KDHE Project Code: C6-074-00002: Progress and Monitoring Report for the LBD/SVE/AS System at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-June 2017

Environmental Science Division

United States Department of Agriculture

Work sponsored by Commodity Credit Corporation,
United States Department of Agriculture

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Monitoring Report for the LBD/SVE/AS System at
the Former CCC/USDA Grain Storage Facility,
Agra, Kansas, in January-June 2017**

by
Applied Geosciences and Environmental Management Section
Environmental Science Division, Argonne National Laboratory

March 2018

United States Department of Agriculture

Work sponsored by Commodity Credit Corporation,
United States Department of Agriculture

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Notation

AGEM	Applied Geosciences and Environmental Management
AS	air sparge
BGL	below ground level
°C	degree(s) Celsius
CCC	Commodity Credit Corporation
CD	compact disc
COC	chain-of-custody form
1,2-DCA	1,2-dichloroethane
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
hr	hour(s)
IMWP/D	<i>Interim Measure Work Plan/Design</i>
in.	inch(es)
KDHE	Kansas Department of Health and Environment
L	liter(s)
LDB	large-diameter borehole
µg/kg	microgram(s) per kilogram
µg/L	microgram(s) per liter
µg/m ³	microgram(s) per cubic meter
µS/cm	microsiemen(s) per centimeter
mg/L	milligram(s) per liter
min	minute(s)
mV	millivolt(s)
OMM	operations, maintenance, and monitoring
ppm	part(s) per million
psi	pounds per square inch
PWS	public water supply
scfm	standard cubic feet per minute
SVE	soil vapor extraction
TOC	top of casing
USDA	U.S. Department of Agriculture
VOC	volatile organic compound
WC	water column
yr	year(s)

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1 Introduction

The Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA) operated a grain storage facility at Agra, Kansas, from the 1950s to the early 1970s. No structures remain on the property, and the land is used for agricultural purposes, specifically wheat production. The property is currently owned by the Kyle Railroad Co. and is leased to Mr. Herb VanEaton. The Pro-Ag Marketing grain storage facility is directly south of the former CCC/USDA facility.

In 1985, carbon tetrachloride was detected in groundwater samples collected from Agra public water supply wells PWS-3 and PWS-4, located approximately 2,000 ft south of the former CCC/USDA facility and approximately 1,800 ft south of the Pro-Ag Marketing facility, at levels below the maximum contaminant level of 5.0 µg/L. In 1986, in response to an increase in carbon tetrachloride to 12 µg/L in well PWS-3, the city was required to remove both PWS-3 and PWS-4 from service. The Agra public water supply system is currently served by three other wells (PWS-1, PWS-2, and PWS-5) that are outside the area of contamination.

In 2005, the Environmental Science Division of Argonne National Laboratory conducted a comprehensive investigation of potential contaminant source areas at Agra, on behalf of the CCC/USDA. Data collected during the 2005 investigation identified three primary source areas for the carbon tetrachloride contamination (Argonne 2006). One source is located on the former CCC/USDA property, and the other two sources are on property owned and operated by Pro-Ag Marketing. Detection of nitrate, as nitrogen, in numerous groundwater samples across the Pro-Ag property at concentrations considerably higher than upgradient levels established Pro-Ag as a source of nitrate contamination (KDHE 2008a).

In 2008-2009, to address the carbon tetrachloride contamination detected on its former property, the CCC/USDA implemented a source area cleanup in accord with the document *Interim Measure Work Plan/Design for Agra, Kansas* (IMWP/D; Argonne 2008). The cleanup involves five large-diameter boreholes (LDBs) coupled with soil vapor extraction (SVE) and air sparge

(AS) systems. The work plan was approved by the Kansas Department of Health and Environment (KDHE) in November 2008 (KDHE 2008b), and operation began in May 2009.

Quarterly progress reports for October-December 2008, January-March 2009, and April-June 2009 (Argonne 2009a,b,c) provided detailed information regarding construction and start-up of the cleanup, including the following milestones:

- Construction of the LDB/SVE/AS system, completed on January 7, 2009.
- Pilot testing of the LDB/SVE/AS system on February 11, 2009.
- Start-up of the SVE and AS systems on May 29, 2009.
- Initial operations, maintenance, and monitoring (OMM) sampling event on June 23, 2009.

Previous periodic monitoring reports (Argonne 2010a,b,c,d, 2011a,b,c, 2012, 2013a,b,c, 2014a,b, 2015a,b, 2016a,b, 2017) have tracked the subsequent progress of the cleanup effort. Data for evaluation of system performance are collected primarily by sampling SVE effluents, soil gas monitoring points, and groundwater wells for analysis for volatile organic compounds (VOCs). Table 1.1 provides a detailed chronological summary of activities during implementation of the cleanup.

Monitoring is continuing on the established monthly, quarterly, and twice-yearly schedule, but reporting is now on a twice-yearly schedule (January-June and July-December), as approved by the KDHE (2011).

The current report presents the data generated during OMM activities in January-June 2017.

TABLE 1.1 Activity log for the LDB/SVE/AS system at the former CCC/USDA grain storage facility.

Date	Event	Repair and Maintenance Notes
January 7, 2009	Installation of the five LDBs and associated SVE and AS wells, initiated in December 2008.	–
January 16, 2009	Initial testing of the SVE wells and one AS well to (1) verify installation and operation to design protocols and (2) obtain data for design completion.	–
January 19-27, 2009	Trenching and installation of SVE/AS piping.	–
January 28, 2009	Preliminary sampling of off-gas vapor from LDB1 and LDB5 to verify removal of carbon tetrachloride from the subsurface.	–
February 11, 2009	Pilot testing of the AS wells.	–
February 20-March 2, 2009	Selection and procurement of the equipment and control trailer.	–
March 16, 2009	Completion of the LDB wellhead installations.	–
March 16, 2009	Testing of soils excavated from the LDBs and leveling of the landfarm area.	–
May 9, 2009	Total depth measurement.	12 ft of sediment at base of well AS-5. Attempt to lower video camera into well is stopped at 5 ft BGL because of misalignment of casing connections for air flow lines.
May 13-16, 2009	Installation of five groundwater monitoring wells and three clusters of soil gas monitoring wells (six wells).	–
May 18-19, 2009	Site visit by Argonne.	Trenching repaired to correct subsidence during the winter.
May 19-20, 2009	Installation of groundwater level transducers and soil gas pressure/vacuum sensors, respectively, in the new groundwater and soil gas monitoring wells.	–
May 21, 2009	Baseline sampling of the newly installed monitoring wells.	–
May 27-29, 2009	Installation of the instrumentation trailer and monitoring equipment.	–
May 28, 2009	Initial tilling of the landfarm.	Near-surface connections in SVE and AS lines repaired. Sediment air-lifted from SVE and AS lines. Air flow reestablished.
May 29, 2009	Start-up of the SVE and AS systems.	–

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
June 23, 2009	Initial OMM sampling event by GreenField.	Wellheads painted. SVE-1, SVE-2, SVE-5 ball valves broken; need to be replaced.
July 29-30, 2009	Monthly OMM event by GreenField.	Ball valves replaced.
July 30, 2009	Bi-monthly soil gas sampling by Argonne.	–
August 5, 2009	Issuance of <i>Final Remedial Report</i> by GreenField, for installation of the LDB/SVE/AS system.	–
August 28, 2009	Quarterly OMM event by GreenField.	AS hour meter not working.
August 31, 2009	Telemeter test transmission.	–
September 11, 2009	First daily telemeter transmission.	–
September 18, 2009	Quarterly groundwater sampling and bi-monthly soil gas sampling by Argonne.	–
September 23, 2009	Monthly OMM event by GreenField.	No air flow in AS-5. AS hour meter not working.
October 27, 2009	Servi-Tech installation of groundwater extraction well on Pro-Ag Marketing property.	–
October 27, 2009	Tilling of the landfarm in preparation for closure.	–
October 28, 2009	Monthly OMM event by GreenField.	No air flow in AS-5. AS and SVE hour meters not recording.
November 3, 2009	Quarterly groundwater sampling by Argonne.	–
November 6, 2009	Sampling of the landfarm.	–
November 17, 2009	Argonne observation of Servi-Tech extraction well testing.	–
November 25, 2009	Bi-monthly soil gas sampling by Argonne.	–
November 27, 2009	Quarterly OMM event by GreenField.	AS system deactivated because of worn sparge blower vanes. AS and SVE hour meters not working. No flow in AS-5.
December 13, 2009	Quarterly groundwater sampling by Argonne.	–
December 15, 2009	KDHE approval of landfarm closure.	–
December 18, 2009	Conference call Argonne-GreenField-Geotech regarding overall system performance.	–

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
December 23, 2009	Monthly OMM event by GreenField.	AS blower vanes replaced; operation restored. Timer set for 4 hr on, 4 hr off. Low flow in AS-5.
January 13, 2010	Site visit by GreenField.	SVE and AS hour meters replaced.
January 15, 2010	Six-month system performance review by GreenField.	–
January 28, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
February 12, 2010	Bi-monthly soil gas sampling by Argonne.	–
February 25, 2010	Quarterly OMM event by GreenField.	No air flow in AS-5.
March 23, 2010	Bi-monthly soil gas sampling and quarterly groundwater sampling by Argonne.	–
March 23, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
April 28, 2010	Site visit by Argonne and GreenField.	AS-2 and AS-5 wells redeveloped. Video inspection of these wells attempted. Sediment removed by air-lifting.
April 29, 2010	Monthly OMM event by GreenField.	–
May 27, 2010	Quarterly OMM event by GreenField.	No air flow in AS-5.
May 27, 2010	Quarterly soil gas sampling by Argonne.	–
June 16, 2010	Quarterly groundwater sampling by Argonne.	–
June 22, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
July 28, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
August 5, 2010	Site visit by Argonne.	AS-5 sparge well inspected to evaluate flow; sediment removed by air-lifting.
August 20, 2010	Telemetry report.	AS system shut down due to blower malfunction.
August 27, 2010	Quarterly OMM event by GreenField.	AS off; vanes broken. Old vanes removed; unit cleaned.
September 16, 2010	Quarterly soil gas and groundwater sampling by Argonne.	–
September 28, 2010	Monthly OMM event by GreenField.	AS off; vanes and filters faulty.
October 6, 2010	Site visit by GreenField.	Rotary vanes in AS blower replaced; AS system reactivated.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
October 12, 2010	Closure of the landfarm.	–
October 28, 2010	Monthly OMM event by GreenField.	AS-1 wellhead pad hit by farm tractor; line damaged; deactivated. No air flow in AS-5.
November 19, 2010	Quarterly OMM event by GreenField.	AS-1 inactive because of damage. AS vanes replaced. No air flow in AS-5.
December 16, 2010	Quarterly soil gas and groundwater sampling by Argonne.	–
December 16, 2010	Site visit by Argonne.	1-in.-diameter riser and screen inserted inside the 2-in. casing of the AS-5 well to prevent sediment flow into the screen. Air flow restored.
December 27, 2010	Monthly OMM event by GreenField.	AS-1 inactive because of damage. Air flowing in AS-5.
January 13-14, 2011	Site visit by Argonne.	Repair of the AS-1 wellhead (damaged by farm equipment in fall 2010). Air flowing in AS-5 after successful repair.
February 2, 2011	Monthly OMM event by GreenField.	AS-1 wellhead pad under construction.
March 1, 2011	Quarterly OMM event by GreenField.	AS-1 wellhead pad under construction. AS vanes worn; system deactivated. Low pressure in AS-2.
March 16, 2011	Quarterly soil gas and groundwater sampling by Argonne.	Vanes replaced; AS system operation restored.
March 29, 2011	Monthly OMM event by GreenField.	SVE-1 and AS-1 wellheads covered with dirt because of farm activity; no pressure readings. Little to no pressure in AS-2; leak not found.
April 27, 2011	Monthly OMM event by GreenField.	No pressure in AS-2. Line deactivated.
May 25, 2011	Quarterly OMM event by GreenField.	Standing water over AS-1 wellhead; unable to read pressure. Flooding at GW1, GW3, GW4; unable to sample or measure water levels. AS system deactivated.
June 6-7, 2011	Quarterly soil gas and groundwater sampling by Argonne.	–
August 4, 2011	Telemetry report.	Last telemetry report before a lightning strike interrupts transmittals. AS system inactive.
August 30, 2011	Monthly OMM event by GreenField (first monthly event under second contract).	Well pads covered with soil/mud because of farm work and rain. No pressure and vacuum readings or water level measurements. AS system inactive. Flow meter faulty.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
September 14, 2011	KDHE approval for twice-yearly reporting.	–
September 26, 2011	Monthly OMM event by GreenField.	AS system inactive; vanes and filters faulty.
October 5, 2011	Quarterly soil gas and groundwater sampling by Argonne.	–
October 6, 2011	Site visit by GreenField.	AS vanes replaced; system reactivated.
October 27, 2011	Quarterly OMM event by GreenField (first quarterly event under second contract).	DO meter down; water level probe too large for 1-in. wells; no readings. AS-2 line down; low pressure.
November 11, 2011	Site visit by Argonne and GreenField.	System evaluation and repairs (including AS-2 leaks). Field testing to determine changes in operational strategy for optimization of system performance.
November 28, 2011	Monthly OMM event by GreenField.	No flow in AS-5. Inspection indicates need for high-volume, high-pressure AS compressor.
December 14, 2011	Quarterly soil gas and groundwater sampling by Argonne.	–
December 29, 2011	Monthly OMM event by GreenField.	Air leaks at AS-2 and AS-5 wellheads repaired. No flow in AS-5.
January 26, 2012	Quarterly OMM event by GreenField.	New Sensaphone installed. Low flow in AS-5; ball valve installed. AS vanes replaced.
January 27, 2012	First telemetry report after system replacement.	–
February 21, 2012	Monthly OMM event by GreenField.	Low flow in AS-5.
March 14, 2012	Quarterly soil gas and groundwater sampling by Argonne.	–
March 29, 2012	Monthly OMM event by GreenField.	Low flow in AS-5.
April 26, 2012	Quarterly OMM event by GreenField.	AS vanes replaced. Low flow in AS-5.
April 30, 2012	Telemetry report.	AS system stopped.
May 7-11, 2012	Site visit by GreenField.	System upgrades. Installation of larger AS blower, rewiring. Installation of new valves, relays, timers. AS system restarted.
May 31, 2012	Monthly OMM event by GreenField.	Replaced broken cap on SVE-1. AS-1 and AS-2 set to operate continuously; AS-3, AS-4, AS-5 operate alternately. AS relief valve might need replacement.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
June 27, 2012	Quarterly soil gas and groundwater sampling by Argonne.	–
June 28, 2012	Monthly OMM event by GreenField.	AS relief valve plumbed shut.
July 31, 2012	Quarterly OMM event by GreenField.	AS-5 female adaptor cracked at the wellhead.
August 31, 2012	Monthly OMM event by GreenField.	–
September 27, 2012	Monthly OMM event by GreenField.	Limited testing of mounding at SVE-3, SVE-4, and SVE-5 due to cyclic operation. AS-5 female adaptor cracked and leaking.
October 18, 2012	Quarterly soil gas and groundwater sampling by Argonne.	–
October 30, 2012	Quarterly OMM event by GreenField.	Replaced faulty ball valve for SVE-5 sampling port on SVE manifold. AS system deactivated; vanes and filters faulty.
December 1, 2012	Monthly OMM event by GreenField.	AS system off; vanes and filters faulty.
December 28, 2012	Monthly OMM event by GreenField.	AS system off; vanes and filters faulty.
January 16, 2013	Quarterly soil gas and groundwater sampling by Argonne (for the October-December 2012 quarter).	AS blower vanes replaced; operation restored.
February 1, 2013	Quarterly OMM event by GreenField.	–
February 20, 2013	Site visit by Argonne.	Leak in AS-5 repaired; returned to service the same day.
February 28, 2013	Monthly OMM event by GreenField.	–
March 26, 2013	Monthly OMM event by GreenField.	–
April 2-3, 2013	Quarterly soil gas and groundwater sampling by Argonne (for the January-March 2013 quarter).	–
April 26, 2013	Quarterly OMM event by GreenField.	Brief shutdown of AS system for servicing recorded by telemetry.
May 30, 2013	Monthly OMM event by GreenField.	–
June 27, 2013	Monthly OMM event by GreenField.	–
July 10-11, 2013	Quarterly soil gas and groundwater sampling by Argonne (for the April-June 2013 quarter).	–

