachloride		ND	400	ND	400	ppbv	--	--
	Chlorobenzene		ND	400	ND	400	ppbv	--	--
	Chlorodibromomethane		ND	400	ND	400	ppbv	--	--
	Chloroethane		ND	400	ND	400	ppbv	--	--
	Chloroform		ND	400	ND	400	ppbv	--	--
	Chloromethane		ND	400	ND	400	ppbv	--	--
	cis-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	cis-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Cyclohexane		1600	800	1800	800	ppbv	11.8	Yes
	Dichlorodifluoromethane		ND	400	ND	400	ppbv	--	--
	Ethyl acetate		ND	400	ND	400	ppbv	--	--
	Ethylbenzene		520 J	800	670 J	800	ppbv	--	--
	Heptane		1900	400	2200	400	ppbv	14.6	Yes
	Hexachlorobutadiene		ND	800	ND	800	ppbv	--	--
	m,p-Xylene		1700	800	2200	800	ppbv	25.6	Yes
	Methylene chloride		1100 J	2000	1400 J	2000	ppbv	--	--
	Naphthalene		ND	400	ND	400	ppbv	--	--
	n-Hexane		1000	800	1500	800	ppbv	40	Yes
	o-Xylene		510	400	660	400	ppbv	25.6	Yes
	Propylene		ND	400	ND	400	ppbv	--	--
	Styrene		ND	400	ND	400	ppbv	--	--
	tert-Butyl Methyl Ether		ND	400	ND	400	ppbv	--	--
	Tetrachloroethene		ND	400	ND	400	ppbv	--	--
	Tetrahydrofuran		ND	400	ND	400	ppbv	--	--
	Toluene		7500	400	9200	400	ppbv	20.4	Yes
	trans-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	trans-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Trichloroethene		ND	400	ND	400	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106128-250</b>									
EPA TO15	Trichlorofluoromethane	3/18/2013	ND	400	ND	400	ppbv	--	--
	Vinyl acetate		ND	400	ND	400	ppbv	--	--
	Vinyl chloride		ND	400	ND	400	ppbv	--	--
	Xylenes, Total		2200	1200	2900	1200	ppbv	27.5	Yes
MA APH	C5-C8 Aliphatic Hydrocarbons		170000	47000	180000	47000	ug/m3	5.7	Yes
	C9-C10 Aromatic Hydrocarbons		ND	53000	ND	53000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		45000 J	76000	82000	76000	ug/m3	--	--
<b>KAFB-106130-050</b>									
ASTM D2504	Carbon dioxide	2/25/2013	0.12	0.1	0.077 J	0.1	% V/V	--	--
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		82	0.1	82	0.1	% V/V	0	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dibromoethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichloropropane		ND	400	ND	400	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,3-Butadiene		ND	400	ND	400	ppbv	--	--
	1,3-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,4-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	2-Butanone		ND	400	ND	400	ppbv	--	--
	2-Hexanone		ND	400	ND	400	ppbv	--	--
	4-Methyl-2-pentanone		ND	400	ND	400	ppbv	--	--
	Acetone		2300	400	2000	400	ppbv	14	Yes
	Benzene		1700	400	2000	400	ppbv	16.2	Yes
	Benzyl chloride		ND	400	ND	400	ppbv	--	--
	Bromodichloromethane		ND	400	ND	400	ppbv	--	--
	Bromoform		ND	400	ND	400	ppbv	--	--
	Bromomethane		ND	400	ND	400	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106130-050</b>									
EPA TO15	Carbon disulfide	2/25/2013	ND	400	ND	400	ppbv	--	--
	Carbon tetrachloride		ND	400	ND	400	ppbv	--	--
	Chlorobenzene		ND	400	ND	400	ppbv	--	--
	Chlorodibromomethane		ND	400	ND	400	ppbv	--	--
	Chloroethane		ND	400	ND	400	ppbv	--	--
	Chloroform		ND	400	ND	400	ppbv	--	--
	Chloromethane		ND	400	ND	400	ppbv	--	--
	cis-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	cis-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Cyclohexane		2900	800	4400	800	ppbv	41.1	Yes
	Dichlorodifluoromethane		ND	400	ND	400	ppbv	--	--
	Ethyl acetate		ND	400	ND	400	ppbv	--	--
	Ethylbenzene		430 J	800	450 J	800	ppbv	--	--
	Heptane		2600	400	3600	400	ppbv	32.3	Yes
	Hexachlorobutadiene		ND	800	ND	800	ppbv	--	--
	m,p-Xylene		1000	800	1100	800	ppbv	9.5	Yes
	Methylene chloride		ND	2000	ND	2000	ppbv	--	--
	Naphthalene		ND	400	ND	400	ppbv	--	--
	n-Hexane		1600	800	2100	800	ppbv	27	Yes
	o-Xylene		ND	400	ND	400	ppbv	--	--
	Propylene		ND	400	ND	400	ppbv	--	--
	Styrene		ND	400	ND	400	ppbv	--	--
	tert-Butyl Methyl Ether		ND	400	ND	400	ppbv	--	--
	Tetrachloroethene		ND	400	ND	400	ppbv	--	--
	Tetrahydrofuran		ND	400	ND	400	ppbv	--	--
	Toluene		5800	400	6400	400	ppbv	9.8	Yes
	trans-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	trans-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Trichloroethene		ND	400	ND	400	ppbv	--	--
	Trichlorofluoromethane		ND	400	ND	400	ppbv	--	--
	Vinyl acetate		ND	400	ND	400	ppbv	--	--
	Vinyl chloride		ND	400	ND	400	ppbv	--	--
	Xylenes, Total		1000 J	1200	1100 J	1200	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		200000	47000	190000	47000	ug/m3	5.1	Yes
	C9-C10 Aromatic Hydrocarbons		ND	53000	ND	53000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	76000	ND	76000	ug/m3	--	--
<b>KAFB-106132-050</b>									
ASTM D2504	Carbon dioxide	2/20/2013	1.3	0.1	1.3	0.1	% V/V	0	Yes

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106132-050</b>									
ASTM D2504	Carbon Monoxide	2/20/2013	ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	84	0.1	% V/V	1.2	Yes
	Oxygen		20	0.1	20	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dibromoethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichloropropane		ND	40	ND	40	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,3-Butadiene		ND	40	ND	40	ppbv	--	--
	1,3-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,4-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	2-Butanone		ND	40	ND	40	ppbv	--	--
	2-Hexanone		ND	40	ND	40	ppbv	--	--
	4-Methyl-2-pentanone		ND	40	ND	40	ppbv	--	--
	Acetone		ND	40	ND	40	ppbv	--	--
	Benzene		62 U	40	92	40	ppbv	--	--
	Benzyl chloride		ND	40	ND	40	ppbv	--	--
	Bromodichloromethane		ND	40	ND	40	ppbv	--	--
	Bromoform		ND	40	ND	40	ppbv	--	--
	Bromomethane		ND	40	ND	40	ppbv	--	--
	Carbon disulfide		ND	40	ND	40	ppbv	--	--
	Carbon tetrachloride		ND	40	ND	40	ppbv	--	--
	Chlorobenzene		ND	40	ND	40	ppbv	--	--
	Chlorodibromomethane		ND	40	ND	40	ppbv	--	--
	Chloroethane		ND	40	ND	40	ppbv	--	--
	Chloroform		ND	40	ND	40	ppbv	--	--
	Chloromethane		ND	40	ND	40	ppbv	--	--
	cis-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106132-050</b>									
EPA TO15	cis-1,3-dichloropropene	2/20/2013	ND	40	ND	40	ppbv	--	--
	Cyclohexane		ND	80	100 U	80	ppbv	--	--
	Dichlorodifluoromethane		ND	40	ND	40	ppbv	--	--
	Ethyl acetate		ND	40	ND	40	ppbv	--	--
	Ethylbenzene		ND	80	ND	80	ppbv	--	--
	Heptane		ND	40	ND	40	ppbv	--	--
	Hexachlorobutadiene		ND	80	ND	80	ppbv	--	--
	m,p-Xylene		ND	80	ND	80	ppbv	--	--
	Methylene chloride		ND	200	ND	200	ppbv	--	--
	Naphthalene		ND	40	ND	40	ppbv	--	--
	n-Hexane		ND	80	ND	80	ppbv	--	--
	o-Xylene		ND	40	ND	40	ppbv	--	--
	Propylene		ND	40	ND	40	ppbv	--	--
	Styrene		ND	40	ND	40	ppbv	--	--
	tert-Butyl Methyl Ether		ND	40	ND	40	ppbv	--	--
	Tetrachloroethene		ND	40	ND	40	ppbv	--	--
	Tetrahydrofuran		ND	40	ND	40	ppbv	--	--
	Toluene		180	40	280	40	ppbv	43.5	Yes
	trans-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	trans-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Trichloroethene		ND	40	ND	40	ppbv	--	--
	Trichlorofluoromethane		ND	40	ND	40	ppbv	--	--
	Vinyl acetate		ND	40	ND	40	ppbv	--	--
	Vinyl chloride		ND	40	ND	40	ppbv	--	--
	Xylenes, Total		ND	120	ND	120	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		6800	4700	10000	4700	ug/m3	38.1	Yes
	C9-C10 Aromatic Hydrocarbons		ND	5300	ND	5300	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	7600	ND	7600	ug/m3	--	--
<b>KAFB-106134-025</b>									
ASTM D2504	Carbon dioxide	2/19/2013	0.16	0.1	0.15	0.1	% V/V	6.5	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	82	0.1	% V/V	1.2	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	40	ND	40	ppbv	--	--
	1,1,2-Trichloroethane		ND	40	ND	40	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106134-025</b>									
EPA TO15	1,1-Dichloroethane	2/19/2013	ND	40	ND	40	ppbv	--	--
	1,1-Dichloroethene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dibromoethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,2-Dichloroethane		ND	40	ND	40	ppbv	--	--
	1,2-Dichloropropane		ND	40	ND	40	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	40	ND	40	ppbv	--	--
	1,3-Butadiene		ND	40	ND	40	ppbv	--	--
	1,3-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	1,4-Dichlorobenzene		ND	40	ND	40	ppbv	--	--
	2-Butanone		ND	40	ND	40	ppbv	--	--
	2-Hexanone		ND	40	ND	40	ppbv	--	--
	4-Methyl-2-pentanone		ND	40	ND	40	ppbv	--	--
	Acetone		ND	40	ND	40	ppbv	--	--
	Benzene		140	40	150	40	ppbv	6.9	Yes
	Benzyl chloride		ND	40	ND	40	ppbv	--	--
	Bromodichloromethane		ND	40	ND	40	ppbv	--	--
	Bromoform		ND	40	ND	40	ppbv	--	--
	Bromomethane		ND	40	ND	40	ppbv	--	--
	Carbon disulfide		ND	40	ND	40	ppbv	--	--
	Carbon tetrachloride		ND	40	ND	40	ppbv	--	--
	Chlorobenzene		ND	40	ND	40	ppbv	--	--
	Chlorodibromomethane		ND	40	ND	40	ppbv	--	--
	Chloroethane		ND	40	ND	40	ppbv	--	--
	Chloroform		ND	40	ND	40	ppbv	--	--
	Chloromethane		ND	40	ND	40	ppbv	--	--
	cis-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	cis-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Cyclohexane		74 J	80	81	80	ppbv	--	--
	Dichlorodifluoromethane		ND	40	ND	40	ppbv	--	--
	Ethyl acetate		ND	40	ND	40	ppbv	--	--
	Ethylbenzene		ND	80	ND	80	ppbv	--	--
	Heptane		ND	40	ND	40	ppbv	--	--
	Hexachlorobutadiene		ND	80	ND	80	ppbv	--	--
	m,p-Xylene		ND	80	ND	80	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106134-025</b>									
EPA TO15	Methylene chloride	2/19/2013	ND	200	ND	200	ppbv	--	--
	Naphthalene		ND	40	ND	40	ppbv	--	--
	n-Hexane		ND	80	ND	80	ppbv	--	--
	o-Xylene		ND	40	ND	40	ppbv	--	--
	Propylene		ND	40	ND	40	ppbv	--	--
	Styrene		ND	40	ND	40	ppbv	--	--
	tert-Butyl Methyl Ether		ND	40	ND	40	ppbv	--	--
	Tetrachloroethene		ND	40	ND	40	ppbv	--	--
	Tetrahydrofuran		ND	40	ND	40	ppbv	--	--
	Toluene		400	40	420	40	ppbv	4.9	Yes
	trans-1,2-Dichloroethene		ND	40	ND	40	ppbv	--	--
	trans-1,3-dichloropropene		ND	40	ND	40	ppbv	--	--
	Trichloroethene		ND	40	ND	40	ppbv	--	--
	Trichlorofluoromethane		ND	40	ND	40	ppbv	--	--
	Vinyl acetate		ND	40	ND	40	ppbv	--	--
	Vinyl chloride		ND	40	ND	40	ppbv	--	--
	Xylenes, Total		ND	120	ND	120	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		3500	940	3800	940	ug/m3	8.2	Yes
	C9-C10 Aromatic Hydrocarbons		ND	1100	ND	1100	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	1500	ND	1500	ug/m3	--	--
<b>KAFB-106135-250</b>									
ASTM D2504	Carbon dioxide	2/21/2013	0.19	0.1	0.19	0.1	% V/V	0	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	84	0.1	% V/V	1.2	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	800	ND	800	ppbv	--	--
	1,1,2-Trichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,1-Dichloroethene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dibromoethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,2-Dichloroethane		ND	800	ND	800	ppbv	--	--
	1,2-Dichloropropane		ND	800	ND	800	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106135-250</b>									
EPA TO15	1,3,5-Trimethylbenzene	2/21/2013	ND	800	ND	800	ppbv	--	--
	1,3-Butadiene		ND	800	ND	800	ppbv	--	--
	1,3-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	1,4-Dichlorobenzene		ND	800	ND	800	ppbv	--	--
	2-Butanone		ND	800	ND	800	ppbv	--	--
	2-Hexanone		ND	800	ND	800	ppbv	--	--
	4-Methyl-2-pentanone		ND	800	ND	800	ppbv	--	--
	Acetone		1100	800	990	800	ppbv	10.5	Yes
	Benzene		1700	800	2200	800	ppbv	25.6	Yes
	Benzyl chloride		ND	800	ND	800	ppbv	--	--
	Bromodichloromethane		ND	800	ND	800	ppbv	--	--
	Bromoform		ND	800	ND	800	ppbv	--	--
	Bromomethane		ND	800	ND	800	ppbv	--	--
	Carbon disulfide		ND	800	ND	800	ppbv	--	--
	Carbon tetrachloride		ND	800	ND	800	ppbv	--	--
	Chlorobenzene		ND	800	ND	800	ppbv	--	--
	Chlorodibromomethane		ND	800	ND	800	ppbv	--	--
	Chloroethane		ND	800	ND	800	ppbv	--	--
	Chloroform		ND	800	ND	800	ppbv	--	--
	Chloromethane		ND	800	ND	800	ppbv	--	--
	cis-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	cis-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Cyclohexane		2600	1600	3500	1600	ppbv	29.5	Yes
	Dichlorodifluoromethane		ND	800	ND	800	ppbv	--	--
	Ethyl acetate		ND	800	ND	800	ppbv	--	--
	Ethylbenzene		940 J	1600	1200 J	1600	ppbv	--	--
	Heptane		2800	800	3700	800	ppbv	27.7	Yes
	Hexachlorobutadiene		ND	1600	ND	1600	ppbv	--	--
	m,p-Xylene		2300	1600	2900	1600	ppbv	23.1	Yes
	Methylene chloride		ND	4000	ND	4000	ppbv	--	--
	Naphthalene		ND	800	ND	800	ppbv	--	--
	n-Hexane		1500 J	1600	1900	1600	ppbv	--	--
	o-Xylene		ND	800	900	800	ppbv	--	--
	Propylene		ND	800	ND	800	ppbv	--	--
	Styrene		ND	800	ND	800	ppbv	--	--
	tert-Butyl Methyl Ether		ND	800	ND	800	ppbv	--	--
	Tetrachloroethene		ND	800	ND	800	ppbv	--	--



**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106135-250</b>									
EPA TO15	Tetrahydrofuran	2/21/2013	ND	800	ND	800	ppbv	--	--
	Toluene		8000	800	11000	800	ppbv	31.6	Yes
	trans-1,2-Dichloroethene		ND	800	ND	800	ppbv	--	--
	trans-1,3-dichloropropene		ND	800	ND	800	ppbv	--	--
	Trichloroethene		ND	800	ND	800	ppbv	--	--
	Trichlorofluoromethane		ND	800	ND	800	ppbv	--	--
	Vinyl acetate		ND	800	ND	800	ppbv	--	--
	Vinyl chloride		ND	800	ND	800	ppbv	--	--
	Xylenes, Total		2300 J	2400	3800	2400	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		160000	94000	210000	94000	ug/m3	27	Yes
	C9-C10 Aromatic Hydrocarbons		ND	110000	ND	110000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	150000	53000 J	150000	ug/m3	--	--
<b>KAFB-106136-350</b>									
ASTM D2504	Carbon dioxide	2/27/2013	ND	0.1	0.096 J	0.1	% V/V	--	--
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		82	0.1	83	0.1	% V/V	1.2	Yes
	Oxygen		23	0.1	23	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	4	ND	4	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	4	ND	4	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	4	ND	4	ppbv	--	--
	1,1,2-Trichloroethane		ND	4	ND	4	ppbv	--	--
	1,1-Dichloroethane		ND	4	ND	4	ppbv	--	--
	1,1-Dichloroethene		ND	4	ND	4	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	4	ND	4	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	4	ND	4	ppbv	--	--
	1,2-Dibromoethane		ND	4	ND	4	ppbv	--	--
	1,2-Dichlorobenzene		ND	4	ND	4	ppbv	--	--
	1,2-Dichloroethane		ND	4	ND	4	ppbv	--	--
	1,2-Dichloropropane		ND	4	ND	4	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	4	ND	4	ppbv	--	--
	1,3-Butadiene		ND	4	ND	4	ppbv	--	--
	1,3-Dichlorobenzene		ND	4	ND	4	ppbv	--	--
	1,4-Dichlorobenzene		ND	4	ND	4	ppbv	--	--
	2-Butanone		ND	4	ND	4	ppbv	--	--
	2-Hexanone		ND	4	ND	4	ppbv	--	--
	4-Methyl-2-pentanone		ND	4	ND	4	ppbv	--	--
	Acetone		9.2	4	9.2	4	ppbv	0	Yes