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
August 1, 2013	Quarterly OMM event by GreenField.	AS blower vanes replaced. Cracking noted in AS-5 flow meter adaptor.
August 30, 2013	Monthly OMM event by GreenField.	–
September 16-17, 2013	Quarterly soil gas and groundwater sampling by Argonne.	–
September 27, 2013	Monthly OMM event by GreenField.	–
October 29, 2013	Quarterly OMM event by GreenField.	–
November 20 and 25, 2013	Quarterly soil gas and groundwater sampling by Argonne.	–
December 2, 2013	Monthly OMM event by GreenField.	–
December 28, 2013	Monthly OMM event by GreenField.	Cracking noted in base of AS-1 flow meter.
January 31, 2014	Quarterly OMM event by GreenField.	Brief shutdown of AS and SVE systems for servicing; recorded by telemetry. AS vanes and filters replaced.
February 25-26, 2014	Quarterly soil gas and groundwater sampling by Argonne.	AS-5 well redeveloped; AS-5 well line leak-tested.
February 26, 2014	Monthly OMM event by GreenField.	Flow meters on AS-1 and AS-5 replaced.
March 27, 2014	Monthly OMM event by GreenField.	SVE blower operation evaluated. SVE lines and wellhead leak-tested.
April 30, 2014	Quarterly OMM event by GreenField.	–
May 27, 2014	Monthly OMM event by GreenField.	–
June 25 and 27-28, 2014	Quarterly soil gas and groundwater sampling by Argonne.	Damage noted at monitoring wells KMW02, MW02, and PMW-10.
June 26, 2014	Monthly OMM event by GreenField.	–
August 1, 2014	Quarterly OMM event by GreenField.	AS vanes and filters replaced. Faulty flow meter noted on AS-4.
August 28, 2014	Monthly OMM event by GreenField.	–
September 29, 2014	Monthly OMM event by GreenField.	–
September 30, 2014	Quarterly soil gas and groundwater sampling by Argonne.	–
October 1-2, 2014	Site visit by Argonne.	Damage to monitoring wells MW02 and PMW-10 repaired.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
October 29, 2014	Quarterly OMM event by GreenField.	Flow meter on AS-4 repaired.
November 26, 2014	Monthly OMM event by GreenField.	–
December 2, 2014	Quarterly soil gas and groundwater sampling by Argonne.	–
December 31, 2014	Monthly OMM event by GreenField.	Brief shutdown of AS and SVE systems for servicing; recorded by telemetry.
January 23, 2015	Quarterly OMM event by GreenField.	AS vanes and filters replaced.
February 27, 2015	Monthly OMM event by GreenField.	–
March 27, 2015	Twice-yearly soil gas and quarterly groundwater sampling by Argonne.	–
April 1, 2015	Monthly OMM event by GreenField.	–
April 30, 2015	Quarterly OMM event by GreenField.	–
May 30, 2015	Monthly OMM event by GreenField.	–
June 29, 2015	Monthly OMM event by GreenField.	–
June 30, 2015	Quarterly groundwater sampling by Argonne.	–
July 28, 2015	Quarterly OMM event by GreenField.	AS vanes and filters replaced.
August 27, 2015	Monthly OMM event by GreenField.	–
September 29, 2015	Monthly OMM event by GreenField.	–
October 14-16, 2015	Twice-yearly soil gas and quarterly groundwater sampling by Argonne.	–
October 29, 2015	Quarterly OMM event by GreenField.	–
December 1, 2015	Monthly OMM event by GreenField.	–
January 2, 2016	Monthly OMM event by GreenField.	–
January 6, 2016	Quarterly groundwater sampling by Argonne.	–
January 29, 2016	Quarterly OMM event by GreenField.	–
February 18, 2016	Baseline sampling for temporary SVE/AS system shutdown by Argonne.	SVE/AS system temporarily deactivated for supplemental testing and sampling purposes.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
March 16-17, 2016	Twice-yearly soil gas sampling, quarterly groundwater sampling, and 1-month post-shutdown sampling by Argonne.	–
April 29, 2016	Quarterly OMM event by GreenField.	–
July 28-29, 2016	Quarterly groundwater sampling and 5-month post-shutdown sampling by Argonne.	–
July 28, 2016	Quarterly OMM event by GreenField.	–
September 20, 2016	Sampling upon SVE/AS system restart by Argonne.	SVE/AS system restarted after conclusion of supplemental testing and sampling.
September 27, 2016	One-week post-restart sampling by Argonne.	–
September 29, 2016	Monthly OMM event by GreenField.	–
October 18, 2016	Twice-yearly soil gas sampling, quarterly groundwater sampling, and 1-month post-restart sampling by Argonne.	–
October 28, 2016	Quarterly OMM event by GreenField.	AS vanes and filters replaced.
November 29, 2016	Monthly OMM event by GreenField.	–
December 6-7, 2016	Quarterly groundwater sampling by Argonne.	–
December 29, 2016	Monthly OMM event by GreenField.	–
January 30, 2017	Quarterly OMM event by GreenField.	–
February 23, 2017	Monthly OMM event by GreenField.	–
March 6-8, 2017	Twice-yearly soil gas sampling and quarterly groundwater sampling by Argonne.	–
April 3, 2017	Monthly OMM event by GreenField.	–
April 27, 2017	Quarterly OMM event by GreenField.	–
May 30, 2017	Monthly OMM event by GreenField.	–
June 25-July 6, 2017	Quarterly groundwater sampling by Argonne.	–
June 28, 2017	Monthly OMM event by GreenField.	–

2 LDB/SVE/AS System Description and Monitoring Schedule

2.1 LDB/SVE/AS System Description

To mitigate localized carbon tetrachloride contamination in the vadose zone soils at the former CCC/USDA facility and to eliminate ongoing soil-to-groundwater contamination, a cleanup response consisting of LDBs coupled with AS and SVE was implemented. With the installation of five LDBs, soils contaminated with carbon tetrachloride above the KDHE Tier 2 risk-based screening level of 200 µg/kg were effectively removed from the contaminant source area and treated via tilling in the associated landfarm in 2008-2009. The LDBs were backfilled with sand, creating a relatively porous sump for removal of VOCs, as compared to the native silts and clays.

In each LDB, an AS well and an SVE well were installed in and above the saturated zone, respectively. The AS system injects pressurized air into the groundwater. As VOCs are stripped from the groundwater, they enter the extraction zone and are removed by the SVE system. Figure 2.1 shows the locations of the LDB/SVE/AS installations at the former CCC/USDA grain storage facility, along with the soil gas and groundwater monitoring well network established to provide data for evaluation of the long-term effectiveness of the cleanup measure. Figure 2.2 illustrates the internal construction of the LDB/SVE/AS systems in the LDB wells, along with the designed pattern of air flow in the systems. Figure 2.3 shows the configuration of the compressed air and vacuum lines in the equipment trailer.

2.2 LDB/SVE/AS System Monitoring Schedule

Currently, OMM activities are conducted daily, monthly, and quarterly. Table 2.1 summarizes the OMM and reporting requirements for the SVE/AS system at Agra, as specified in the approved IMWP/D (Appendix F in Argonne 2008).

2.2.1 Daily OMM Activities

The automated telemetry system, which became operational on August 31, 2009, provides a daily system status summary to the GreenField office (copied to Argonne).

2.2.2 Monthly OMM Activities

Monthly monitoring by GreenField is occurring approximately every 30 days following system start-up on May 29, 2009. Operational parameters such as manifold and wellhead vacuum, pressure and flow readings, and air dilution flow rates are collected. Extracted soil vapor samples are collected with an appropriate sample pump and analyzed with field testing instrumentation for oxygen, carbon dioxide, and VOCs concentrations. Routine maintenance, such as greasing blowers and changing filters, is conducted as necessary.

2.2.3 Quarterly OMM Activities

Quarterly sampling events by GreenField and by Argonne are occurring approximately every 90 days, following system start-up on May 29, 2009. Well completion information for the sampled wells is summarized in Table 2.2.

Each quarter, Argonne samples groundwater monitoring wells GW1, GW2, GW3, GW4, GW5, MW-J, MW-P, and KMW03, as proposed in the IMWP/D (Argonne 2008). The samples are shipped overnight to the Applied Geosciences and Environmental Management (AGEM) Laboratory, Argonne, Illinois, and analyzed for VOCs by using modified U.S. Environmental Protection Agency (EPA) Method 524.2. Three of the groundwater wells (GW1, GW3, and GW4) are also sampled quarterly by GreenField for laboratory analysis. Dissolved oxygen (DO) levels are recorded quarterly in monitoring wells near the LDB installations.

Air samples are collected quarterly by GreenField from the five SVE wells and from the SVE effluent. These samples are submitted to an outside laboratory for analysis for carbon tetrachloride, chloroform, and 1,2-dichloroethane (1,2-DCA) by EPA Method TO-15.

2.2.4 Twice-Yearly OMM Activities

Twice-yearly sampling of soil gas monitoring points SG1S, SG1D, SG2S, SG2D, SG3S, and SG3D is conducted by Argonne, with analysis by TestAmerica Laboratories, Inc., South Burlington, Vermont, according to EPA Method TO-15. Prior quarterly sampling was reduced to twice-yearly sampling after approval by the KDHE (2015b).

TABLE 2.1 Itemized OMM summary for the SVE/AS system at Agra.

Frequency	Items	Data and Analysis	Conducted by
<i>Preventive OMM and Troubleshooting</i>			
Weekly, as needed	Visit site to identify and solve problems indicated by abnormal operating conditions observed remotely.	As needed.	GreenField
<i>Monthly OMM</i>			
Monthly	(1) Check/repair equipment, gauges, filters, hour meters, record readings.	Collect operation parameters.	GreenField
Monthly	(2) Measure/record wellhead vacuum and pressure readings for all SVE and AS wells.	Record vacuum and pressure readings.	GreenField
Monthly	(3) Record and adjust (if necessary) well flow rates.	Record flow readings.	GreenField
Monthly	(4) Measure water level from SVE and AS wells.	Record water level readings.	GreenField
Monthly	(5) Collect air samples from 5 individual SVE wells.	Field-screen air samples for VOCs (photo-ionization detector [PID] or others) and oxygen (oxygen meter).	GreenField
Monthly	(6) Collect air samples from effluent lines.		GreenField
Monthly	(7) Conduct manufacturer-recommended maintenance.	Document maintenance.	GreenField
<i>Quarterly OMM</i>			
Quarterly	(1) Perform monthly OMM shown above.	As above.	GreenField
Quarterly	(2) Measure/record wellhead vacuum and pressure readings for MW-P, GW1, GW2, GW3, GW4, and GW5.	Record all vacuum and pressure readings.	GreenField
Quarterly	(3) Gauge, purge, and sample wells MW-J, MW-P, KMW03, GW1, GW2, GW3, GW4, and GW5.	Field measurement for DO.	Argonne
Quarterly	(4) Collect air effluent samples from 5 SVE wells.	Lab analysis for VOCs.	GreenField
<i>Soil Gas Monitoring</i>			
Baseline Measurement Once	(1) Collect soil gas sample from all probes prior to system start-up.	Lab analysis for VOCs.	Argonne
Continuous Monitoring 1-4 hr Twice-yearly	(1) Automatically record pressures at all probes. (2) Collect soil gas from all probes. Change from quarterly reporting was approved by KDHE (2015b).	Record pressure readings. Lab analysis for VOCs.	Argonne Argonne
<i>Soil Verification Sampling</i>			
Once	Collect vertical-profile soil samples adjacent to LDBs to determine whether cleanup standards have been met.	Lab analysis for VOCs.	Argonne

TABLE 2.1 (Cont.)

Frequency	Items	Data and Analysis	Conducted by
<i>Reporting</i>			
Quarterly	Provide a summary of all monthly and quarterly data generated by GreenField.	System parameters and field measurements.	GreenField
Twice-yearly	Develop report including GreenField and Argonne data for January-June and for July-December each year. Change from quarterly reporting was approved by the KDHE (2011).	Soil gas field parameters and laboratory results; report production.	Argonne

TABLE 2.2 Construction details for soil gas and groundwater wells sampled to monitor the LDB/SVE/AS system at Agra.