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106136-350</b>									
EPA TO15	Benzene	2/27/2013	15	4	160	4	ppbv	165.7	No
	Benzyl chloride		ND	4	ND	4	ppbv	--	--
	Bromodichloromethane		ND	4	ND	4	ppbv	--	--
	Bromoform		ND	4	ND	4	ppbv	--	--
	Bromomethane		ND	4	ND	4	ppbv	--	--
	Carbon disulfide		ND	4	ND	4	ppbv	--	--
	Carbon tetrachloride		ND	4	ND	4	ppbv	--	--
	Chlorobenzene		ND	4	ND	4	ppbv	--	--
	Chlorodibromomethane		ND	4	ND	4	ppbv	--	--
	Chloroethane		ND	4	ND	4	ppbv	--	--
	Chloroform		ND	4	ND	4	ppbv	--	--
	Chloromethane		ND	4	ND	4	ppbv	--	--
	cis-1,2-Dichloroethene		ND	4	ND	4	ppbv	--	--
	cis-1,3-dichloropropene		ND	4	ND	4	ppbv	--	--
	Cyclohexane		6.7 J	8	50	8	ppbv	--	--
	Dichlorodifluoromethane		ND	4	ND	4	ppbv	--	--
	Ethyl acetate		ND	4	ND	4	ppbv	--	--
	Ethylbenzene		ND	8	ND	8	ppbv	--	--
	Heptane		ND	4	16	4	ppbv	--	--
	Hexachlorobutadiene		ND	8	ND	8	ppbv	--	--
	m,p-Xylene		4.4 J	8	6.7 J	8	ppbv	--	--
	Methylene chloride		ND	20	8.4 J	20	ppbv	--	--
	Naphthalene		ND	4	ND	4	ppbv	--	--
	n-Hexane		4.3 J	8	35	8	ppbv	--	--
	o-Xylene		ND	4	ND	4	ppbv	--	--
	Propylene		ND	4	ND	4	ppbv	--	--
	Styrene		ND	4	ND	4	ppbv	--	--
	tert-Butyl Methyl Ether		ND	4	ND	4	ppbv	--	--
	Tetrachloroethene		ND	4	ND	4	ppbv	--	--
	Tetrahydrofuran		ND	4	ND	4	ppbv	--	--
	Toluene		28	4	110	4	ppbv	118.8	No
	trans-1,2-Dichloroethene		ND	4	ND	4	ppbv	--	--
	trans-1,3-dichloropropene		ND	4	ND	4	ppbv	--	--
	Trichloroethene		ND	4	ND	4	ppbv	--	--
	Trichlorofluoromethane		ND	4	ND	4	ppbv	--	--
	Vinyl acetate		ND	4	ND	4	ppbv	--	--
	Vinyl chloride		ND	4	ND	4	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106136-350</b>									
EPA TO15	Xylenes, Total	2/27/2013	4.4 J	12	6.7 J	12	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		760	470	3000	470	ug/m3	119.1	No
	C9-C10 Aromatic Hydrocarbons		ND	530	ND	530	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	760	ND	760	ug/m3	--	--
<b>KAFB-106138-050</b>									
ASTM D2504	Carbon dioxide	2/20/2013	1.6	0.1	1.7	0.1	% V/V	6.1	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		85	0.1	84	0.1	% V/V	1.2	Yes
	Oxygen		20	0.1	20	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	8000	ND	8000	ppbv	--	--
	1,1,2-Trichloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1-Dichloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1-Dichloroethene		ND	8000	ND	8000	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	8000	ND	8000	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	8000	ND	8000	ppbv	--	--
	1,2-Dibromoethane		ND	8000	ND	8000	ppbv	--	--
	1,2-Dichlorobenzene		ND	8000	ND	8000	ppbv	--	--
	1,2-Dichloroethane		ND	8000	ND	8000	ppbv	--	--
	1,2-Dichloropropane		ND	8000	ND	8000	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	8000	ND	8000	ppbv	--	--
	1,3-Butadiene		ND	8000	ND	8000	ppbv	--	--
	1,3-Dichlorobenzene		ND	8000	ND	8000	ppbv	--	--
	1,4-Dichlorobenzene		ND	8000	ND	8000	ppbv	--	--
	2-Butanone		ND	8000	ND	8000	ppbv	--	--
	2-Hexanone		ND	8000	ND	8000	ppbv	--	--
	4-Methyl-2-pentanone		ND	8000	ND	8000	ppbv	--	--
	Acetone		ND	8000	ND	8000	ppbv	--	--
	Benzene		16000	8000	38000	8000	ppbv	81.5	No
	Benzyl chloride		ND	8000	ND	8000	ppbv	--	--
	Bromodichloromethane		ND	8000	ND	8000	ppbv	--	--
	Bromoform		ND	8000	ND	8000	ppbv	--	--
	Bromomethane		ND	8000	ND	8000	ppbv	--	--
	Carbon disulfide		ND	8000	ND	8000	ppbv	--	--
	Carbon tetrachloride		ND	8000	ND	8000	ppbv	--	--
	Chlorobenzene		ND	8000	ND	8000	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106138-050</b>									
EPA TO15	Chlorodibromomethane	2/20/2013	ND	8000	ND	8000	ppbv	--	--
	Chloroethane		ND	8000	ND	8000	ppbv	--	--
	Chloroform		ND	8000	ND	8000	ppbv	--	--
	Chloromethane		ND	8000	ND	8000	ppbv	--	--
	cis-1,2-Dichloroethene		ND	8000	ND	8000	ppbv	--	--
	cis-1,3-dichloropropene		ND	8000	ND	8000	ppbv	--	--
	Cyclohexane		22000	16000	59000	16000	ppbv	91.4	No
	Dichlorodifluoromethane		ND	8000	ND	8000	ppbv	--	--
	Ethyl acetate		ND	8000	ND	8000	ppbv	--	--
	Ethylbenzene		ND	16000	ND	16000	ppbv	--	--
	Heptane		22000	8000	55000	8000	ppbv	85.7	No
	Hexachlorobutadiene		ND	16000	ND	16000	ppbv	--	--
	m,p-Xylene		ND	16000	14000 J	16000	ppbv	--	--
	Methylene chloride		ND	40000	ND	40000	ppbv	--	--
	Naphthalene		ND	8000	ND	8000	ppbv	--	--
	n-Hexane		17000	16000	45000	16000	ppbv	90.3	No
	o-Xylene		ND	8000	ND	8000	ppbv	--	--
	Propylene		ND	8000	ND	8000	ppbv	--	--
	Styrene		ND	8000	ND	8000	ppbv	--	--
	tert-Butyl Methyl Ether		ND	8000	ND	8000	ppbv	--	--
	Tetrachloroethene		ND	8000	ND	8000	ppbv	--	--
	Tetrahydrofuran		ND	8000	ND	8000	ppbv	--	--
	Toluene		43000	8000	95000	8000	ppbv	75.4	No
	trans-1,2-Dichloroethene		ND	8000	ND	8000	ppbv	--	--
	trans-1,3-dichloropropene		ND	8000	ND	8000	ppbv	--	--
	Trichloroethene		ND	8000	ND	8000	ppbv	--	--
	Trichlorofluoromethane		ND	8000	ND	8000	ppbv	--	--
	Vinyl acetate		ND	8000	ND	8000	ppbv	--	--
	Vinyl chloride		ND	8000	ND	8000	ppbv	--	--
	Xylenes, Total		ND	24000	14000 J	24000	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		2200000	940000	3300000	940000	ug/m3	40	Yes
	C9-C10 Aromatic Hydrocarbons		ND	1100000	ND	1100000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	1500000	ND	1500000	ug/m3	--	--
<b>KAFB-106139-250</b>									
ASTM D2504	Carbon dioxide	2/25/2013	0.52	0.1	0.54	0.1	% V/V	3.8	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	83	0.1	% V/V	0	Yes