Well	Casing Diameter (in.)	Depth (ft BGL)		Well Depth
		Screen Interval	Filter Pack Interval	
GW1	1	43-53	41-53	53
GW2	1	43-53	41-53	53
GW3	1	43-53	41-53	53
GW4	1	43-53	41-53	53
GW5	1	43-53	41-53	53
-+SG1S	1	20-21	18-21	21
SG1D	1	29-30	27-30	30
SG2S	1	20-21	18-21	21
SG2D	1	29-30	27-30	30
SG3S	1	20-21	18-21	21
SG3D	1	29-30	27-30	30
KMW03 ^a	2	74-89	NR ^b	89
MW-J ^a	2	54-66	54-66	66
MW-P ^a	2	39.5-59	34-59	59

^a Information from WWC-5 Water Well Record forms.

^b NR, not recorded.

FIGURE 2.1 Locations of the LDB/SVE/AS installations at the former CCC/USDA grain storage facility at Agra, Kansas.

FIGURE 2.2 Internal construction of the LDB/SVE/AS system in each LDB installation, along with the designed pattern of air flow within the system.

FIGURE 2.3 The compressed air and vacuum lines in the SVE/AS equipment trailer.

3 OMM Activities in This Reporting Period

Operation, maintenance, and monitoring activities for the current reporting period included the following:

- January 30, 2017 — Quarterly OMM Event by GreenField
- February 23, 2017 — Monthly OMM Event by GreenField
- March 6-8, 2017 — Twice-Yearly Soil Gas and Quarterly Groundwater Sampling by Argonne
- April 3, 2017 — Monthly OMM Event by GreenField
- April 27, 2017 — Quarterly OMM Event by GreenField
- May 30, 2017 — Monthly OMM Event by GreenField
- June 25-July 6, 2017 — Quarterly Groundwater Sampling by Argonne
- June 28, 2017 — Monthly OMM Event by GreenField

3.1 January 30, 2017 — Quarterly OMM Event by GreenField

On January 30, 2017, GreenField conducted a quarterly OMM event. During this event, general maintenance was conducted on the SVE and AS systems.

SVE-1 and SVE-2 now operate continuously, while SVE-3, SVE-4, and SVE-5 are operated on a pulsed schedule, as reported previously (Argonne 2013b). Parameters are collected while SVE-1, SVE-2, and SVE-3 are operating. On January 30, 2017, the SVE system was operating at a pre-filter vacuum of 75.4 in. of water and a manifold flow rate of 163 scfm (standard cubic feet per minute) with the air dilution valve closed. Monitoring activities for the SVE vapors included measuring VOCs, carbon dioxide, and oxygen concentrations on the SVE manifold and on each individual well line. Oxygen concentrations were 20.9% of extract air. Carbon dioxide was at non-detectable levels.

On January 30, 2017, the AS system was operating at a pressure of 18 psi (pounds per square inch) and a cumulative air flow rate of 11.7 scfm. Pressure in the AS wellheads ranged from 4.5 psi to > 10 psi. Air flow rates in the AS lines at the manifold were 3.7-10 scfm.

Groundwater samples collected at treatment area wells GW1, GW3, and GW4 were analyzed for carbon tetrachloride, chloroform, and 1,2-dichloroethane (1,2-DCA). Carbon tetrachloride was detected in all three samples, at concentrations of 57 µg/L (GW1), 1,240 µg/L (GW3), and 242 µg/L (GW4). Chloroform was detected in two of the samples at concentrations of 5.4 µg/L (GW1) and 3.7 µg/L (GW4). Chloroform was not detected in GW3, and 1,2-DCA was not detected in any of the wells.

Vapor samples were collected from each SVE well line at the SVE manifold and from the SVE effluent stack for laboratory analysis of carbon tetrachloride, chloroform, and 1,2-DCA by EPA Method TO-15. Carbon tetrachloride was detected in all six samples, at concentrations of 6.2 µg/m³ (SVE-1), 3.2 µg/m³ (SVE-2), 144 µg/m³ (SVE-3), 16 µg/m³ (SVE-4), 370 µg/m³ (SVE-5), and 64 µg/m³ (SVE effluent). Chloroform and 1,2-DCA were not detected above the method detection limits in any of the vapor samples, with the exception of the sample from SVE-5, which contained chloroform at a concentration of 2.0 µg/m³.

The GreenField report for the quarterly OMM event on January 30, 2017, with associated field notes and field measurements, is in Supplement 1, on the compact disc (CD) inside the back cover of this report.

3.2 February 23, 2017 — Monthly OMM Event by GreenField

On February 23, 2017, GreenField conducted a monthly OMM event. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 60.8 in. of water. The SVE wellhead vacuum readings were 3.5-5.6 in. of water. The AS system was operating at a pressure of 18.7 psi and a cumulative air flow rate of 11.0 scfm.

The GreenField report for the monthly OMM event on February 23, 2017, with associated field notes and field measurements, is in Supplement 2 (on CD).

3.3 March 6-8, 2017 — Twice-Yearly Soil Gas and Quarterly Groundwater Sampling by Argonne

On March 6-8, 2017, in conjunction with annual sitewide monitoring of the downgradient contaminant plume that is reported separately, Argonne conducted twice-yearly soil gas and quarterly groundwater sampling for the January-June 2017 and January-March 2017 monitoring periods, respectively.

Soil gas samples were collected in Summa canisters from each of three nested soil gas monitoring wells (SG1S, SG1D, SG2S, SG2D, SG3S, SG3D) for analysis by TestAmerica with EPA Method TO-15. Soil gas samples associated with the temporary shutdown of the SVE/AS system were also collected during this monitoring event. A background vapor sample was also collected. For the samples analyzed, quality control limits were met for the contaminants of concern.

Sampling of groundwater monitoring wells GW1, GW2, GW3, GW4, GW5, MW-J, MW-P, and KMW03 was conducted using the low-flow procedure. The groundwater samples were shipped overnight to the AGEM Laboratory and analyzed for VOCs. Quality control samples collected to monitor sample handling activities (one equipment rinsate, one field blank, and two trip blanks) and method blanks analyzed with the samples to monitor analytical methodologies were all free of carbon tetrachloride and chloroform contamination. Duplicate analysis of one sample (from MW-J) and analysis of one field replicate (from GW1) by the AGEM Laboratory showed good agreement for detections above the method detection limit.

Verification analysis of three selected samples (from wells GW2 and KMW03, plus trip blank AGQCTB-W-39729) by TestAmerica supported the results from the AGEM Laboratory, with similar concentrations detected for carbon tetrachloride and chloroform between the initial analysis and the associated verification analysis for detections above the respective method detection limits. Neither laboratory detected carbon tetrachloride or chloroform in trip blank AGQCTB-W-39729.

The tables in Appendix A summarize the sequence of soil gas and groundwater sampling activities, the analytical results, and the quality control data for the March 6-8, 2017, sampling event. The soil gas analytical data provided by TestAmerica as sample delivery group 200-37699

are in Supplement 3 (on CD). The groundwater analytical data provided by TestAmerica as sample delivery group 200-37664 are in Supplement 4 (on CD).

3.4 April 3, 2017 — Monthly OMM Event by GreenField

On April 3, 2017, GreenField conducted a monthly OMM event. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 59.4 in. of water. The SVE wellhead vacuum readings were 5.6-8.9 in. of water. The AS system was operating at a pressure of 17 psi and a cumulative air flow rate of 10 scfm.

The GreenField report for the monthly OMM event on April 3, 2017, with associated field notes and field measurements, is in Supplement 5 (on CD).

3.5 April 27, 2017 — Quarterly OMM Event by GreenField

On April 27, 2017, GreenField conducted a quarterly OMM event. During this event, general maintenance was conducted on the SVE and AS systems.

SVE-1 and SVE-2 now operate continuously, while SVE-3, SVE-4, and SVE-5 are operated on a pulsed schedule, as reported previously (Argonne 2013b). Parameters are collected while SVE-1, SVE-2, and SVE-3 are operating. On April 27, 2017, the SVE system was operating at a pre-filter vacuum of 59.1 in. of water and a manifold flow rate of 150 scfm (standard cubic feet per minute) with the air dilution valve closed. Monitoring activities for the SVE vapors included measuring VOCs, carbon dioxide, and oxygen concentrations on the SVE manifold and on each individual well line. Oxygen concentrations were 20.9% of extract air. Carbon dioxide was at non-detectable levels.

On April 27, 2017, the AS system was operating at a pressure of 19.3 psi (pounds per square inch) and a cumulative air flow rate of 11.5 scfm. Pressure in the AS wellheads ranged from 3.3 psi to > 10 psi. Air flow rates in the AS lines at the manifold were 1.8-11.5 scfm.

Groundwater samples collected at treatment area wells GW1, GW3, and GW4 were analyzed for carbon tetrachloride, chloroform, and 1,2-DCA. Carbon tetrachloride was detected in

all three samples, at concentrations of 49 µg/L (GW1), 1,100 µg/L (GW3), and 199 µg/L (GW4). Chloroform was detected in two of the samples at concentrations of 5.6 µg/L (GW1) and 2.9 µg/L (GW4). Chloroform was not detected in GW3, and 1,2-DCA was not detected in any of the wells.

Vapor samples were collected from each SVE well line at the SVE manifold and from the SVE effluent stack for laboratory analysis of carbon tetrachloride, chloroform, and 1,2-DCA by EPA Method TO-15. Carbon tetrachloride was detected in all six samples, at concentrations of 8.2 µg/m³ (SVE-1), 3.6 µg/m³ (SVE-2), 120 µg/m³ (SVE-3), 14 µg/m³ (SVE-4), 294 µg/m³ (SVE-5), and 34 µg/m³ (SVE effluent). Chloroform and 1,2-DCA were not detected above the method detection limits in any of the vapor samples, with the exception of the samples from SVE-3 and SVE-5, which contained chloroform at concentrations of 1.6 µg/m³ and 1.7 µg/m³, respectively.

The GreenField report for the quarterly OMM event on April 27, 2017, with associated field notes and field measurements, is in Supplement 6, on the compact disc (CD) inside the back cover of this report.

3.6 May 30, 2017 — Monthly OMM Event by GreenField

On May 30, 2017, GreenField conducted a monthly OMM event. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 59.1 in. of water. The SVE wellhead vacuum readings were 8.6-12.4 in. of water. The AS system was operating at a pressure of 17.8 psi and a cumulative air flow rate of 11.3 scfm.

The GreenField report for the monthly OMM event on May 30, 2017, with associated field notes and field measurements, is in Supplement 7 (on CD).

3.7 June 25-July 6, 2017 — Quarterly Groundwater Sampling by Argonne

On June 25-July 6, 2017, in conjunction with annual sitewide monitoring of the downgradient contaminant plume that is reported separately, Argonne conducted the quarterly groundwater sampling for the April-June 2017 quarter.

Prior quarterly soil gas sampling was reduced to twice-yearly sampling beginning in the January-June 2015 monitoring period following approval by the KDHE (2015b). Soil gas samples for the January-June 2017 period, therefore, were collected during the March 6-8, 2017, monitoring event discussed in Section 3.3.

Sampling of groundwater monitoring wells GW1, GW2, GW3, GW4, GW5, MW-J, MW-P, and KMW03 was conducted using the low-flow procedure. The groundwater samples were shipped overnight to the AGEM Laboratory and analyzed for VOCs. Quality control samples collected to monitor sample handling activities (one equipment rinsate, one field blank, and two trip blanks) and method blanks analyzed with the samples to monitor analytical methodologies were all free of carbon tetrachloride and chloroform contamination. Duplicate analysis of two samples (from well GW1 and trip blank AGQCTB-W-39862) by the AGEM Laboratory showed good agreement, with average relative percent difference values of approximately 6% and 8% for carbon tetrachloride and chloroform, respectively, for detections above the method detection limit.

Results for verification analysis during this joint quarterly and annual sitewide monitoring event by TestAmerica supported the results from the AGEM Laboratory, but are reported separately since the wells selected for analysis (KMW-01, MW-M, PMW-01, and PMW-10) are sitewide rather than quarterly monitoring locations.

The tables in Appendix B summarize the sequence of groundwater sampling activities, the analytical results, and the quality control data for the quarterly sampling event on June 25-July 6, 2017.

3.8 June 28, 2017 — Monthly OMM Event by GreenField

On June 28, 2017, GreenField conducted a monthly OMM event. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 55.9 in. of water. The SVE wellhead vacuum readings were 5.1-7.2 in. of water. The AS system was operating at a pressure of 17.5 psi and a cumulative air flow rate of 11 scfm.

The GreenField report for the monthly OMM event on June 28, 2017, with associated field notes and field measurements, is in Supplement 8 (on CD).

3.9 Daily Telemetry Reports

The daily reports from the automated telemetry system for January-June 2017 are in Supplement 9 (on CD). The temporary “stopped” status reported on March 9, 2017, was the result of pump testing activities on that day.

3.10 Continuous Soil Gas Pressure Monitoring

To monitor possible vacuum or pressure levels induced locally in the vadose zone soils, absolute pressure recorders were installed in May 2009 in soil gas monitoring points SG1S,D, SG2S,D, and SG3S,D. In addition, a barometric recorder for measurement of local atmospheric pressure fluctuations was placed in the aboveground well housing of nearby well MW-P. The measurements generated by these recorders in January-June 2017 are in Supplement 10 (on CD).

3.11 Continuous Water Level Monitoring

To monitor the detailed local effects of the treatment on groundwater levels, water level recorder units were installed at monitoring wells GW2, GW4, and GW5 in May 2009. These wells are roughly within, upgradient from, and downgradient from the area targeted for treatment. The measurements generated by this automatic monitoring in January-June 2017 are in Supplement 11 (on CD).

4 OMM Results in This Reporting Period

4.1 LDB/SVE/AS System Status

To address a point source of carbon tetrachloride contamination in soil and groundwater at the former CCC/USDA grain storage facility, an LDB/SVE/AS system was implemented in May 2009. Five LDBs (6 ft in diameter) were installed at the identified source area near the SB46 and SB49 locations investigated in 2005 (Argonne 2006). Each of the LDBs was extended to bedrock (approximately 60 ft BGL [below ground level]). A total of approximately 300 cubic yards of contaminated soil was removed from the areas of highest soil impacts. The five LDBs were completed as SVE wells by placing well screens within the permeable backfill. In addition, AS wells were completed to depths of approximately 55 ft BGL in the backfill of each LDB. The SVE/AS system was started in May 2009 and was operated continuously, with some interruptions of the AS system, throughout the initial 2-yr OMM contract with GreenField, from June 2009 to June 2011. The OMM contract with GreenField was extended in 2011 and again in 2013. Operation of the SVE/AS system and monitoring are continuing.

A review of system air flow rates (Table 4.1) and operating pressures (Table 4.2) shows that the system has operated generally within design specifications. Although favorable progress toward effective cleanup has been made, some operational difficulties have occurred, as noted in Table 1.1. The following issues have been discussed previously in greater detail:

- Persistent low flow at AS-5. Well AS-5 was repaired in late 2010 (Argonne 2011c) and again in February 2013 (Argonne 2013c).
- Damage to AS-1 resulting in well line deactivation in fall 2010. Well AS-1 was reconstructed in early 2011 (Argonne 2011c).
- Leaks in the AS-2 line. The leaks were addressed in November 2011 (Argonne 2012), when the lines were excavated and re-sealed. Field tests were also conducted to identify potential changes to optimize system effectiveness (Argonne 2013a,b). System evaluations are discussed in Section 5.

- Periodic shutdown of the AS system due to vane degradation and necessary replacement. A larger AS blower was installed in May 2012 to address this issue (Argonne 2013a,b), and increased oversight has improved the reliability of operation.
- In March 2014, the operation of the SVE blower was tested (Argonne 2014b). The SVE blower was determined to be operating correctly and to be capable of achieving a higher vacuum than the recorded operating levels.

Operation was continuous from January 16, 2013, to February 18, 2016, the date on which a temporary SVE/AS system shutdown for supplemental testing purposes was initiated. This testing was concluded on September 20, 2016, after which operation has continued uninterrupted.

4.2 LDB/SVE/AS System Performance Data

Data for evaluation of treatment system performance are collected primarily by sampling SVE effluents, soil gas monitoring points, and groundwater monitoring wells for VOCs analyses. The baseline data collected from soil gas and groundwater monitoring wells before system start-up showed a localized area of contamination, in which the concentrations of carbon tetrachloride ranged from 6,393 $\mu\text{g/L}$ (GW2) to 9,198 $\mu\text{g/L}$ (GW3) in groundwater and from 19,000 $\mu\text{g/m}^3$ (SG1D) to 6,900 $\mu\text{g/m}^3$ (SG3D) in soil gas. This localized hot-spot area is less than 30 ft in radius, near the center of the system of five AS/SVE installations, as illustrated in Figure 4.1.

The analytical data for the SVE effluent, soil gas, and groundwater samples collected since system start-up in May 2009 show that the initial high concentrations of carbon tetrachloride have moderated and declined significantly, although elevated concentrations (primarily in the SVE effluent concentrations) were again detected briefly following the unexpected shutdown of the AS system due to equipment malfunction from August 20, 2010, to October 6, 2010 (Argonne 2011a). Other AS system shutdowns occurred on May 25, 2011, to October 6, 2011, and on October 30, 2012, to January 16, 2013, with little clear impact on the observed concentrations. The SVE, soil gas, and groundwater VOCs data are summarized in Tables 4.3-4.5. Dissolved oxygen levels in groundwater are reported in Table 4.6. The groundwater analytical data for the current reporting period are illustrated in Figure 4.1.

4.3 Groundwater Level Data

Maps of the sitewide potentiometric surface, as interpreted from manual measurements made on March 6 and 10, 2017, and June 25-July 7, 2017, are shown in Figure 4.2a and Figure 4.2b, respectively. Maps of the treatment area potentiometric surface on the same dates are shown in Figures 4.3a and 4.3b. For consistency, the contours in the treatment area maps were created by taking into account data for all of the sitewide wells in Figure 4.2a,b. Location coordinates for the wells shown are in Appendix C, Table C.1. Selected sitewide manual water level measurements since 2009 are in Table C.2.

TABLE 4.1 Operating flow rates for the SVE and AS systems.

Monitoring Date	SVE Vacuum (in. water)	Air Flow Rate (scfm)					SVE Cumulative
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	
Design Values	51						160
05/29/09	46.0	40	40	40	50	40	210
06/23/09	42.9	66	59	77	47	63	312
07/29/09	40.5	36	37	45	48	33	199
08/28/09	39.4	30	40	40	50	30	190
09/23/09	38.9	60	62	61	45	40	268
10/28/09	38.4	40	23	27	42	44	176
11/27/09	38.9	35	78	89	43	42	287
12/23/09	36.0	38	30	38	45	41	192
01/28/10	39.8	56	21	19	44	14	154
02/25/10	45.0	39	45	36	47	31	198
03/23/10	40.1	47	58	42	42	40	229
04/29/10	41.4	51	71	35	35	35	227
05/27/10	43.4	20	20	40	40	35	155
06/22/10	43.8	59	73	41	40	35	248
07/28/10	38.9	44	69	39	38	44	234
08/27/10	39.1	35	49	35	35	50	204
09/28/10	35.5	43	44	56	52	52	247
10/28/10	26.4	31	55	28	26	54	194
11/19/10	23.6	39	56	37	34	53	219
12/27/10	22.4	44	62	40	38	60	244
02/02/11	26.7	30	51	52	35	45	213
03/01/11	27.8	40	44	42	42	60	228
03/29/11	27.3	40	40	40	40	40	200
04/27/11	28.0	45	40	48	38	38	209
05/25/11	43.8	30	35	45	45	30	185
08/30/11	35.6	<40	<40	<40	42	42	<207
09/26/11	27.7	35	48	42	35	50	210
10/27/11	26.7	38	47	42	40	50	217
11/28/11	33.7	35	50	50	35	40	210
12/29/11	28.3	46	40	40	40	46	248
01/26/12	31.0	40	50	42	40	40	212
02/21/12	32.8	35	40	40	35	35	185
03/29/12	32.1	35	45	40	40	40	200
04/26/12	31.6	40	45	40	45	40	210
05/31/12	40.5	40	40	100	a	a	240
06/28/12	41.3	40	40	95	a	a	175
07/31/12	45.5	40	40	95	95	95	175
08/31/12	44.5	40	45	90	a	a	175
09/27/12	43.8	45	45	90	a	a	180
10/30/12	41.3	50	50	90	90	90	190
12/01/12	39.7	47	50	96	a	a	193
12/28/12	40.6	45	47	107	a	a	199
02/01/13	39.0	48	47	105	67	70	200
02/28/13	36.7	50	40	105	a	a	195
03/26/13	38.0	50	40	120	a	a	210
04/26/13	26.9	40	40	40	40	40	200
05/30/13	35.9	60	65	60	a	a	185
06/27/13	32.2	60	60	85	a	a	205
08/01/13	35.0	50	50	80	80	80	180
08/30/13	35.6	50	50	85	a	a	185

TABLE 4.1 (Cont.)

Monitoring Date	SVE Vacuum (in. water)	Air Flow Rate (scfm)					SVE Cumulative
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	
09/27/13	60.7	40	40	40	40	39	151
10/29/13	22.2	44	41	40	40	40	180
12/02/13	41.5	40	40	100	a	a	180
12/28/13	41.5	45	45	100	a	a	190
01/31/14	40.3	45	45	106	77	105	196
02/26/14	40.2	45	45	105	a	a	195
03/27/14	42.4	50	50	85	a	a	185
04/30/14	41.7	50	50	85	a	a	185
05/27/14	39.4	50	50	83	a	a	183
06/26/14	41.1	50	50	81	a	a	181
08/01/14	41.7	50	50	78	90	91	178
08/28/14	44.8	50	50	75	a	a	175
09/29/14	43.1	50	50	77	a	a	177
10/29/14	43.1	50	50	81	95	95	181
11/26/14	44.7	50	50	80	a	a	180
12/31/14	43.2	50	50	83	a	a	183
01/23/15	41.9	53	53	80	100	100	186
02/27/15	47.7	50	50	80	a	a	180
04/01/15	46.2	50	50	95	a	a	195
04/30/15	45.6	50	50	76	105	103	176
05/30/15	48.9	50	50	75	a	a	175
06/29/15	46.1	50	50	75	a	a	175
07/28/15	47.4	50	50	73	89	94	173
08/27/15	31.4	50	50	50	a	a	150
09/29/15	30.7	50	50	53	a	a	153
10/29/15	31.0	50	50	54	70	70	154
12/01/15	32.7	50	50	55	a	a	160
01/02/16	32.6	50	50	50	a	a	150
01/29/16	32.6	40	50	50	55	55	140
04/29/16	b	b	b	b	b	b	b
07/28/16	b	b	b	b	b	b	b
09/29/16	66.4	55	55	65	off	off	175
10/27/16	64.6	55	55	65	60	65	175
11/29/16	65	55	55	65	off	off	175
12/29/16	76.7	55	55	55	off	off	165
01/30/17	84.4	50	50	50	50	50	150
02/23/17	60.8	50	50	50	off	off	150
04/03/17	59.4	50	50	50	off	off	150
04/27/17	59.1	50	50	50	50	50	150
05/30/17	59.1	50	50	50	off	off	150
06/28/17	55.9	50	50	50	off	off	150
	AS Operating Pressure (psi)	Air Flow Rate (scfm)					AS Cumulative
		AS-1	AS-2	AS-3	AS-4	AS-5	
Design Values	12						25
05/29/09	8.0	5.0	5.0	5.0	5.0	5.0	25.0
06/23/09	10.8	3.5	4.0	4.0	3.7	3.0	18.2
07/29/09	11.4	6.0	1.5	5.0	1.5	3.2	17.2

TABLE 4.1 (Cont.)

	AS Operating Pressure (psi)	Air Flow Rate (scfm)					AS Cumulative
		AS-1	AS-2	AS-3	AS-4	AS-5	
08/28/09	11.0	6.0	2.0	7.0	3.0	2.0	20.0
09/23/09	11.3	6.9	1.1	5.0	1.5	0.0	14.5
10/28/09	11.4	9.0	0.5	3.2	1.0	0.0	13.7
11/27/09	12.0	3.6	3.5	2.2	3.6	0.0	12.9
12/23/09	14.0	4.0	4.0	4.0	4.0	1.5	17.5
01/28/10	12.7	5.0	3.7	4.7	5.0	0.0	18.4
02/25/10	12.0	4.9	3.0	4.8	4.5	0.0	17.2
03/23/10	11.6	4.8	2.0	5.0	4.5	0.0	16.3
04/29/10	12.7	3.0	3.0	3.0	3.0	3.0	15.0
05/27/10	11.4	4.2	3.7	4.9	1.8	0.0	14.6
06/22/10	11.4	5.0	2.4	4.0	3.0	0.0	14.4
07/28/10	11.1	4.8	2.8	4.0	2.2	0.0	13.8
08/27/10	b	b	b	b	b	b	b
09/28/10	b	b	b	b	b	b	b
10/28/10	10.8	5.9	3.7	5.0	3.6	0.0	18.2
11/19/10	10.4	b	4.0	6.8	4.6	0.0	15.4
12/27/10	11.0	b	5.0	3.5	4.0	3.0	15.5
02/02/11	10.8	3.0	3.7	2.0	2.0	3.3	14.0
03/01/11	10.0	3.0	3.0	3.0	3.0	2.5	14.5
03/29/11	11.1	4.0	4.0	4.0	1.0	4.0	17.0
04/27/11	11.1	3.3	b	3.0	2.0	3.5	11.8
05/25/11	11.9	3.5	b	2.8	2.5	4.5	13.3
08/30/11	b	b	b	b	b	b	b
09/26/11	b	b	b	b	b	b	b
10/27/11	13.0	4.0	b	5.0	4.0	3.0	16.0
11/28/11	13.5	4.0	4.0	4.0	4.0	0.0	16.0
12/29/11	11.0	4.0	4.0	4.0	4.0	0.0	16.0
01/26/12	14.0	3.0	3.0	3.0	3.0	0.5	12.5
02/21/12	14.0	2.8	2.8	1.3	2.8	0.5	10.2
03/29/12	13.0	3.0	3.0	1.5	3.0	0.5	11.0
04/26/12	13.0	2.5	3.0	3.0	3.0	1.0	12.5
05/31/12	16.0	2.0	2.0	3.0	a	a	7.0
06/28/12	18.0	4.0	5.0	6.0	a	a	15.0
07/31/12	16.0	4.0	5.0	2.0	5.0	7.0	23.0
08/31/12	19.9	6.0	6.0	1.0	a	a	13.0
09/27/12	20.0	5.0	5.0	1.5	a	a	11.5
10/30/12	20.0	4.0	4.0	2.0	7.8	2.5	10.0
12/01/12	b	b	b	b	b	b	b
12/28/12	b	b	b	b	b	b	b
02/01/13	13.5	3.0	3.7	3.2	8.2	2.0	20.4
02/28/13	20.0	5.0	5.0	4.0	a	a	14.0
03/26/13	21.0	4.0	4.0	2.0	a	a	10.0
04/26/13	21.0	3.0	3.0	0.5	2.5	0.5	6.0
05/30/13	21.5	3.5	2.5	1.5	a	a	7.5
06/27/13	19.0	4.0	4.0	0.0	a	a	8.0
08/01/13	19.0	3.5	4.0	<0.5	7.0	c	8.0
08/30/13	20.0	4.0	4.0	1.0	a	a	9.0
09/27/13	21.0	3.8	4.0	0.5	3.5	c	7.8
10/29/13	18.5	3.5	3.7	0.5	3.7	0.5	11.9
12/02/13	15.0	6.0	6.0	0.0	a	a	12.0
12/28/13	18.5	3.5	3.5	0.5	a	a	7.5
01/31/14	19.0	3.5	3.5	1.0	4.5	6.3	17.0
02/26/14	17.0	5.0	5.0	7.0	a	a	17.0

TABLE 4.1 (Cont.)