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
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**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106139-250</b>									
ASTM D2504	Oxygen	2/25/2013	22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	4	ND	4	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	4	ND	4	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	4	ND	4	ppbv	--	--
	1,1,2-Trichloroethane		ND	4	ND	4	ppbv	--	--
	1,1-Dichloroethane		ND	4	ND	4	ppbv	--	--
	1,1-Dichloroethene		ND	4	ND	4	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	4	ND	4	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	4	ND	4	ppbv	--	--
	1,2-Dibromoethane		ND	4	ND	4	ppbv	--	--
	1,2-Dichlorobenzene		ND	4	ND	4	ppbv	--	--
	1,2-Dichloroethane		ND	4	ND	4	ppbv	--	--
	1,2-Dichloropropane		ND	4	ND	4	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	4	ND	4	ppbv	--	--
	1,3-Butadiene		ND	4	ND	4	ppbv	--	--
	1,3-Dichlorobenzene		ND	4	ND	4	ppbv	--	--
	1,4-Dichlorobenzene		ND	4	ND	4	ppbv	--	--
	2-Butanone		7.7	4	ND	4	ppbv	--	--
	2-Hexanone		ND	4	ND	4	ppbv	--	--
	4-Methyl-2-pentanone		ND	4	ND	4	ppbv	--	--
	Acetone		45	4	19	4	ppbv	81.3	No
	Benzene		9.4	4	ND	4	ppbv	--	--
	Benzyl chloride		ND	4	ND	4	ppbv	--	--
	Bromodichloromethane		ND	4	ND	4	ppbv	--	--
	Bromoform		ND	4	ND	4	ppbv	--	--
	Bromomethane		ND	4	ND	4	ppbv	--	--
	Carbon disulfide		ND	4	ND	4	ppbv	--	--
	Carbon tetrachloride		ND	4	ND	4	ppbv	--	--
	Chlorobenzene		ND	4	ND	4	ppbv	--	--
	Chlorodibromomethane		ND	4	ND	4	ppbv	--	--
	Chloroethane		ND	4	ND	4	ppbv	--	--
	Chloroform		ND	4	ND	4	ppbv	--	--
	Chloromethane		ND	4	ND	4	ppbv	--	--
	cis-1,2-Dichloroethene		ND	4	ND	4	ppbv	--	--
	cis-1,3-dichloropropene		ND	4	ND	4	ppbv	--	--
	Cyclohexane		9.1	8	6.1 J	8	ppbv	--	--
	Dichlorodifluoromethane		ND	4	ND	4	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106139-250</b>									
EPA TO15	Ethyl acetate	2/25/2013	ND	4	ND	4	ppbv	--	--
	Ethylbenzene		ND	8	ND	8	ppbv	--	--
	Heptane		4.7	4	ND	4	ppbv	--	--
	Hexachlorobutadiene		ND	8	ND	8	ppbv	--	--
	m,p-Xylene		ND	8	ND	8	ppbv	--	--
	Methylene chloride		ND	20	ND	20	ppbv	--	--
	Naphthalene		ND	4	ND	4	ppbv	--	--
	n-Hexane		16	8	5.3 J	8	ppbv	--	--
	o-Xylene		ND	4	ND	4	ppbv	--	--
	Propylene		ND	4	ND	4	ppbv	--	--
	Styrene		ND	4	ND	4	ppbv	--	--
	tert-Butyl Methyl Ether		ND	4	ND	4	ppbv	--	--
	Tetrachloroethene		ND	4	ND	4	ppbv	--	--
	Tetrahydrofuran		ND	4	ND	4	ppbv	--	--
	Toluene		37	4	12	4	ppbv	102	No
	trans-1,2-Dichloroethene		ND	4	ND	4	ppbv	--	--
	trans-1,3-dichloropropene		ND	4	ND	4	ppbv	--	--
	Trichloroethene		ND	4	ND	4	ppbv	--	--
	Trichlorofluoromethane		ND	4	ND	4	ppbv	--	--
	Vinyl acetate		ND	4	ND	4	ppbv	--	--
	Vinyl chloride		ND	4	ND	4	ppbv	--	--
	Xylenes, Total		ND	12	ND	12	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		1500	470	860	470	ug/m3	54.2	No
	C9-C10 Aromatic Hydrocarbons		ND	530	ND	530	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	760	ND	760	ug/m3	--	--
<b>KAFB-106141-170</b>									
ASTM D2504	Carbon dioxide	2/27/2013	0.13	0.1	0.12	0.1	% V/V	8	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	82	0.1	% V/V	1.2	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	8	ND	8	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	8	ND	8	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	8	ND	8	ppbv	--	--
	1,1,2-Trichloroethane		ND	8	ND	8	ppbv	--	--
	1,1-Dichloroethane		ND	8	ND	8	ppbv	--	--
	1,1-Dichloroethene		ND	8	ND	8	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	8	ND	8	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106141-170</b>									
EPA TO15	1,2,4-Trimethylbenzene	2/27/2013	ND	8	ND	8	ppbv	--	--
	1,2-Dibromoethane		ND	8	ND	8	ppbv	--	--
	1,2-Dichlorobenzene		ND	8	ND	8	ppbv	--	--
	1,2-Dichloroethane		ND	8	ND	8	ppbv	--	--
	1,2-Dichloropropane		ND	8	ND	8	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	8	ND	8	ppbv	--	--
	1,3-Butadiene		ND	8	ND	8	ppbv	--	--
	1,3-Dichlorobenzene		ND	8	ND	8	ppbv	--	--
	1,4-Dichlorobenzene		ND	8	ND	8	ppbv	--	--
	2-Butanone		ND	8	17	8	ppbv	--	--
	2-Hexanone		ND	8	ND	8	ppbv	--	--
	4-Methyl-2-pentanone		ND	8	ND	8	ppbv	--	--
	Acetone		11	8	110	8	ppbv	163.6	No
	Benzene		15	8	26	8	ppbv	53.7	No
	Benzyl chloride		ND	8	ND	8	ppbv	--	--
	Bromodichloromethane		ND	8	ND	8	ppbv	--	--
	Bromoform		ND	8	ND	8	ppbv	--	--
	Bromomethane		ND	8	ND	8	ppbv	--	--
	Carbon disulfide		ND	8	ND	8	ppbv	--	--
	Carbon tetrachloride		ND	8	ND	8	ppbv	--	--
	Chlorobenzene		ND	8	ND	8	ppbv	--	--
	Chlorodibromomethane		ND	8	ND	8	ppbv	--	--
	Chloroethane		ND	8	ND	8	ppbv	--	--
	Chloroform		ND	8	ND	8	ppbv	--	--
	Chloromethane		ND	8	ND	8	ppbv	--	--
	cis-1,2-Dichloroethene		ND	8	ND	8	ppbv	--	--
	cis-1,3-dichloropropene		ND	8	ND	8	ppbv	--	--
	Cyclohexane		16	16	17	16	ppbv	6.1	Yes
	Dichlorodifluoromethane		ND	8	ND	8	ppbv	--	--
	Ethyl acetate		ND	8	ND	8	ppbv	--	--
	Ethylbenzene		8.7 J	16	ND	16	ppbv	--	--
	Heptane		12	8	13	8	ppbv	8	Yes
	Hexachlorobutadiene		ND	16	ND	16	ppbv	--	--
	m,p-Xylene		25	16	20	16	ppbv	22.2	Yes
	Methylene chloride		35 J	40	ND	40	ppbv	--	--
	Naphthalene		ND	8	ND	8	ppbv	--	--
	n-Hexane		13 J	16	ND	16	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106141-170</b>									
EPA TO15	o-Xylene	2/27/2013	9.9	8	ND	8	ppbv	--	--
	Propylene		ND	8	ND	8	ppbv	--	--
	Styrene		ND	8	ND	8	ppbv	--	--
	tert-Butyl Methyl Ether		ND	8	ND	8	ppbv	--	--
	Tetrachloroethene		ND	8	ND	8	ppbv	--	--
	Tetrahydrofuran		ND	8	ND	8	ppbv	--	--
	Toluene		63	8	95	8	ppbv	40.5	Yes
	trans-1,2-Dichloroethene		ND	8	ND	8	ppbv	--	--
	trans-1,3-dichloropropene		ND	8	ND	8	ppbv	--	--
	Trichloroethene		ND	8	ND	8	ppbv	--	--
	Trichlorofluoromethane		ND	8	ND	8	ppbv	--	--
	Vinyl acetate		ND	8	ND	8	ppbv	--	--
	Vinyl chloride		ND	8	ND	8	ppbv	--	--
	Xylenes, Total		35	24	20 J	24	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		2300	940	2100	940	ug/m3	9.1	Yes
	C9-C10 Aromatic Hydrocarbons		ND	1100	ND	1100	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		1400 J	1500	800 J	1500	ug/m3	--	--
<b>KAFB-106142-450</b>									
ASTM D2504	Carbon dioxide	2/26/2013	0.14	0.1	0.13	0.1	% V/V	7.4	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	83	0.1	% V/V	0	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dibromoethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloropropane		ND	1600	ND	1600	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,3-Butadiene		ND	1600	ND	1600	ppbv	--	--
	1,3-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--



**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106142-450</b>									
EPA TO15	1,4-Dichlorobenzene	2/26/2013	ND	1600	ND	1600	ppbv	--	--
	2-Butanone		ND	1600	ND	1600	ppbv	--	--
	2-Hexanone		ND	1600	ND	1600	ppbv	--	--
	4-Methyl-2-pentanone		ND	1600	ND	1600	ppbv	--	--
	Acetone		1800	1600	ND	1600	ppbv	--	--
	Benzene		18000	1600	19000	1600	ppbv	5.4	Yes
	Benzyl chloride		ND	1600	ND	1600	ppbv	--	--
	Bromodichloromethane		ND	1600	ND	1600	ppbv	--	--
	Bromoform		ND	1600	ND	1600	ppbv	--	--
	Bromomethane		ND	1600	ND	1600	ppbv	--	--
	Carbon disulfide		ND	1600	ND	1600	ppbv	--	--
	Carbon tetrachloride		ND	1600	ND	1600	ppbv	--	--
	Chlorobenzene		ND	1600	ND	1600	ppbv	--	--
	Chlorodibromomethane		ND	1600	ND	1600	ppbv	--	--
	Chloroethane		ND	1600	ND	1600	ppbv	--	--
	Chloroform		ND	1600	ND	1600	ppbv	--	--
	Chloromethane		ND	1600	ND	1600	ppbv	--	--
	cis-1,2-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	cis-1,3-dichloropropene		ND	1600	ND	1600	ppbv	--	--
	Cyclohexane		2500 J	3200	2800 J	3200	ppbv	--	--
	Dichlorodifluoromethane		ND	1600	ND	1600	ppbv	--	--
	Ethyl acetate		ND	1600	ND	1600	ppbv	--	--
	Ethylbenzene		ND	3200	ND	3200	ppbv	--	--
	Heptane		ND	1600	ND	1600	ppbv	--	--
	Hexachlorobutadiene		ND	3200	ND	3200	ppbv	--	--
	m,p-Xylene		ND	3200	ND	3200	ppbv	--	--
	Methylene chloride		ND	8000	ND	8000	ppbv	--	--
	Naphthalene		ND	1600	ND	1600	ppbv	--	--
	n-Hexane		ND	3200	ND	3200	ppbv	--	--
	o-Xylene		ND	1600	ND	1600	ppbv	--	--
	Propylene		ND	1600	ND	1600	ppbv	--	--
	Styrene		ND	1600	ND	1600	ppbv	--	--
	tert-Butyl Methyl Ether		ND	1600	ND	1600	ppbv	--	--
	Tetrachloroethene		ND	1600	ND	1600	ppbv	--	--
	Tetrahydrofuran		ND	1600	ND	1600	ppbv	--	--
	Toluene		11000	1600	11000	1600	ppbv	0	Yes
	trans-1,2-Dichloroethene		ND	1600	ND	1600	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>KAFB-106142-450</b>									
EPA TO15	trans-1,3-dichloropropene	2/26/2013	ND	1600	ND	1600	ppbv	--	--
	Trichloroethene		ND	1600	ND	1600	ppbv	--	--
	Trichlorofluoromethane		ND	1600	ND	1600	ppbv	--	--
	Vinyl acetate		ND	1600	ND	1600	ppbv	--	--
	Vinyl chloride		ND	1600	ND	1600	ppbv	--	--
	Xylenes, Total		ND	4800	ND	4800	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		99000	94000	130000	94000	ug/m3	27.1	Yes
	C9-C10 Aromatic Hydrocarbons		ND	110000	ND	110000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	150000	ND	150000	ug/m3	--	--
<b>SVEW-10-410</b>									
ASTM D2504	Carbon dioxide	3/4/2013	0.12	0.1	0.12	0.1	% V/V	0	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	83	0.1	% V/V	0	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dibromoethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloropropane		ND	1600	ND	1600	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,3-Butadiene		ND	1600	ND	1600	ppbv	--	--
	1,3-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,4-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	2-Butanone		ND	1600	ND	1600	ppbv	--	--
	2-Hexanone		ND	1600	ND	1600	ppbv	--	--
	4-Methyl-2-pentanone		ND	1600	ND	1600	ppbv	--	--
	Acetone		ND	1600	ND	1600	ppbv	--	--
	Benzene		4400	1600	4600	1600	ppbv	4.4	Yes
	Benzyl chloride		ND	1600	ND	1600	ppbv	--	--
	Bromodichloromethane		ND	1600	ND	1600	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVEW-10-410</b>									
EPA TO15	Bromoform	3/4/2013	ND	1600	ND	1600	ppbv	--	--
	Bromomethane		ND	1600	ND	1600	ppbv	--	--
	Carbon disulfide		ND	1600	ND	1600	ppbv	--	--
	Carbon tetrachloride		ND	1600	ND	1600	ppbv	--	--
	Chlorobenzene		ND	1600	ND	1600	ppbv	--	--
	Chlorodibromomethane		ND	1600	ND	1600	ppbv	--	--
	Chloroethane		ND	1600	ND	1600	ppbv	--	--
	Chloroform		ND	1600	ND	1600	ppbv	--	--
	Chloromethane		ND	1600	ND	1600	ppbv	--	--
	cis-1,2-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	cis-1,3-dichloropropene		ND	1600	ND	1600	ppbv	--	--
	Cyclohexane		15000	3200	17000	3200	ppbv	12.5	Yes
	Dichlorodifluoromethane		ND	1600	ND	1600	ppbv	--	--
	Ethyl acetate		ND	1600	ND	1600	ppbv	--	--
	Ethylbenzene		3600	3200	4200	3200	ppbv	15.4	Yes
	Heptane		18000	1600	20000	1600	ppbv	10.5	Yes
	Hexachlorobutadiene		ND	3200	ND	3200	ppbv	--	--
	m,p-Xylene		10000	3200	12000	3200	ppbv	18.2	Yes
	Methylene chloride		ND	8000	ND	8000	ppbv	--	--
	Naphthalene		ND	1600	ND	1600	ppbv	--	--
	n-Hexane		6900	3200	7200	3200	ppbv	4.3	Yes
	o-Xylene		3000	1600	3500	1600	ppbv	15.4	Yes
	Propylene		ND	1600	ND	1600	ppbv	--	--
	Styrene		ND	1600	ND	1600	ppbv	--	--
	tert-Butyl Methyl Ether		ND	1600	ND	1600	ppbv	--	--
	Tetrachloroethene		ND	1600	ND	1600	ppbv	--	--
	Tetrahydrofuran		ND	1600	ND	1600	ppbv	--	--
	Toluene		33000	1600	38000	1600	ppbv	14.1	Yes
	trans-1,2-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	trans-1,3-dichloropropene		ND	1600	ND	1600	ppbv	--	--
	Trichloroethene		ND	1600	ND	1600	ppbv	--	--
	Trichlorofluoromethane		ND	1600	ND	1600	ppbv	--	--
	Vinyl acetate		ND	1600	ND	1600	ppbv	--	--
	Vinyl chloride		ND	1600	ND	1600	ppbv	--	--
	Xylenes, Total		13000	4800	16000	4800	ppbv	20.7	Yes
MA APH	C5-C8 Aliphatic Hydrocarbons		1700000	190000	1700000	190000	ug/m3	0	Yes
	C9-C10 Aromatic Hydrocarbons		ND	210000	ND	210000	ug/m3	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVEW-10-410</b>									
MA APH	C9-C12 Aliphatic Hydrocarbons	3/4/2013	240000 J	300000	310000	300000	ug/m3	--	--
<b>SVMW-01-100</b>									
ASTM D2504	Carbon dioxide	2/27/2013	10	0.1	9	0.1	% V/V	10.5	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		86	0.1	85	0.1	% V/V	1.2	Yes
	Oxygen		8.1	0.1	9.7	0.1	% V/V	18	Yes
EPA TO15	1,1,1-Trichloroethane		ND	20000	ND	20000	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	20000	ND	20000	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	20000	ND	20000	ppbv	--	--
	1,1,2-Trichloroethane		ND	20000	ND	20000	ppbv	--	--
	1,1-Dichloroethane		ND	20000	ND	20000	ppbv	--	--
	1,1-Dichloroethene		ND	20000	ND	20000	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	20000	ND	20000	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	20000	ND	20000	ppbv	--	--
	1,2-Dibromoethane		ND	20000	ND	20000	ppbv	--	--
	1,2-Dichlorobenzene		ND	20000	ND	20000	ppbv	--	--
	1,2-Dichloroethane		ND	20000	ND	20000	ppbv	--	--
	1,2-Dichloropropane		ND	20000	ND	20000	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	20000	ND	20000	ppbv	--	--
	1,3-Butadiene		ND	20000	ND	20000	ppbv	--	--
	1,3-Dichlorobenzene		ND	20000	ND	20000	ppbv	--	--
	1,4-Dichlorobenzene		ND	20000	ND	20000	ppbv	--	--
	2-Butanone		ND	20000	ND	20000	ppbv	--	--
	2-Hexanone		ND	20000	ND	20000	ppbv	--	--
	4-Methyl-2-pentanone		ND	20000	ND	20000	ppbv	--	--
	Acetone		ND	20000	ND	20000	ppbv	--	--
	Benzene		130000	20000	110000	20000	ppbv	16.7	Yes
	Benzyl chloride		ND	20000	ND	20000	ppbv	--	--
	Bromodichloromethane		ND	20000	ND	20000	ppbv	--	--
	Bromoform		ND	20000	ND	20000	ppbv	--	--
	Bromomethane		ND	20000	ND	20000	ppbv	--	--
	Carbon disulfide		ND	20000	ND	20000	ppbv	--	--
	Carbon tetrachloride		ND	20000	ND	20000	ppbv	--	--
	Chlorobenzene		ND	20000	ND	20000	ppbv	--	--
	Chlorodibromomethane		ND	20000	ND	20000	ppbv	--	--
	Chloroethane		ND	20000	ND	20000	ppbv	--	--
	Chloroform		ND	20000	ND	20000	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-01-100</b>									
EPA TO15	Chloromethane	2/27/2013	ND	20000	ND	20000	ppbv	--	--
	cis-1,2-Dichloroethene		ND	20000	ND	20000	ppbv	--	--
	cis-1,3-dichloropropene		ND	20000	ND	20000	ppbv	--	--
	Cyclohexane		820000	80000	510000	80000	ppbv	46.6	Yes
	Dichlorodifluoromethane		ND	20000	ND	20000	ppbv	--	--
	Ethyl acetate		ND	20000	ND	20000	ppbv	--	--
	Ethylbenzene		ND	40000	ND	40000	ppbv	--	--
	Heptane		370000	20000	310000	20000	ppbv	17.6	Yes
	Hexachlorobutadiene		ND	40000	ND	40000	ppbv	--	--
	m,p-Xylene		ND	40000	ND	40000	ppbv	--	--
	Methylene chloride		ND	100000	ND	100000	ppbv	--	--
	Naphthalene		ND	20000	ND	20000	ppbv	--	--
	n-Hexane		1100000	80000	650000	80000	ppbv	51.4	No
	o-Xylene		ND	20000	ND	20000	ppbv	--	--
	Propylene		ND	20000	ND	20000	ppbv	--	--
	Styrene		ND	20000	ND	20000	ppbv	--	--
	tert-Butyl Methyl Ether		ND	20000	ND	20000	ppbv	--	--
	Tetrachloroethene		ND	20000	ND	20000	ppbv	--	--
	Tetrahydrofuran		ND	20000	ND	20000	ppbv	--	--
	Toluene		54000	20000	45000	20000	ppbv	18.2	Yes
	trans-1,2-Dichloroethene		ND	20000	ND	20000	ppbv	--	--
	trans-1,3-dichloropropene		ND	20000	ND	20000	ppbv	--	--
	Trichloroethene		ND	20000	ND	20000	ppbv	--	--
	Trichlorofluoromethane		ND	20000	ND	20000	ppbv	--	--
	Vinyl acetate		ND	20000	ND	20000	ppbv	--	--
	Vinyl chloride		ND	20000	ND	20000	ppbv	--	--
	Xylenes, Total		ND	60000	ND	60000	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		26000000	4700000	16000000	4700000	ug/m3	47.6	Yes
	C9-C10 Aromatic Hydrocarbons		ND	5300000	ND	5300000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	7600000	ND	7600000	ug/m3	--	--
<b>SVMW-04-100</b>									
ASTM D2504	Carbon dioxide	2/19/2013	5.1	0.1	11	0.1	% V/V	73.3	No
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		82	0.1	84	0.1	% V/V	2.4	Yes
	Oxygen		16	0.1	6.5	0.1	% V/V	84.4	No
EPA TO15	1,1,1-Trichloroethane		ND	40000	ND	40000	ppbv	--	--
	1,1,1,2-Tetrachloroethane		ND	40000	ND	40000	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-04-100</b>									
EPA TO15	1,1,2-Trichloro-1,2,2-trifluoroethane	2/19/2013	ND	40000	ND	40000	ppbv	--	--
	1,1,2-Trichloroethane		ND	40000	ND	40000	ppbv	--	--
	1,1-Dichloroethane		ND	40000	ND	40000	ppbv	--	--
	1,1-Dichloroethene		ND	40000	ND	40000	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	40000	ND	40000	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	40000	ND	40000	ppbv	--	--
	1,2-Dibromoethane		ND	40000	ND	40000	ppbv	--	--
	1,2-Dichlorobenzene		ND	40000	ND	40000	ppbv	--	--
	1,2-Dichloroethane		ND	40000	ND	40000	ppbv	--	--
	1,2-Dichloropropane		ND	40000	ND	40000	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	40000	ND	40000	ppbv	--	--
	1,3-Butadiene		ND	40000	ND	40000	ppbv	--	--
	1,3-Dichlorobenzene		ND	40000	ND	40000	ppbv	--	--
	1,4-Dichlorobenzene		ND	40000	ND	40000	ppbv	--	--
	2-Butanone		ND	40000	ND	40000	ppbv	--	--
	2-Hexanone		ND	40000	ND	40000	ppbv	--	--
	4-Methyl-2-pentanone		ND	40000	ND	40000	ppbv	--	--
	Acetone		73000	40000	89000	40000	ppbv	19.8	Yes
	Benzene		430000	40000	420000	40000	ppbv	2.4	Yes
	Benzyl chloride		ND	40000	ND	40000	ppbv	--	--
	Bromodichloromethane		ND	40000	ND	40000	ppbv	--	--
	Bromoform		ND	40000	ND	40000	ppbv	--	--
	Bromomethane		ND	40000	ND	40000	ppbv	--	--
	Carbon disulfide		ND	40000	ND	40000	ppbv	--	--
	Carbon tetrachloride		ND	40000	ND	40000	ppbv	--	--
	Chlorobenzene		ND	40000	ND	40000	ppbv	--	--
	Chlorodibromomethane		ND	40000	ND	40000	ppbv	--	--
	Chloroethane		ND	40000	ND	40000	ppbv	--	--
	Chloroform		ND	40000	ND	40000	ppbv	--	--
	Chloromethane		ND	40000	ND	40000	ppbv	--	--
	cis-1,2-Dichloroethene		ND	40000	ND	40000	ppbv	--	--
	cis-1,3-dichloropropene		ND	40000	ND	40000	ppbv	--	--
	Cyclohexane		1600000	80000	1600000	80000	ppbv	0	Yes
	Dichlorodifluoromethane		ND	40000	ND	40000	ppbv	--	--
	Ethyl acetate		ND	40000	ND	40000	ppbv	--	--
	Ethylbenzene		ND	80000	ND	80000	ppbv	--	--
	Heptane		850000	40000	860000	40000	ppbv	1.2	Yes