	AS Operating Pressure (psi)	Air Flow Rate (scfm)					AS Cumulative
		AS-1	AS-2	AS-3	AS-4	AS-5	
03/27/14	17.9	5.0	5.0	3.0	a	a	13.0
04/30/14	18.2	5.3	2.0	2.0	9.0	10.0	13.1
05/27/14	18.5	5.2	5.2	1.5	a	a	11.9
06/26/14	17.0	4.9	5.1	1.7	a	a	11.7
08/01/14	16.1	5.0	5.0	1.7	c	8.0	11.7
08/28/14	16.7	5.5	8.5	2.0	a	a	16.0
09/29/14	16.0	6.0	8.0	2.0	a	a	16.0
10/29/14	16.2	6.7	7.7	1.7	10.1	9.4	16.1
11/26/14	14.4	7.0	7.0	2.0	a	a	16.0
12/31/14	14.3	6.8	5.5	1.8	a	a	14.1
01/23/15	13.5	6.6	5.0	1.8	8.8	8.0	13.4
02/27/15	16.5	7.9	7.0	2.0	a	a	16.9
04/01/15	15.5	6.5	6.5	1.8	a	a	14.8
04/30/15	15.2	6.2	6.2	2.0	9.9	9.3	14.4
05/30/15	15.5	6.3	6.0	2.0	a	a	14.3
06/29/15	14.3	6.1	5.8	2.0	a	a	13.9
07/28/15	14.2	6.0	6.0	2.2	8.9	8.2	14.2
08/27/15	18.0	7.7	5.0	3.0	a	a	15.7
09/29/15	17.0	7.0	4.8	3.3	a	a	15.1
10/29/15	17.0	6.7	4.7	3.2	11.0	10.5	14.6
12/01/15	15.0	5.7	5.0	3.0	a	a	13.7
01/02/16	16.5	4.0	4.0	3.2	a	a	11.2
01/29/16	15.5	4.0	4.0	3.3	a	a	11.3
04/29/16	c	c	c	c	c	c	c
07/28/16	c	c	c	c	c	c	c
09/29/16	17	4	4	3.5	off	off	11.5
10/28/16	16.2	4	4	3.5	11	10.2	11.5
11/29/16	19.8	4	4	4.2	off	off	12.2
12/29/16	20	4.2	4.2	3.2	off	off	11.6
01/30/17	18	4	4	3.7	d	10	11.7
02/23/17	18.7	4	4	3	off	off	11
04/03/17	17	4.5	4.5	1	off	off	10
04/27/17	19.3	5.4	4.3	1.8	d	10	11.5
05/30/17	17.8	5	3.8	2.5	off	off	11.3
06/28/17	17.5	4.9	3.6	2.5	off	off	11

^a Line deactivated.

^b Blower faulty; system deactivated.

^c System deactivated.

^d Flow meter faulty or broken.

TABLE 4.2 Operating pressures for the SVE and AS systems.

Monitoring Date	SVE Vacuum (in. water)	SVE Vacuum (in. water) at Manifold						SVE Vacuum (in. water) at Wellhead					
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Manifold Average	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Wellhead Average
Design Value	51												
05/29/09	46.0	34.6	32.8	31.5	29.2	34.8	32.6	34.6	31.1	29.7	28.5	34.4	31.7
06/23/09	42.9	34.0	34.6	31.6	29.1	33.5	32.6	31.6	32.9	28.9	25.6	31.3	30.1
07/29/09	40.5	30.2	31.8	28.2	26.9	29.4	29.3	28.2	29.3	24.7	23.1	26.9	26.4
08/28/09	39.4	29.0	30.7	26.6	26.6	28.7	28.3	26.0	27.5	23.8	21.6	25.1	24.8
09/23/09	38.9	27.0	29.2	26.1	24.6	26.1	26.6	24.6	26.7	23.1	21.4	23.4	23.8
10/28/09	38.4	25.7	29.1	26.9	24.9	26.0	26.5	22.9	25.4	24.0	21.5	23.4	23.4
11/27/09	38.9	26.3	29.6	28.3	25.5	25.8	27.1	24.0	27.9	26.0	22.7	22.7	24.7
12/23/09	36.0	18.2	26.1	24.4	22.2	19.2	22.0	16.0	22.5	19.0	18.3	17.5	18.7
01/28/10	39.8	27.0	30.1	29.5	26.8	28.9	28.5	24.3	29.8	27.9	21.8	26.5	26.1
02/25/10	40.3	30.7	34.9	34.2	31.9	33.6	33.1	23.2	31.8	26.6	27.8	30.6	28.0
03/23/10	40.1	29.5	31.3	25.7	24.2	27.0	27.5	28.4	28.9	23.4	20.2	22.4	24.7
04/29/10	41.4	32.3	31.1	28.9	19.7	20.8	26.6	30.6	29.4	25.9	17.3	19.7	24.6
05/27/10	43.4	35.7	33.8	30.6	21.6	30.5	30.4	33.5	30.8	26.9	19.1	28.5	27.8
06/22/10	43.8	36.7	34.9	31.0	22.4	30.9	31.2	35.2	33.0	27.7	19.9	28.3	28.8
07/28/10	38.9	32.0	29.0	26.1	18.6	25.9	26.3	30.7	26.8	23.1	16.0	22.3	23.8
08/27/10	39.1	31.5	29.0	28.0	19.3	26.1	26.8	30.0	26.5	25.1	16.9	21.4	24.0
09/28/10	35.5	28.1	22.9	25.8	17.8	22.5	23.4	26.6	19.4	23.3	16.0	18.1	20.7
10/28/10	26.4	16.0	13.7	18.2	14.2	13.4	15.1	14.4	9.3	15.2	12.8	8.6	12.1
11/19/10	23.6	10.9	10.9	15.2	12.8	10.6	12.1	8.5	6.1	13.4	10.9	5.9	9.0
12/27/10	22.4	11.6	11.8	16.2	18.5	10.0	13.6	4.0	4.2	10.5	7.2	5.9	6.4
02/02/11	26.7	15.3	11.0	3.2	13.3	6.4	9.8	13.6	—	—	—	—	—
03/01/11	27.8	17.3	12.4	4.5	16.2	11.3	12.3	—	8.3	4.3	10.0	7.2	7.5
03/29/11	27.3	11.3	9.5	2.6	13.7	8.0	9.0	—	6.8	1.3	11.0	5.0	6.0
04/27/11	28.0	11.7	11.9	3.3	14.7	9.9	10.3	10.3	9.3	2.3	12.8	7.9	8.5
05/25/11	43.8	38.3	32.9	6.1	29.6	31.8	27.7	—	—	—	—	—	—
08/30/11	35.6	26.2	25.9	18.1	22.1	20.5	22.6	—	—	—	—	—	—
09/26/11	27.7	14.9	15.7	11.5	14.9	8.4	13.1	11.4	13.2	8.2	13.3	3.9	10.0
10/27/11	26.7	8.1	10.8	9.7	12.7	7.2	9.7	7.3	4.5	5.9	10.5	2.7	—
11/28/11	33.7	24.3	14.3	11.3	10.0	15.1	15.0	22.1	11.7	8.6	7.9	14.6	13.0
12/29/11	28.3	15.9	10.2	8.3	10.0	12.1	11.3	13.7	7.8	5.1	8.6	9.4	8.9
01/26/12	31.0	19.1	18.1	12.7	6.7	12.9	13.9	12.1	6.4	2.9	2.9	7.2	6.3
02/21/12	32.8	16.5	13.2	8.6	7.7	12.6	11.7	13.6	7.9	6.8	4.7	8.0	8.2
03/29/12	32.1	17.5	13.2	10.0	10.2	14.1	13.0	14.3	8.9	6.7	7.2	10.5	9.5

TABLE 4.2 (Cont.)

Monitoring Date	SVE Vacuum (in. water)	SVE Vacuum (in. water) at Manifold						SVE Vacuum (in. water) at Wellhead					
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Manifold Average	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Wellhead Average
04/26/12	31.6	19.1	13.7	9.4	10.0	14.8	13.4	14.8	9.7	5.1	7.2	10.2	9.4
05/31/12	40.5	13.6	18.0	25.9	a	a	19.2	13.5	17.0	12.1	a	a	14.2
06/28/12	41.3	12.7	12.9	26.4	a	a	17.3	10.2	9.4	12.7	a	a	10.8
07/31/12	45.5	20.6	12.6	31.4	32.0	31.6	25.6	18.2	9.8	20.2	20.8	18.0	17.4
08/31/12	44.5	17.6	10.5	30.3	a	a	19.5	14.8	7.2	18.0	a	a	13.3
09/27/12	43.8	14.5	7.6	29.0	a	a	17.0	11.3	4.1	16.3	a	a	10.6
10/30/12	41.3	6.0	9.5	26.1	25.5	26.6	18.7	5.8	7.9	12.2	12.0	12.4	10.1
12/01/12	39.7	7.8	7.2	24.8	a	a	13.3	3.5	2.4	7.8	a	a	4.6
12/28/12	40.6	8.2	7.4	24.9	a	a	13.5	3.5	2.6	7.1	a	a	4.4
02/01/13	39.0	8.8	6.9	24.1	14.4	15.2	13.9	3.1	2.2	7.3	8.2	9.5	6.1
02/28/13	36.7	7.8	5.7	21.5	a	a	11.7	2.7	2.0	6.8	a	a	3.8
03/26/13	38.0	9.7	7.3	25.8	a	a	14.3	4.2	3.5	24.2	a	a	10.6
04/26/13	26.9	8.7	10.3	8.6	8.2	10.0	9.2	4.3	5.3	8.2	6.2	7.3	6.3
05/30/13	35.9	11.1	12.7	11.3	a	a	11.7	5.5	6.4	5.1	a	a	5.7
06/27/13	32.2	10.4	9.2	18.1	a	a	12.6	5.6	4.3	6.8	a	a	5.6
08/01/13	35.0	11.4	9.3	19.4	18.0	19.3	15.5	6.7	4.5	9.3	9.6	10.0	8.0
08/30/13	35.6	11.3	8.5	21.6	a	a	13.8	6.8	4.3	10.7	a	a	7.3
09/27/13	60.7	19.3	6.3	8.6	7.6	8.9	10.1	4.2	3.3	5.4	5.2	6.0	4.8
10/29/13	22.2	6.4	5.7	8.2	7.2	8.5	7.2	3.1	2.7	4.8	4.4	5.4	4.1
12/02/13	41.5	5.3	5.3	27.0	a	a	12.5	2.2	2.2	9.8	a	a	4.7
12/28/13	41.5	6.8	6.5	26.8	a	a	13.4	2.6	2.6	7.6	a	a	4.3
01/31/14	40.3	6.1	6.5	25.6	17.8	26.7	16.5	2.2	2.2	14.7	a	a	6.4
02/26/14	40.2	6.8	6.8	25.5	a	a	13.0	2.8	3.0	14.5	a	a	6.8
03/27/14	42.4	7.1	7.0	17.9	a	a	10.7	3.4	3.4	5.9	a	a	4.2
04/30/14	41.7	7.3	7.8	17.4	6.8	a	9.8	3.5	3.8	6.4	a	a	4.6
05/27/14	39.4	6.9	7.0	16.8	a	a	10.2	3.1	3.2	5.9	a	a	4.1
06/26/14	41.1	8.1	8.2	18.9	a	a	11.7	4.0	4.1	8.2	a	a	5.4
08/01/14	41.7	8.5	8.3	20.1	24.8	24.0	17.1	4.5	4.2	10.1	13.4	11.5	8.7
08/28/14	44.8	11.3	9.5	24.3	a	a	15.0	6.6	5.5	15.1	a	a	9.1
09/29/14	43.1	7.7	9.0	22.2	a	a	13.0	4.8	3.7	12.5	a	a	7.0
10/29/14	43.1	7.8	7.3	21.4	25.5	24.8	17.4	3.6	3.1	10.6	13.5	11.1	8.4
11/26/14	44.7	8.1	8.4	20.4	a	a	12.3	2.9	2.9	7.3	a	a	4.4
12/31/14	43.2	8.4	7.8	19.7	a	a	12.0	2.5	2.7	5.5	a	a	3.6
01/23/15	41.9	9.1	8.8	18.4	23.4	22.9	16.5	3.0	2.6	6.9	7.1	7.2	5.4
02/27/15	47.7	8.0	6.8	17.8	a	a	10.9	2.5	2.2	8.9	a	a	4.5
04/01/15	46.2	7.4	6.6	18.0	a	a	10.7	3.2	2.6	6.7	a	a	4.2

TABLE 4.2 (Cont.)

Monitoring Date	SVE Vacuum (in. water)	SVE Vacuum (in. water) at Manifold						SVE Vacuum (in. water) at Wellhead					
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Manifold Average	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Wellhead Average
04/30/15	45.6	7.1	7.3	16.7	23.5	23.5	15.6	2.9	3.3	7.5	9.5	8.3	6.3
05/30/15	48.9	9.3	10.2	20.2	a	a	13.2	4.8	5.4	10.9	a	a	7.0
06/29/15	46.1	7.8	7.7	17.6	a	a	11.0	4.0	3.9	8.6	a	a	5.5
07/28/15	47.4	9.6	9.6	20.2	28.8	26.7	19.0	5.6	5.7	11.9	16.1	13.0	10.5
08/27/15	31.4	8.5	8.6	11.9	a	a	9.7	4.5	4.7	7.3	a	a	5.5
09/29/15	30.7	8.1	8.0	11.2	a	a	9.1	4.1	4.0	6.2	a	a	4.8
10/29/15	31.0	7.5	7.4	11.1	15.2	14.9	11.2	3.3	3.4	5.9	8.5	6.6	5.5
12/01/15	32.7	7.8	8.3	12.1	a	a	9.4	3.2	3.5	5.9	a	a	4.2
01/02/16	32.6	10.3	8.5	10.1	a	a	9.6	5.3	4.3	5.9	a	a	5.2
01/29/16	32.6	9.7	11.2	12.8	10.5	11.2	11.1	7.1	6.8	8.7	6.3	5.9	7.0
04/29/16	b	b	b	b	b	b	b	b	b	b	b	b	b
07/28/16	b	b	b	b	b	b	b	b	b	b	b	b	b
09/29/16	66.4	12.8	12.3	24	off	off	16.4	6	5.8	13.9	off	off	8.6
10/28/16	64.6	11.6	11.3	21.8	18.3	21.1	16.8	5.4	5.1	12.3	9.6	10.3	8.5
11/29/16	65	11.8	11.8	21.4	off	off	15.0	4.9	3.8	10.8	off	off	6.5
12/29/16	76.7	12.3	12.3	21.1	off	off	15.2	4.6	5.4	11	off	off	7.0
01/30/17	84.4	12.6	11.4	16.5	15.3	38.1	18.8	7	5.7	9	9	33.1	12.8
02/23/17	60.8	7.2	8.1	12.7	off	off	9.3	3.5	3.5	5.6	off	off	4.2
04/03/17	59.4	10.5	10.5	16.2	off	off	12.4	5.6	5.9	8.9	off	off	6.8
04/27/17	59.1	10.8	7.8	11.6	11.6	26.4	13.6	7.2	4.3	6.4	6.7	21.3	9.2
05/30/17	59.1	16.2	13.2	15.6	off	off	15.0	12.4	8.6	11	off	off	10.7
06/28/17	55.9	10.8	8.6	11.8	off	off	10.4	7	5.1	7.2	off	off	6.4
	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
Design Value	12												
05/29/09	8.0	5.5	8.0	8.0	9.0	8.0	7.7	5.0	7.5	7.2	8.6	7.9	7.2
06/23/09	10.8	5.9	8.8	7.8	8.4	8.9	8.0	5.3	8.3	7.0	8.2	8.4	7.4
07/29/09	11.4	6.1	8.3	8.9	8.2	8.9	8.1	5.3	8.2	8.1	8.0	8.7	7.7
08/28/09	11.0	5.9	8.3	8.5	8.4	8.7	7.9	4.1	8.1	8.1	8.1	8.5	7.4

TABLE 4.2 (Cont.)