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-04-100</b>									
EPA TO15	Hexachlorobutadiene	2/19/2013	ND	80000	ND	80000	ppbv	--	--
	m,p-Xylene		43000 J	80000	ND	80000	ppbv	--	--
	Methylene chloride		ND	200000	ND	200000	ppbv	--	--
	Naphthalene		ND	40000	ND	40000	ppbv	--	--
	n-Hexane		1800000	80000	1800000	80000	ppbv	0	Yes
	o-Xylene		ND	40000	ND	40000	ppbv	--	--
	Propylene		ND	40000	ND	40000	ppbv	--	--
	Styrene		ND	40000	ND	40000	ppbv	--	--
	tert-Butyl Methyl Ether		ND	40000	ND	40000	ppbv	--	--
	Tetrachloroethene		ND	40000	ND	40000	ppbv	--	--
	Tetrahydrofuran		ND	40000	ND	40000	ppbv	--	--
	Toluene		430000	40000	410000	40000	ppbv	4.8	Yes
	trans-1,2-Dichloroethene		ND	40000	ND	40000	ppbv	--	--
	trans-1,3-dichloropropene		ND	40000	ND	40000	ppbv	--	--
	Trichloroethene		ND	40000	ND	40000	ppbv	--	--
	Trichlorofluoromethane		ND	40000	ND	40000	ppbv	--	--
	Vinyl acetate		ND	40000	ND	40000	ppbv	--	--
	Vinyl chloride		ND	40000	ND	40000	ppbv	--	--
	Xylenes, Total		43000 J	120000	ND	120000	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		64000000	9400000	67000000	9400000	ug/m3	4.6	Yes
	C9-C10 Aromatic Hydrocarbons		ND	11000000	ND	11000000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	15000000	ND	15000000	ug/m3	--	--
<b>SVMW-06-252</b>									
ASTM D2504	Carbon dioxide	2/25/2013	1.4	0.1	1.8	0.1	% V/V	25	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		86	0.1	88	0.1	% V/V	2.3	Yes
	Oxygen		18	0.1	17	0.1	% V/V	5.7	Yes
EPA TO15	1,1,1-Trichloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	8000	ND	8000	ppbv	--	--
	1,1,2-Trichloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1-Dichloroethane		ND	8000	ND	8000	ppbv	--	--
	1,1-Dichloroethene		ND	8000	ND	8000	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	8000	ND	8000	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	8000	ND	8000	ppbv	--	--
	1,2-Dibromoethane		ND	8000	ND	8000	ppbv	--	--
	1,2-Dichlorobenzene		ND	8000	ND	8000	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-06-252</b>									
EPA TO15	1,2-Dichloroethane	2/25/2013	ND	8000	ND	8000	ppbv	--	--
	1,2-Dichloropropane		ND	8000	ND	8000	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	8000	ND	8000	ppbv	--	--
	1,3-Butadiene		ND	8000	ND	8000	ppbv	--	--
	1,3-Dichlorobenzene		ND	8000	ND	8000	ppbv	--	--
	1,4-Dichlorobenzene		ND	8000	ND	8000	ppbv	--	--
	2-Butanone		ND	8000	ND	8000	ppbv	--	--
	2-Hexanone		ND	8000	ND	8000	ppbv	--	--
	4-Methyl-2-pentanone		ND	8000	ND	8000	ppbv	--	--
	Acetone		ND	8000	ND	8000	ppbv	--	--
	Benzene		250000	8000	530000	20000	ppbv	71.8	No
	Benzyl chloride		ND	8000	ND	8000	ppbv	--	--
	Bromodichloromethane		ND	8000	ND	8000	ppbv	--	--
	Bromoform		ND	8000	ND	8000	ppbv	--	--
	Bromomethane		ND	8000	ND	8000	ppbv	--	--
	Carbon disulfide		ND	8000	ND	8000	ppbv	--	--
	Carbon tetrachloride		ND	8000	ND	8000	ppbv	--	--
	Chlorobenzene		ND	8000	ND	8000	ppbv	--	--
	Chlorodibromomethane		ND	8000	ND	8000	ppbv	--	--
	Chloroethane		ND	8000	ND	8000	ppbv	--	--
	Chloroform		ND	8000	ND	8000	ppbv	--	--
	Chloromethane		ND	8000	ND	8000	ppbv	--	--
	cis-1,2-Dichloroethene		ND	8000	ND	8000	ppbv	--	--
	cis-1,3-dichloropropene		ND	8000	ND	8000	ppbv	--	--
	Cyclohexane		200000	16000	410000	40000	ppbv	68.9	No
	Dichlorodifluoromethane		ND	8000	ND	8000	ppbv	--	--
	Ethyl acetate		ND	8000	ND	8000	ppbv	--	--
	Ethylbenzene		ND	16000	ND	16000	ppbv	--	--
	Heptane		20000	8000	43000	8000	ppbv	73	No
	Hexachlorobutadiene		ND	16000	ND	16000	ppbv	--	--
	m,p-Xylene		ND	16000	ND	16000	ppbv	--	--
	Methylene chloride		ND	40000	ND	40000	ppbv	--	--
	Naphthalene		ND	8000	ND	8000	ppbv	--	--
	n-Hexane		140000	16000	310000	16000	ppbv	75.6	No
	o-Xylene		ND	8000	ND	8000	ppbv	--	--
	Propylene		ND	8000	ND	8000	ppbv	--	--
	Styrene		ND	8000	ND	8000	ppbv	--	--



**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-06-252</b>									
EPA TO15	tert-Butyl Methyl Ether	2/25/2013	ND	8000	ND	8000	ppbv	--	--
	Tetrachloroethene		ND	8000	ND	8000	ppbv	--	--
	Tetrahydrofuran		ND	8000	ND	8000	ppbv	--	--
	Toluene		16000	8000	34000	8000	ppbv	72	No
	trans-1,2-Dichloroethene		ND	8000	ND	8000	ppbv	--	--
	trans-1,3-dichloropropene		ND	8000	ND	8000	ppbv	--	--
	Trichloroethene		ND	8000	ND	8000	ppbv	--	--
	Trichlorofluoromethane		ND	8000	ND	8000	ppbv	--	--
	Vinyl acetate		ND	8000	ND	8000	ppbv	--	--
	Vinyl chloride		ND	8000	ND	8000	ppbv	--	--
	Xylenes, Total		ND	24000	ND	24000	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		6500000	940000	22000000	2300000	ug/m3	108.8	No
	C9-C10 Aromatic Hydrocarbons		ND	1100000	ND	2700000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	1500000	ND	3800000	ug/m3	--	--
<b>SVMW-09-100</b>									
ASTM D2504	Carbon dioxide	2/20/2013	11	0.1	12	0.1	% V/V	8.7	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		85	0.1	85	0.1	% V/V	0	Yes
	Oxygen		6	0.1	3.4	0.1	% V/V	55.3	No
EPA TO15	1,1,1-Trichloroethane		ND	80000	ND	80000	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	80000	ND	80000	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	80000	ND	80000	ppbv	--	--
	1,1,2-Trichloroethane		ND	80000	ND	80000	ppbv	--	--
	1,1-Dichloroethane		ND	80000	ND	80000	ppbv	--	--
	1,1-Dichloroethene		ND	80000	ND	80000	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	80000	ND	80000	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	80000	ND	80000	ppbv	--	--
	1,2-Dibromoethane		ND	80000	ND	80000	ppbv	--	--
	1,2-Dichlorobenzene		ND	80000	ND	80000	ppbv	--	--
	1,2-Dichloroethane		ND	80000	ND	80000	ppbv	--	--
	1,2-Dichloropropane		ND	80000	ND	80000	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	80000	ND	80000	ppbv	--	--
	1,3-Butadiene		ND	80000	ND	80000	ppbv	--	--
	1,3-Dichlorobenzene		ND	80000	ND	80000	ppbv	--	--
	1,4-Dichlorobenzene		ND	80000	ND	80000	ppbv	--	--
	2-Butanone		ND	80000	ND	80000	ppbv	--	--
	2-Hexanone		ND	80000	ND	80000	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-09-100</b>									
EPA TO15	4-Methyl-2-pentanone	2/20/2013	ND	80000	ND	80000	ppbv	--	--
	Acetone		ND	80000	ND	80000	ppbv	--	--
	Benzene		850000	80000	960000	80000	ppbv	12.2	Yes
	Benzyl chloride		ND	80000	ND	80000	ppbv	--	--
	Bromodichloromethane		ND	80000	ND	80000	ppbv	--	--
	Bromoform		ND	80000	ND	80000	ppbv	--	--
	Bromomethane		ND	80000	ND	80000	ppbv	--	--
	Carbon disulfide		ND	80000	ND	80000	ppbv	--	--
	Carbon tetrachloride		ND	80000	ND	80000	ppbv	--	--
	Chlorobenzene		ND	80000	ND	80000	ppbv	--	--
	Chlorodibromomethane		ND	80000	ND	80000	ppbv	--	--
	Chloroethane		ND	80000	ND	80000	ppbv	--	--
	Chloroform		ND	80000	ND	80000	ppbv	--	--
	Chloromethane		ND	80000	ND	80000	ppbv	--	--
	cis-1,2-Dichloroethene		ND	80000	ND	80000	ppbv	--	--
	cis-1,3-dichloropropene		ND	80000	ND	80000	ppbv	--	--
	Cyclohexane		2500000	160000	2800000	160000	ppbv	11.3	Yes
	Dichlorodifluoromethane		ND	80000	ND	80000	ppbv	--	--
	Ethyl acetate		ND	80000	ND	80000	ppbv	--	--
	Ethylbenzene		ND	160000	ND	160000	ppbv	--	--
	Heptane		830000	80000	910000	80000	ppbv	9.2	Yes
	Hexachlorobutadiene		ND	160000	ND	160000	ppbv	--	--
	m,p-Xylene		ND	160000	ND	160000	ppbv	--	--
	Methylene chloride		ND	400000	ND	400000	ppbv	--	--
	Naphthalene		ND	80000	ND	80000	ppbv	--	--
	n-Hexane		2900000	160000	3300000	160000	ppbv	12.9	Yes
	o-Xylene		ND	80000	ND	80000	ppbv	--	--
	Propylene		ND	80000	ND	80000	ppbv	--	--
	Styrene		ND	80000	ND	80000	ppbv	--	--
	tert-Butyl Methyl Ether		ND	80000	ND	80000	ppbv	--	--
	Tetrachloroethene		ND	80000	ND	80000	ppbv	--	--
	Tetrahydrofuran		ND	80000	ND	80000	ppbv	--	--
	Toluene		420000	80000	470000	80000	ppbv	11.2	Yes
	trans-1,2-Dichloroethene		ND	80000	ND	80000	ppbv	--	--
	trans-1,3-dichloropropene		ND	80000	ND	80000	ppbv	--	--
	Trichloroethene		ND	80000	ND	80000	ppbv	--	--
	Trichlorofluoromethane		ND	80000	ND	80000	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-09-100</b>									
EPA TO15	Vinyl acetate	2/20/2013	ND	80000	ND	80000	ppbv	--	--
	Vinyl chloride		ND	80000	ND	80000	ppbv	--	--
	Xylenes, Total		ND	240000	ND	240000	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		140000000	19000000	150000000	190000000	ug/m3	6.9	Yes
	C9-C10 Aromatic Hydrocarbons		ND	21000000	ND	210000000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	30000000	ND	300000000	ug/m3	--	--
<b>SVMW-11-250</b>									
ASTM D2504	Carbon dioxide	2/27/2013	6.5	0.1	6.2	0.1	% V/V	4.7	Yes
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--
	Methane		ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		88	0.1	88	0.1	% V/V	0	Yes
	Oxygen		9.5	0.1	10	0.1	% V/V	5.1	Yes
EPA TO15	1,1,1-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	1600	ND	1600	ppbv	--	--
	1,1,2-Trichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,1-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dibromoethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloroethane		ND	1600	ND	1600	ppbv	--	--
	1,2-Dichloropropane		ND	1600	ND	1600	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	1600	ND	1600	ppbv	--	--
	1,3-Butadiene		ND	1600	ND	1600	ppbv	--	--
	1,3-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	1,4-Dichlorobenzene		ND	1600	ND	1600	ppbv	--	--
	2-Butanone		1700	1600	ND	1600	ppbv	--	--
	2-Hexanone		ND	1600	ND	1600	ppbv	--	--
	4-Methyl-2-pentanone		ND	1600	ND	1600	ppbv	--	--
	Acetone		7300	1600	2700	1600	ppbv	92	No
	Benzene		4300	1600	1600	1600	ppbv	91.5	No
	Benzyl chloride		ND	1600	ND	1600	ppbv	--	--
	Bromodichloromethane		ND	1600	ND	1600	ppbv	--	--
	Bromoform		ND	1600	ND	1600	ppbv	--	--
	Bromomethane		ND	1600	ND	1600	ppbv	--	--
	Carbon disulfide		ND	1600	ND	1600	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-11-250</b>									
EPA TO15	Carbon tetrachloride	2/27/2013	ND	1600	ND	1600	ppbv	--	--
	Chlorobenzene		ND	1600	ND	1600	ppbv	--	--
	Chlorodibromomethane		ND	1600	ND	1600	ppbv	--	--
	Chloroethane		ND	1600	ND	1600	ppbv	--	--
	Chloroform		ND	1600	ND	1600	ppbv	--	--
	Chloromethane		ND	1600	ND	1600	ppbv	--	--
	cis-1,2-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	cis-1,3-dichloropropene		ND	1600	ND	1600	ppbv	--	--
	Cyclohexane		14000	3200	5700	3200	ppbv	84.3	No
	Dichlorodifluoromethane		ND	1600	ND	1600	ppbv	--	--
	Ethyl acetate		ND	1600	ND	1600	ppbv	--	--
	Ethylbenzene		ND	3200	ND	3200	ppbv	--	--
	Heptane		33000	1600	9900	1600	ppbv	107.7	No
	Hexachlorobutadiene		ND	3200	ND	3200	ppbv	--	--
	m,p-Xylene		1800 J	3200	ND	3200	ppbv	--	--
	Methylene chloride		ND	8000	ND	8000	ppbv	--	--
	Naphthalene		ND	1600	ND	1600	ppbv	--	--
	n-Hexane		4000	3200	1800 J	3200	ppbv	--	--
	o-Xylene		ND	1600	ND	1600	ppbv	--	--
	Propylene		ND	1600	ND	1600	ppbv	--	--
	Styrene		ND	1600	ND	1600	ppbv	--	--
	tert-Butyl Methyl Ether		ND	1600	ND	1600	ppbv	--	--
	Tetrachloroethene		ND	1600	ND	1600	ppbv	--	--
	Tetrahydrofuran		ND	1600	ND	1600	ppbv	--	--
	Toluene		40000	1600	13000	1600	ppbv	101.9	No
	trans-1,2-Dichloroethene		ND	1600	ND	1600	ppbv	--	--
	trans-1,3-dichloropropene		ND	1600	ND	1600	ppbv	--	--
	Trichloroethene		ND	1600	ND	1600	ppbv	--	--
	Trichlorofluoromethane		ND	1600	ND	1600	ppbv	--	--
	Vinyl acetate		ND	1600	ND	1600	ppbv	--	--
	Vinyl chloride		ND	1600	ND	1600	ppbv	--	--
	Xylenes, Total		1800 J	4800	ND	4800	ppbv	--	--
MA APH	C5-C8 Aliphatic Hydrocarbons		890000	190000	390000	190000	ug/m3	78.1	No
	C9-C10 Aromatic Hydrocarbons		ND	210000	ND	210000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		ND	300000	ND	300000	ug/m3	--	--
<b>SVMW-14-250</b>									
ASTM D2504	Carbon dioxide	3/7/2013	0.17	0.1	0.085 J	0.1	% V/V	--	--
	Carbon Monoxide		ND	0.1	ND	0.1	% V/V	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-14-250</b>									
ASTM D2504	Methane	3/7/2013	ND	0.5	ND	0.5	% V/V	--	--
	Nitrogen		83	0.1	83	0.1	% V/V	0	Yes
	Oxygen		22	0.1	22	0.1	% V/V	0	Yes
EPA TO15	1,1,1-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2,2-Tetrachloroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloro-1,2,2-trifluoroethane		ND	400	ND	400	ppbv	--	--
	1,1,2-Trichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,1-Dichloroethene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2,4-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dibromoethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,2-Dichloroethane		ND	400	ND	400	ppbv	--	--
	1,2-Dichloropropane		ND	400	ND	400	ppbv	--	--
	1,3,5-Trimethylbenzene		ND	400	ND	400	ppbv	--	--
	1,3-Butadiene		ND	400	ND	400	ppbv	--	--
	1,3-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	1,4-Dichlorobenzene		ND	400	ND	400	ppbv	--	--
	2-Butanone		ND	400	490	400	ppbv	--	--
	2-Hexanone		ND	400	ND	400	ppbv	--	--
	4-Methyl-2-pentanone		ND	400	ND	400	ppbv	--	--
	Acetone		980	400	1200	400	ppbv	20.2	Yes
	Benzene		3400	400	3400	400	ppbv	0	Yes
	Benzyl chloride		ND	400	ND	400	ppbv	--	--
	Bromodichloromethane		ND	400	ND	400	ppbv	--	--
	Bromoform		ND	400	ND	400	ppbv	--	--
	Bromomethane		ND	400	ND	400	ppbv	--	--
	Carbon disulfide		ND	400	ND	400	ppbv	--	--
	Carbon tetrachloride		ND	400	ND	400	ppbv	--	--
	Chlorobenzene		ND	400	ND	400	ppbv	--	--
	Chlorodibromomethane		ND	400	ND	400	ppbv	--	--
	Chloroethane		ND	400	ND	400	ppbv	--	--
	Chloroform		ND	400	ND	400	ppbv	--	--
	Chloromethane		ND	400	ND	400	ppbv	--	--
	cis-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	cis-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--