	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
09/23/09	11.3	5.9	8.2	8.3	8.1	8.5	7.8	5.0	8.1	7.8	8.0	8.4	7.5
10/28/09	11.4	5.5	8.2	8.2	8.2	8.3	7.7	4.0	8.0	7.9	8.0	8.2	7.2
11/27/09	12.0	6.0	8.7	8.9	8.7	9.0	8.2	5.8	8.6	8.8	8.5	8.9	8.1
12/23/09	14.0	5.0	8.5	7.4	8.3	10.0	7.8	4.3	8.1	7.3	8.2	8.3	7.2
01/28/10	12.7	4.8	8.3	7.2	8.3	8.5	7.4	4.6	8.1	6.7	7.8	8.4	7.1
02/25/10	12.9	5.0	8.4	7.2	8.4	8.5	7.5	4.7	8.2	6.8	8.0	8.5	7.2
03/23/10	11.6	4.8	8.5	6.9	8.4	8.6	7.4	4.5	8.4	6.6	8.1	8.6	7.2
04/29/10	12.7	5.5	8.6	7.4	8.5	10.0	8.0	5.3	8.4	7.2	8.3	9.6	7.8
05/27/10	11.4	5.7	8.9	7.8	8.3	9.0	7.9	5.1	8.5	7.5	8.3	8.8	7.6
06/22/10	11.4	6.2	8.7	8.7	8.4	8.8	8.2	5.5	8.5	8.3	8.1	8.8	7.9
07/28/10	11.1	1.1	8.9	9.0	8.6	10.0	7.5	0.6	8.5	8.3	7.9	8.8	6.8
08/27/10	b	b	b	b	b	b	b	b	b	b	b	b	b
09/28/10	b	b	b	b	b	b	b	b	b	b	b	b	b
10/28/10	10.8	0.9	8.4	8.4	8.5	8.6	6.9	0.3	8.3	7.7	8.3	8.4	6.6
11/19/10	10.4	a	8.9	8.8	8.9	10.0	7.3	—	8.6	8.1	8.5	8.9	6.8
12/27/10	11.0	a	9.1	9.2	8.5	9.3	7.2	—	8.7	8.7	8.4	9.0	7.0
02/02/11	10.8	5.4	8.8	8.7	8.5	10.0	8.3	4.9	8.4	8.4	8.4	9.0	7.8
03/01/11	10.0	5.3	2.0	8.0	8.7	9.0	6.6	—	0.5	7.6	8.5	8.1	6.2
03/29/11	11.1	4.6	0.4	7.8	10.0	10.0	6.6	—	0.1	7.5	7.9	9.0	6.1
04/27/11	11.1	5.5	a	8.2	8.6	10.0	8.1	5.0	a	8.1	8.3	8.8	7.5
05/25/11	11.9	5.7	a	10.0	8.7	10.0	8.6	—	a	c	c	c	c
08/30/11	b	b	b	b	b	b	b	b	b	b	b	b	b
09/26/11	b	b	b	b	b	b	b	b	b	b	b	b	b
10/27/11	13.0	5.8	a	8.0	8.7	11.6	8.5	5.5	a	7.7	8.5	11.3	8.2
11/28/11	13.5	5.7	9.0	8.3	8.8	10.0	8.4	5.1	9.0	8.0	8.6	10.0	8.1
12/29/11	11.0	5.3	9.0	10.6	8.6	11.1	8.9	5.3	9.0	10.2	8.4	11.1	8.8
01/26/12	14.0	5.5	8.7	12.5	9.0	12.5	9.6	5.3	8.7	12.4	8.8	12.5	9.5
02/21/12	14.0	5.7	9.0	10.0	10.0	10.0	8.9	5.2	8.6	10.0	8.3	10.0	8.4
03/29/12	13.0	5.9	9.2	11.7	8.9	11.8	9.5	5.4	8.7	10.7	8.1	11.3	8.8
04/26/12	13.0	5.6	9.0	11.1	8.7	11.6	9.2	5.2	8.7	11.0	8.2	11.6	8.9
05/31/12	16.0	5.4	8.6	14.0	a	a	9.3	5.2	8.4	13.8	a	a	9.1
06/28/12	18.0	5.3	8.7	15.7	a	a	9.9	5.2	8.1	15.1	a	a	9.5
07/31/12	16.0	5.3	8.4	10+	8.3	10+	8.4	5.0	8.2	10+	7.8	10+	8.2
08/31/12	19.9	5.4	8.8	7.7	a	a	7.3	4.9	8.3	7.7	a	a	6.9
09/27/12	20.0	5.3	8.5	10+	a	a	7.9	4.9	8.1	10+	a	a	7.7
10/30/12	20.0	5.3	8.3	10+	8.9	10+	8.5	5.0	8.0	10+	8.1	10+	8.2

TABLE 4.2 (Cont.)

	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
12/01/12	b	b	b	b	b	b	b	b	b	b	b	b	b
12/28/12	b	b	b	b	b	b	b	b	b	b	b	b	b
02/01/13	13.5	5.1	8.4	10+	10+	10+	8.7	4.9	8.1	10+	8.2	10+	8.2
02/28/13	20.0	4.7	8.0	10+	a	a	7.6	4.4	7.6	10+	a	a	7.3
03/26/13	21.0	4.6	7.7	10+	a	a	7.4	4.4	7.3	10+	a	a	7.2
04/26/13	21.0	4.9	8.0	10+	7.9	10+	8.2	4.8	7.8	10+	7.9	10+	8.1
05/30/13	21.5	4.9	7.9	10+	a	a	7.6	4.6	7.5	10+	a	a	7.3
06/27/13	19.0	4.9	8.4	10+	a	a	7.8	4.5	7.9	10+	a	a	7.5
08/01/13	19.0	4.7	7.6	10+	8.8	10+	8.2	4.4	7.3	10+	7.2	10+	7.8
08/30/13	20.0	4.7	7.8	10+	a	a	7.5	4.2	7.3	10+	a	a	7.2
09/27/13	21.0	4.5	7.8	10+	7.5	10+	8.0	4.3	7.6	10+	7.4	10+	7.8
10/29/13	18.5	4.7	7.9	10+	7.7	10+	8.1	4.5	7.6	10+	7.5	10+	7.9
12/02/13	15.0	4.4	7.8	10+	a	a	7.4	4.0	7.4	10+	a	a	7.1
12/28/13	18.5	4.7	7.9	10+	a	a	7.5	4.6	7.8	10+	a	a	7.4
01/31/14	19.0	4.3	7.7	6.4	7.6	10+	7.2	4.1	7.4	5.3	a	a	5.6
02/26/14	17.0	4.2	7.7	10+	a	8.3	7.5	3.8	7.3	10+	a	7.7	7.0
03/27/14	17.9	4.4	7.9	10+	a	a	7.4	3.9	7.5	10+	a	a	7.1
04/30/14	18.2	4.3	7.9	15.8	8.4	9.0	9.1	3.9	7.4	15.7	7.2	7.6	8.3
05/27/14	18.5	4.6	8.1	16.1	a	a	9.6	4.0	7.4	15.9	a	a	9.1
06/26/14	17.0	4.5	8.0	14.3	a	a	8.9	3.9	7.4	14.2	a	a	8.5
08/01/14	16.1	4.3	7.9	10+	8.0	8.2	7.1	3.9	7.3	10+	7.0	7.3	6.4
08/28/14	16.7	4.4	8.6	10+	a	a	6.5	3.9	7.4	10+	a	a	5.6
09/29/14	16.0	4.4	8.3	10+	a	a	6.4	3.8	7.3	10+	a	a	5.5
10/29/14	16.2	4.4	8.0	10+	8.2	8.5	7.3	3.7	7.2	10+	6.9	7.3	6.2
11/26/14	14.4	4.4	7.8	10+	a	a	6.1	3.6	7.1	10+	a	a	5.4
12/31/14	14.3	4.3	7.4	10+	a	a	5.8	3.3	6.8	10+	a	a	5.1
01/23/15	13.5	4.2	7.3	10+	7.6	7.9	6.7	3.6	6.9	10+	6.7	7.0	6.0
02/27/15	16.5	4.3	7.6	10+	a	a	7.3	3.5	6.8	10+	a	a	6.8
04/01/15	15.5	4.3	7.6	10+	a	a	7.3	3.7	7.1	10+	a	a	6.9
04/30/15	15.2	4.2	7.5	10+	8.3	8.3	7.0	3.6	7.0	10+	6.7	7.1	6.1
05/30/15	15.5	4.3	7.7	10+	a	a	7.3	3.6	7.0	10+	a	a	6.9
06/29/15	14.3	3.9	7.5	10+	a	a	7.1	3.4	7.0	10+	a	a	6.8
07/28/15	14.2	4.2	7.5	10+	7.5	8.0	6.8	3.4	7.0	10+	6.5	6.9	5.9
08/27/15	18.0	4.3	7.5	10+	a	a	7.3	3.4	7.0	10+	a	a	6.8
09/29/15	17.0	4.0	7.1	10+	a	a	7.0	3.3	6.8	10+	a	a	6.7
10/29/15	17.0	4.0	7.1	10+	7.8	8.5	6.8	3.3	6.7	10+	6.4	6.9	5.8

TABLE 4.2 (Cont.)

	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
12/01/15	15.0	3.8	7.3	10+	a	a	7.0	3.4	6.9	3.2	a	a	6.8
01/02/16	16.5	3.6	6.5	10+	a	a	6.7	3.5	4.3	10+	a	a	5.9
01/29/16	15.5	3.6	7.4	10+	7.9	8.6	7.5	3.4	6.8	10+	6.6	7.0	6.8
04/29/16	c	c	c	c	c	c	c	c	c	c	c	c	c
07/28/16	c	c	c	c	c	c	c	c	c	c	c	c	c
09/29/16	17	5.2	10+	10+	off	off	8.4	5.1	10+	10+	off	off	8.4
10/28/16	16.2	4.8	10+	10+	10+	10+	9.0	4.7	9.7	10+	9.4	9.9	8.7
11/29/16	19.8	4.8	10	10+	off	off	8.3	4.4	9.6	10+	off	off	8.0
12/29/16	20	4.7	10	10+	off	off	8.2	4.4	9.4	10+	off	off	7.9
01/30/17	18	4.9	10+	10+	e	10+	8.7	4.5	9.6	10+	e	10+	8.5
02/23/17	18.7	3.7	7.4	10+	off	off	7.0	3.4	7.0	10+	Off	off	6.8
04/03/17	17	3.7	7.4	10+	off	off	7.1	3.5	7.0	10+	Off	off	6.9
04/27/17	19.3	3.8	7.4	10+	e	8.8	7.5	3.3	7.0	10+	e	6.9	6.8
05/30/17	17.8	3.8	7.5	10+	off	off	7.1	3.4	7.2	10+	off	off	6.9
06/28/17	17.5	3.8	7.5	10+	off	off	7.1	3.4	7.3	10+	off	off	6.9

^a Line deactivated.

^b Blower faulty; system deactivated.

^c System deactivated.

^d Standing water prevented reading of wellhead pressure.

^e Flow meter broken.

TABLE 4.3 Analytical results from GreenField for SVE wells.^a

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-1	05/29/09	5,900	710	ND ^b (31)	µg/m ³	GeoCore	Columbia
SVE-1	06/23/09	150	11	ND (2.6)	µg/m ³	GeoCore	Columbia
SVE-1	07/30/09	21	5.1	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-1	08/28/09	20	4.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	11/27/09	16	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	02/25/10	62	2.0	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-1	05/27/10	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	08/27/10	7.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	11/19/10	138	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	03/01/11	42	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	05/25/11	95	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/27/11	5.6	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	01/26/12	9.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/26/12	15	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	07/31/12	c	c	c	c	GeoCore	c
SVE-1	10/30/12	15	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	02/01/13	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/26/13	11	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	08/01/13	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/29/13	1.1	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-1	01/31/14	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/30/14	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	08/01/14	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/29/14	10	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	01/23/15	11	ND (3.9)	8.5	µg/m ³	GeoCore	Accutest
SVE-1	04/30/15	7.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	07/28/15	17	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/29/15	8.8	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	01/29/16	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/29/16	f	f	f	f	f	f
SVE-1	07/28/16	f	f	f	f	f	f
SVE-1	10/28/16	1.1	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-1	01/30/17	6.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/27/17	8.2	ND (2.0)	ND (1.6)	µg/m ³	GeoCore	Accutest
SVE-2	05/29/09	8,800	480	ND (48)	µg/m ³	GeoCore	Columbia
SVE-2	06/23/09	49	17	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-2	07/30/09	26	5.2	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-2	08/28/09	33	5.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	11/27/09	23	2.1 J ^d	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	02/25/10	12	1.6	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-2	05/27/10	6.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	08/27/10	3.8	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	11/19/10	12,000	56	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	03/01/11	5.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	05/25/11	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/27/11	3.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	01/26/12	6.9	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/26/12	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	07/31/12	7.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/30/12	3.7	2.3	ND (3.2)	µg/m ³	GeoCore	Accutest

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-2	02/01/13	3.7	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/26/13	5.9	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	08/01/13	4.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/29/13	0.8	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-2	01/31/14	3.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/30/14	6.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	08/01/14	5.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/29/14	ND(5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	01/23/15	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/30/15	2.9	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	07/28/15	4.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/29/15	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	01/29/16	240	2.1	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/29/16	f	f	f	f	f	f
SVE-2	07/28/16	f	f	f	f	f	f
SVE-2	10/28/16	2.6	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-2	01/30/17	3.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/27/17	3.6	ND (2.0)	ND (1.6)	µg/m ³	GeoCore	Accutest
SVE-3	05/29/09	60,000	2,600	ND (310)	µg/m ³	GeoCore	Columbia
SVE-3	06/23/09	2,000	190	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-3	07/30/09	950	54	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-3	08/28/09	502	37	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	11/27/09	528	21	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	02/25/10	238	28	ND (1.6)	µg/m ³	GeoCore	Accutest
SVE-3	05/27/10	345	15	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	08/27/10	113	9.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	11/19/10	7,110	47	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	03/01/11	96	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	05/25/11	5.0	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/27/11	165	3.0	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/26/12	46	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/26/12	45	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	07/31/12	82	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/30/12	47	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	02/01/13	19	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/26/13	39	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	08/01/13	86	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/29/13	91	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/31/14	47	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/30/14	60	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	08/01/14	150	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/29/14	83	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/23/15	89	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/30/15	57	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	07/28/15	184	2.1	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/29/15	166	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/29/16	240	2.1	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/29/16	f	f	f	f	f	f
SVE-3	07/28/16	f	f	f	f	f	f