**Appendix B3 - Table 5**  
**Field Duplicate Summary**  
**Soil Vapor Monitoring Event, First Quarter 2013**  
**Kirtland Air Force Base**

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
<b>SVMW-14-250</b>									
EPA TO15	Cyclohexane	3/7/2013	18000	800	32000	3200	ppbv	56	No
	Dichlorodifluoromethane		ND	400	ND	400	ppbv	--	--
	Ethyl acetate		ND	400	ND	400	ppbv	--	--
	Ethylbenzene		1000	800	1100	800	ppbv	9.5	Yes
	Heptane		13000	400	17000	400	ppbv	26.7	Yes
	Hexachlorobutadiene		ND	800	ND	800	ppbv	--	--
	m,p-Xylene		2700	800	2600	800	ppbv	3.8	Yes
	Methylene chloride		ND	2000	ND	2000	ppbv	--	--
	Naphthalene		ND	400	ND	400	ppbv	--	--
	n-Hexane		3600	800	4600	800	ppbv	24.4	Yes
	o-Xylene		860	400	840	400	ppbv	2.4	Yes
	Propylene		ND	400	ND	400	ppbv	--	--
	Styrene		ND	400	ND	400	ppbv	--	--
	tert-Butyl Methyl Ether		ND	400	ND	400	ppbv	--	--
	Tetrachloroethene		ND	400	ND	400	ppbv	--	--
	Tetrahydrofuran		ND	400	ND	400	ppbv	--	--
	Toluene		18000	400	19000	400	ppbv	5.4	Yes
	trans-1,2-Dichloroethene		ND	400	ND	400	ppbv	--	--
	trans-1,3-dichloropropene		ND	400	ND	400	ppbv	--	--
	Trichloroethene		ND	400	ND	400	ppbv	--	--
	Trichlorofluoromethane		ND	400	ND	400	ppbv	--	--
	Vinyl acetate		ND	400	ND	400	ppbv	--	--
	Vinyl chloride		ND	400	ND	400	ppbv	--	--
	Xylenes, Total		3500	1200	3500	1200	ppbv	0	Yes
MA APH	C5-C8 Aliphatic Hydrocarbons		820000	94000	1200000	190000	ug/m3	37.6	Yes
	C9-C10 Aromatic Hydrocarbons		ND	110000	ND	210000	ug/m3	--	--
	C9-C12 Aliphatic Hydrocarbons		95000 J	150000	ND	300000	ug/m3	--	--

Notes: See Appendix B3 - Table 2 for definitions of Qualifiers and Reason Codes.

LOQ limit of quantitation  
 RPD relative percent difference  
 ND not detected at the LOQ  
 ppbv parts per billion volume  
 µg/m<sup>3</sup> micrograms per cubic meter  
 %V/V percent volume per volume

$$\text{RPD formula} = 100 \times |\text{Primary Result} - \text{Duplicate Result}| / ((\text{Primary Result} + \text{Duplicate Result}) / 2)$$

-- Not applicable since RPD not calculated. RPD is only calculated when the analyte is detected at or above the LOQ in both the normal sample and the duplicate sample.

**Appendix B3 - Table 6  
 Technical Completeness  
 Soil Vapor Monitoring Event, First Quarter 2013  
 Kirtland Air Force Base**

Analytical Method	Number of Analytes	Number of Samples	Number of Results	Number of Useable Results	Technical Completeness [Goal = 95 percent]
<b>Environmental Samples</b>					
ASTM D2504	5	317	1585	1585	100.0
EPA TO15	58	317	18386	18386	100.0
MA APH	3	317	951	951	100.0
<b>Field QC Samples</b>					
EPA TO15	58	4	232	232	100.0

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