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-3	10/28/16	145	1.4	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-3	01/30/17	144	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/27/17	120	1.6	ND (1.6)	µg/m ³	GeoCore	Accutest
SVE-4	05/29/09	29,000	1,800	ND (160)	µg/m ³	GeoCore	Columbia
SVE-4	06/23/09	400	51	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-4	07/30/09	130	12	ND (2.3)	µg/m ³	GeoCore	Columbia
SVE-4	08/28/09	84	8.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	11/27/09	110	7.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	02/25/10	59	6.8	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-4	08/27/10	17	3.0	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	11/19/10	34,300	90.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	03/01/11	25	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	05/25/11	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/27/11	17	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/26/12	8.8	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/26/12	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	07/31/12	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/30/12	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	02/01/13	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/26/13	4.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	08/01/13	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/29/13	14	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/31/14	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/30/14	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	08/01/14	28	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/29/14	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/23/15	12	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/30/15	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	07/28/15	30	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/29/15	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/29/16	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/29/16	f	f	f	f	f	f
SVE-4	07/28/16	f	f	f	f	f	f
SVE-4	10/28/16	19	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-4	01/30/17	16	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/27/17	14	ND (2.0)	ND (1.6)	µg/m ³	GeoCore	Accutest
SVE-5	05/29/09	13,000	310	ND (64)	µg/m ³	GeoCore	Columbia
SVE-5	06/23/09	1,900	160	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-5	07/30/09	760	39	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-5	11/27/09	188	6.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	02/25/10	174	18	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-5	05/27/10	130	5.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	08/27/10	55	2.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	11/19/10	4,940	31	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	03/01/11	129	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	05/25/11	125	3.2	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/27/11	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/26/12	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-5	04/26/12	36	2.4	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	07/31/12	40	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/30/12	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	02/01/13	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/26/13	4.6	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	08/01/13	49	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/29/13 ^e	45	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/31/14	162	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/30/14	65	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	08/01/14	96	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/29/14	45	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/23/15	47	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/30/15	77	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	07/28/15	117	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/29/15	91	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/29/16	128	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/29/16	f	f	f	f	f	f
SVE-5	07/28/16	f	f	f	f	f	f
SVE-5	10/28/16	250	1.0	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-5	01/30/17	370	2.0	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/27/17	294	1.7	ND (1.6)	µg/m ³	GeoCore	Accutest
SVE-Effluent	05/29/09	46,000	2,000	ND (64)	µg/m ³	GeoCore	Columbia
SVE-Effluent	06/23/09	1,100	99	ND (2.2)	µg/m ³	GeoCore	Columbia
SVE-Effluent	07/30/09	460	26	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-Effluent	08/28/09	40	ND (14)	ND (11)	µg/m ³	GeoCore	Accutest
SVE-Effluent	11/27/09	182	8.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	02/25/10	115	12	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-Effluent	05/27/10	143	6.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	08/27/10	34	2.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	11/19/10	13,000	97	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	05/25/11	49	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/27/11	33	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/26/12	21	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/26/12	25	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	07/31/12	52	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/30/12	27	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	02/01/13	9.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/26/13	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	08/01/13	48	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/29/13	38	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/31/14	9.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/30/14	15	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	08/01/14	64	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/29/14	41	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/23/15	11	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/30/15	50	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	07/28/15	77	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/29/15	38	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/29/16	82	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-Effluent	04/29/16	f	f	f	f	f	f
SVE-Effluent	07/28/16	f	f	f	f	f	f
SVE-Effluent	10/28/16	25	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/30/17	64	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/27/17	34	ND (2.0)	ND (1.6)	µg/m ³	GeoCore	Accutest

^a Data are from GreenField start-up report and from monthly and quarterly OMM reports.

^b ND, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

^c Sampling error. The canister received at the laboratory was out of the vacuum range and was not suitable for analysis.

^d J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.

^e GreenField quarterly report gives date as 10/25/13.

^f System deactivated.

TABLE 4.4 Analytical results for soil gas samples.

Location	Sample	Sample Date	Concentration (µg/m ³)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG1S	AGSG1S-G-17934	05/26/09	1,100	380	170 U ^a	81 U
SG1S	AGSG1S-G-17960	07/30/09	24,000	1,700	210 U	97 U
SG1S	AGSG1S-G-17977	09/18/09	36,000	3,700	1800 U	810 U
SG1S	AGSG1S-G-17991	11/25/09	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30130	02/12/10	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30131 ^b	02/12/10	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30138	03/23/10	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30156	05/27/10	37 U	29 U	52 U	24 U
SG1S	AGSG1S-G-30237	09/16/10	32 U	25 U	44 U	20 U
SG1S	AGSG1S-G-30256	12/16/10	80	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30275	03/16/11	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30307	06/07/11	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30330	10/05/11	25 U	20 U	35 U	16 U
SG1S	AGSG1S-G-30350	12/14/11	21	9.8 U	17 U	8.1 U
SG1S	AGSG1SDUP-G-30356 ^b	12/14/11	14	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30371	03/14/12	28	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30392	06/27/12	35 U	27 U	49 U	23 U
SG1S	AGSG1SDUP-G-30398 ^b	06/27/12	63 U	49 U	87 U	41 U
SG1S	AGSG1S-G-30453	10/18/12	36	14 U	25 U	12 U
SG1S	AGSG1S-G-30473	01/16/13	60	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30493	04/02/13	41	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30525	07/11/13	18	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-35716	09/17/13	16	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-35736	11/20/13	35	9.8 U	17 U	8.1 U
SG1S	AGSG1SDUP-35742 ^b	11/20/13	44	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-35756	02/26/14	14	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-36604	06/25/14	13 U	9.8 U ^d	17 U ^d	8.1 U
SG1S	AGSG1S-G-36816	09/30/14	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-36838	12/02/14	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-37180	03/27/15	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-38195	10/15/15	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-38746 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-39340	10/18/16	29	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-39730	03/08/17	1.5 J	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-17928	05/20/09	19,000	1,700	17 U	8.1 U
SG1D	AGSG1D-G-17935	05/26/09	16,000	930	180 U	85 U
SG1D	AGSG1D-G-17961	07/30/09	540	32	17 U	8.1 U
SG1D	AGSG1D-G-17978	09/18/09	13,000	3,600	110 U	48 U
SG1D	AGSG1D-G-17979 ^b	09/18/09	13,000	4,100	100 U	49 U
SG1D	AGSG1D-G-17992	11/25/09	1,400	470	17 U	8.1 U
SG1D	AGSG1D-G-30132	02/12/10	2,000	490	17 U	8.1 U
SG1D	AGSG1D-G-30139	03/23/10	570	150	17 U	8.1 U
SG1D	AGSG1D-G-30157	05/27/10	18	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-30162 ^b	05/27/10	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30238	09/16/10	19	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30257	12/16/10	63	9.7	17 U	8.1 U
SG1D	AGSG1D-G-30276	03/16/11	52	20	17 U	8.1 U
SG1D	AGSG1D-G-30308	06/07/11	91	19	17 U	8.1 U
SG1D	AGSG1DDUP-G-30313 ^b	06/07/11	96	19	17 U	8.1 U
SG1D	AGSG1D-G-30331	10/05/11	34	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30351	12/14/11	13 U	9.8 U	17 U	8.1 U

SG1D AGSG1D-G-30372 03/14/12 37 11 17 U 8.1 U
TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration (µg/m ³)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG1D	AGSG1D-G-30393	06/27/12	42	12	17 U	8.1 U
SG1D	AGSG1D-G-30454	10/18/12	13	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30474	01/16/13	100	18	17 U	8.1 U
SG1D	AGSG1D-G-30494	04/02/13	26	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30526	07/11/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-30531 ^b	07/11/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-35717	09/17/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-35737	11/20/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-35757	02/26/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-35762 ^b	02/26/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-36605	06/25/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-36817	09/30/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-36839	12/02/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-36844 ^b	12/02/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-37181	03/27/15	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-38196	10/15/15	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-38747 ^c	03/17/16	13	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-39341	10/18/16	27	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-39731	03/08/17	5.0 J	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-17929	05/20/09	450	330	17 U	8.1 U
SG2S	AGSG2S-G-17936	05/26/09	330	98 U	170 U	81 U
SG2S	AGSG2S-G-17962	07/30/09	250	28	45 U	21 U
SG2S	AGSG2S-G-17980	09/18/09	2,600	730	180 U	81 U
SG2S	AGSG2S-G-17993	11/25/09	1,400	190	35 U	16 U
SG2S	AGSG2S-G-30133	02/12/10	13 U	19	17 U	8.1 U
SG2S	AGSG2S-G-30140	03/23/10	88	27	17 U	8.1 U
SG2S	AGSG2S-G-30158	05/27/10	110	30	52 U	24 U
SG2S	AGSG2S-G-30239	09/16/10	360	97 U	170 U	80 U
SG2S	AGSG2SDUP-G-30243 ^b	09/16/10	230	74 U	130 U	62 U
SG2S	AGSG2S-G-30258	12/16/10	230	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30277	03/16/11	99	79 U	140 U	65 U
SG2S	AGSG2S-G-30309	06/07/11	40	20 U	35 U	16 U
SG2S	AGSG2S-G-30332	10/05/11	25 U	20 U	35 U	16 U
SG2S	AGSG2S-G-30352	12/14/11	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30373	03/14/12	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30394	06/27/12	37 U	29 U	51 U	24 U
SG2S	AGSG2SDUP-G-30479 ^b	01/16/13	20	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30455	10/18/12	13	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30475	01/16/13	14	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30495	04/02/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30527	07/11/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-35718	09/17/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-35738	11/20/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-35758	02/26/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-36606	06/25/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-36818	09/30/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-36840	12/02/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-37182	03/27/15	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-38197	10/15/15	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-38748 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U

TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration ($\mu\text{g}/\text{m}^3$)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG2S	AGSG2S-G-39342	10/18/16	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-39732	03/08/17	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-17930	05/20/09	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-17937	05/26/09	57	20 U	35 U	16 U
SG2D	AGSG2D-G-17963	07/30/09	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-17966 ^b	07/30/09	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-17981	09/18/09	100	19	17 U	8.1 U
SG2D	AGSG2D-G-17994	11/25/09	14	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30134	02/12/10	20	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30141	03/23/10	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-30144 ^b	03/23/10	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30240	09/16/10	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30259	12/16/10	51	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30278	03/16/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-30281 ^b	03/16/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30310	06/07/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30333	10/05/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30353	12/14/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30374	03/14/12	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30395	06/27/12	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30456	10/18/12	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30476	01/16/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30496	04/02/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30528	07/11/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-35719	09/17/13	e	e	e	e
SG2D	AGSG2D-G-35739	11/20/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-35759	02/26/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-36607	06/25/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-36819	09/30/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-36822 ^b	09/30/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-36841	12/02/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-37183	03/27/15	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-38198	10/15/15	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-38201	10/15/15	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-38749 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-39343	10/18/16	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-39733	03/08/17	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-17931	05/21/09	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3SDUP-G-17934 ^b	05/21/09	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-17938	05/26/09	140	100 U	180 U	85 U
SG3S	AGSG3S-G-17964	07/30/09	3,100	310	45 U	20 U
SG3S	AGSG3S-G-17982	09/18/09	6,900	1,700	180 U	81 U
SG3S	AGSG3S-G-17995	11/25/09	1,600	170	35 U	16 U
SG3S	AGSG3S-G-30135	02/12/10	2,200	160	17 U	8.1 U
SG3S	AGSG3S-G-30142	03/23/10	1,200	120	17 U	8.1 U
SG3S	AGSG3S-G-30160	05/27/10	570	73	87 U	40 U
SG3S	AGSG3S-G-30241	09/16/10	200	74 U	130 U	61 U
SG3S	AGSG3S-G-30260	12/16/10	210	13	17 U	8.1 U
SG3S	AGSG3S-G-30279	03/16/11	100	19 U	34 U	16 U
SG3S	AGSG3S-G-30311	06/07/11	31	20 U	35 U	16 U
SG3S	AGSG3S-G-30334	10/05/11	25 U	20 U	35 U	16 U

TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration (µg/m ³)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG3S	AGSG3S-G-30354	12/14/11	16	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30375	03/14/12	16	9.8 U	17 U	8.1 U
SG3S	AGSG3SDUP-G-30377 ^b	03/14/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30396	06/27/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSB3SDUP-G-30459 ^b	10/18/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30457	10/18/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30477	01/16/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30497	04/02/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30529	07/11/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-35720	09/17/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-35740	11/20/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-35760	02/26/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-36608	06/25/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-36820	09/30/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-36842	12/02/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-37184	03/27/15	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-38199	10/15/15	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-38750 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-39344	10/18/16	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-39344	03/08/17	1.3 J	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-17932	05/20/09	6,900	1,700	20	8.1 U
SG3D	AGSG3D-G-17939	05/26/09	2,700	830	350 U	160 U
SG3D	AGSG3DDUP-G-17940 ^b	05/26/09	2,700	630	350 U	160 U
SG3D	AGSG3D-G-17965	07/30/09	6,900	1,100	69 U	32 U
SG3D	AGSG3D-G-17983	09/18/09	5,900	2,600	90 U	40 U
SG3D	AGSG3D-G-17996	11/25/09	40	28	17 U	8.1 U
SG3D	AGSG3DDUP-G-17997 ^b	11/25/09	60	42	17 U	8.1 U
SG3D	AGSG3D-G-30136	02/12/10	15	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30143	03/23/10	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30161	05/27/10	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30242	09/16/10	13	12	17 U	8.1 U
SG3D	AGSG3D-G-30261	12/16/10	410	86	63 U	30 U
SG3D	AGSG3DDUP-G-30262 ^b	12/16/10	660	190	63 U	30 U
SG3D	AGSG3D-G-30280	03/16/11	330	86	32 U	15 U
SG3D	AGSG3D-G-30312	06/07/11	47	29 U	51 U	24 U
SG3D	AGSG3D-G-30335	10/05/11	49	15	17 U	8.1 U
SG3D	AGSG3DDUP-G-30336 ^b	10/05/11	130	37	17 U	8.1 U
SG3D	AGSG3D-G-30355	12/14/11	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30376	03/14/12	59	17	17 U	8.1 U
SG3D	AGSG3D-G-30397	06/27/12	83	22	17 U	8.1 U
SG3D	AGSG3D-G-30458	10/18/12	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30478	01/16/13	66	19	17 U	8.1 U
SG3D	AGSG3D-G-30498	04/02/13	54	18	17 U	8.1 U
SG3D	AGSG3DDUP-G-30499 ^b	04/02/13	51	17	17 U	8.1 U
SG3D	AGSG3D-G-30530	07/11/13	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-35721	09/17/13	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3DDUP-G-35722 ^b	09/17/13	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-35741	11/20/13	14	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-35761	02/26/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-W-36609	06/25/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3DDUP-W-36610 ^b	06/25/14	13 U	9.8 U	17 U	8.1 U

TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration (µg/m ³)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG3D	AGSG3D-G-36821	09/30/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-36843	12/02/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-37185	03/27/15	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3DDUP-G-37186 ^b	03/27/15	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-38200	10/15/15	25 U	20 U	35 U	16 U
SG3D	AGSG3D-G-38751 ^c	03/17/16	32 U	25 U	44 U	21 U
SG3D	AGSG3D-G-39345	10/18/16	13 U	9.9 U	18 U	8.2 U
SG3D	AGSG3D-G-39735	03/08/17	12 J	9.9 U	18 U	8.2 U
SG3D	AGSG3DDUP-G-39736	03/08/17	11 J	9.9 U	18 U	8.2 U
QC	AGSGBKGD-G-17933	05/21/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-17967	07/30/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-17984	09/18/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-17998	11/25/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30137	02/12/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30145	03/23/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30163	05/27/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30244	09/16/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30263	12/16/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30282	03/16/11	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30314	06/07/11	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30337	10/05/11	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30357	12/14/11	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30378	03/14/12	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30399	06/27/12	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30460	10/18/12	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30480	01/16/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30500	04/02/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30532	07/11/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-35723	09/17/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-35743	11/20/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-35763	02/26/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-36611	06/25/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-36823	09/30/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-36845	12/02/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-37187	03/27/15	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-38202	10/15/15	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-38760 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-39353	10/18/16	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-39737	03/08/17	13 U	9.8 U	17 U	8.1 U

^a U, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

^b Quality control replicate sample.

^c Sampling occurred during temporary shutdown of the SVE/AS system for supplemental testing purposes, initiated on February 18, 2016.

^d Internal standard response outside QC limits.

^e Sample not analyzed. Canister received with valve open and at zero pressure.

TABLE 4.5 Analytical results for groundwater samples.

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW1	AGGW1-W-17896	05/20/09	114	8.1	ND ^a	ND	Argonne	AGEM
GW1	GW-1	05/29/09	32	6.7	–	ND	GeoCore	Accutest
GW1	GW-1	08/28/09	46	7.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-17973	09/18/09	46	5.8	ND	ND	Argonne	AGEM
GW1	GW-1	11/27/09	48	7.3	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30123	12/13/09	47	5.9	ND	ND	Argonne	AGEM
GW1	GW-1	02/25/10	36	4.2	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30149	03/23/10	11	3.2	ND	ND	Argonne	AGEM
GW1	GW-1	05/27/10	25	5.1	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30167	06/16/10	26	4.1	ND	ND	Argonne	AGEM
GW1	GW-1	08/27/10	30	5.4	ND	ND	GeoCore	Accutest
GW1	AGGW1-W-30229	09/16/10	38	5.8	ND	ND	Argonne	AGEM
GW1	GW-1	11/19/10	31	5.8	ND	ND	GeoCore	Accutest
GW1	AGGW1-W-30248	12/16/10	54	6.2	ND	ND	Argonne	AGEM
GW1	GW-1	03/01/11	40	5.5	ND	ND	GeoCore	Accutest
GW1	AGGW1-W-30267	03/16/11	42	4.8	ND	ND	Argonne	AGEM
GW1	No sample	05/25/11	b	b	b	b	GeoCore	b
GW1	AGGW1-W-30298	06/06/11	37	4.9	ND	ND	Argonne	AGEM
GW1	AGGW1-W-30321	10/05/11	38	5.2	ND	ND	Argonne	AGEM
GW1	GW-1	10/27/11	34	5.4	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30341	12/14/11	38	4.9	ND	ND	Argonne	AGEM
GW1	GW-1	01/26/12	39	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30361	03/14/12	42	4.6	ND	ND	Argonne	AGEM
GW1	GW-1	04/26/12	39	5.0	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30382	06/27/12	64	5.7	ND	ND	Argonne	AGEM
GW1	GW-1	07/31/12	45	4.8	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30444	10/18/12	68	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	10/30/12	46	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30464	01/16/13	67	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	02/01/13	31	3.3	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30484	04/02/13	72	4.9	ND	ND	Argonne	AGEM
GW1	GW-1	04/26/13	56	5.1	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30516	07/11/13	74	4.9	ND	ND	Argonne	AGEM
GW1	GW-1	08/01/13	50	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-35707	09/17/13	88	5.2	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW1	GW-1	10/29/13	85	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-35727	11/25/13	78	4.4	ND	ND	Argonne	AGEM
GW1	GW-1	01/31/14	94	5.6	–	ND	GeoCore	Accutest
GW1	AGGW1-W-35747	02/25/14	107	5.8	ND	ND	Argonne	AGEM
GW1	GW-1	04/30/14	70	5.0	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36595	06/27/14	69	3.1	ND	ND	Argonne	AGEM
GW1	GW-1	08/01/14	77	5.8	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36807	09/30/14	66	4.7	ND	ND	Argonne	AGEM
GW1	GW-1	10/29/14	66	4.5	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36828	12/02/14	76	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	01/23/15	83	6.3	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36850	03/27/15	56	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	04/30/15	48	4.8	–	ND	GeoCore	Accutest
GW1	AGGW1-W-37191	06/30/15	52	5.2	ND	ND	Argonne	AGEM
GW1	GW-1	07/28/15	50	5.8	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-37216	10/16/15	69	7.3	ND	ND	Argonne	AGEM
GW1	GW-1	10/29/15	56	7.0	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-38210	01/06/16	43	4.3	ND	ND	Argonne	AGEM
GW1	GW-1	01/29/16	48	4.1	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-38243	03/16/16	28	3.3	ND	ND	Argonne	AGEM
GW1	GW-1 ^c	04/29/16	53	5.5	–	ND (1)	GeoCore	Accutest
GW1	AGG1W-W-38763 ^c	07/28/16	43	4.8	ND	ND	Argonne	AGEM
GW1	GW-1	07/28/16	49	6.0	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39323	10/18/16	57	5.7	ND	ND	Argonne	AGEM
GW1	GW-1	10/28/16	67	6.6	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39357	12/06/16	50	4.8	ND	ND	Argonne	AGEM
GW1	GW-1	01/30/17	57	5.4	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39721	03/06/17	49	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	04/27/17	49	5.6	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39763	07/06/17	48	4.9	ND	ND	Argonne	AGEM
GW2	AGGW2-W-17806	05/20/09	6,090	46	ND	ND	Argonne	AGEM
GW2	AGGW2-W-17971	09/18/09	2,491	19	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30121	12/13/09	2,817	26	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30150	03/23/10	2,943	32	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30168	06/16/10	500	13	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW2	AGGW2-W-30230	09/16/10	1,978	24	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30249	12/16/10	2,959	28	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30268	03/16/11	3,164	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30299	06/06/11	2,900	20	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30322	10/05/11	4,207	22	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30342	12/14/11	2,745	44	0.5 J ^d	ND	Argonne	AGEM
GW2	AGGW2-W-30362	03/14/12	3,925	25	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30383	06/27/12	5,802	24	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30445	10/18/12	3,556	25	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30465	01/16/13	3,942	27	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30485	04/02/13	4,197	22	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30517	07/11/13	4,024	22	ND	ND	Argonne	AGEM
GW2	AGGW2-W-35708	09/17/13	4,992	25	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36596	06/27/14	2,291	15	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36808	09/30/14	3,084	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36829	12/02/14	4,283	23	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36851	03/27/15	3,480	24	ND	ND	Argonne	AGEM
GW2	AGGW2-W-37192	06/30/15	4,256	23	ND	ND	Argonne	AGEM
GW2	AGGW2-W-37217	10/16/15	4,893	31	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38211	01/06/16	3,636	23	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38730 ^c	03/16/16	2,308	15	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38764 ^c	07/28/16	3,106	19	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39324	10/18/16	3,930	19	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39358	12/07/16	4,786	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39358	03/06/17	3,848	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39358	07/06/17	3,324	18	ND	ND	Argonne	AGEM
GW3	AGGW3-W-17894	05/20/09	9,198	28	ND	ND	Argonne	AGEM
GW3	GW-3	05/29/09	1,210	23	–	ND	GeoCore	Accutest
GW3	GW-3	08/28/09	968	29	–	ND	GeoCore	Accutest
GW3	AGGW3-W-17968	09/18/09	1,302	15	ND	ND	Argonne	AGEM
GW3	GW-3	11/27/09	797	17	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30120	12/13/09	1,233	17	ND	ND	Argonne	AGEM
GW3	GW-3	02/25/10	733	15	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30151	03/23/10	229	10	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW3	GW-3	05/27/10	748	16	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30169	06/16/10	119	7.1	ND	ND	Argonne	AGEM
GW3	GW-3	08/27/10	913	17	ND	ND	GeoCore	Accutest
GW3	AGGW3-W-30231	09/16/10	2,219	19	ND	ND	Argonne	AGEM
GW3	GW-3	11/19/10	629	25	ND	ND	GeoCore	Accutest
GW3	AGGW3-W-30250	12/16/10	2,167	18	ND	ND	Argonne	AGEM
GW3	GW-3	03/01/11	1,180	23	ND	ND	GeoCore	Accutest
GW3	AGGW3-W-30269	03/16/11	2,422	14	ND	ND	Argonne	AGEM
GW3	No sample	05/25/11	b	b	b	b	GeoCore	b
GW3	AGGW3-W-30300	06/06/11	1,777	15	ND	ND	Argonne	AGEM
GW3	AGGW3-W-30323	10/05/11	2,429	15	ND	ND	Argonne	AGEM
GW3	GW-3	10/27/11	867	16	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30343	12/14/11	922	16	ND	ND	Argonne	AGEM
GW3	GW-3	01/26/12	857	18	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30363	03/14/12	2,015	d	ND	ND	Argonne	AGEM
GW3	GW-3	04/26/12	899	14	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30384	06/27/12	2,406	d	ND	ND	Argonne	AGEM
GW3	GW-3	07/31/12	937	12	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30446	10/18/12	2,290	15	ND	ND	Argonne	AGEM
GW3	GW-3	10/30/12	947	14	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30466	01/16/13	1,927	18	ND	ND	Argonne	AGEM
GW3	GW-3	02/01/13	84	3.8	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30486	04/02/13	2,097	56	ND	ND	Argonne	AGEM
GW3	GW-3	04/26/13	1,870	15	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30518	07/11/13	2,206	16	ND	ND	Argonne	AGEM
GW3	GW-3	08/01/13	1,110	23	–	ND	GeoCore	Accutest
GW3	AGGW3-W-35709	09/17/13	2,460	16	ND	ND	Argonne	AGEM
GW3	GW-3	10/29/13	1,850	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-35729	11/25/13	1,748	11	ND	ND	Argonne	AGEM
GW3	GW-3	01/31/14	978	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-35749	02/25/14	2,244	13	ND	ND	Argonne	AGEM
GW3	GW-3	04/30/14	1,810	15	–	ND	GeoCore	Accutest
GW3	AGGW3-W-36597	06/27/14	1,521	9.3	ND	ND	Argonne	AGEM
GW3	GW-3	08/01/14	1,550	23	–	ND	GeoCore	Accutest
GW3	AGGW3-W-36809	09/30/14	1,523	12	ND	ND	Argonne	AGEM
GW3	GW-3	10/29/14	1,420	15	–	ND	GeoCore	Accutest

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW3	AGGW3-W-36830	12/02/14	2,069	12	ND	ND	Argonne	AGEM
GW3	GW-3	01/23/15	2,270	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-36852	03/27/15	1,960	13	ND	ND	Argonne	AGEM
GW3	GW-3	04/30/15	1,530	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-37193	06/30/15	1,496	13	ND	ND	Argonne	AGEM
GW3	GW-3	07/28/15	1,360	17	–	ND (1)	GeoCore	Accutest
GW3	AGGW3-W-37218	10/16/15	1,880	12	ND	ND	Argonne	AGEM
GW3	GW-3	10/29/15	1,420	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-38212	01/06/16	1,733	13	ND	ND	Argonne	AGEM
GW3	GW-3	01/29/16	1,370	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-38731 ^c	03/16/16	1,381	10	ND	ND	Argonne	AGEM
GW3	GW-3 ^c	04/29/16	1,800	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-38765 ^c	07/28/16	1,699	15	ND	ND	Argonne	AGEM
GW3	GW-3	07/28/16	1,020	ND (20)	–	ND (1)	GeoCore	Accutest
GW3	AGGW3-W-39325	10/18/16	1,753	14	ND	ND	Argonne	AGEM
GW3	GW-3	10/28/16	1,730	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-39359	12/07/16	1,815	12	ND	ND	Argonne	AGEM
GW3	GW-3	01/30/17	1,240	ND (25)	–	ND (25)	GeoCore	Accutest
GW3	AGGW3-W-39723	03/06/17	1,701	11	ND	ND	Argonne	AGEM
GW3	GW-3	04/27/17	1,100	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-39765	07/06/17	1,209	11	ND	ND	Argonne	AGEM
GW4	AGGW4-W-17895	05/20/09	127	2.3	ND	ND	Argonne	AGEM
GW4	GW-4	05/29/09	79	2.6	–	ND	GeoCore	Accutest
GW4	GW-4	08/28/09	154	4.1	–	ND	GeoCore	Accutest
GW4	AGGW4-W-17972	09/18/09	150	2.2	ND	ND	Argonne	AGEM
GW4	GW-4	11/27/09	150	2.9	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30124	12/13/09	227	3.6	ND	ND	Argonne	AGEM
GW4	GW-4	02/25/10	228	3.1	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30152	03/23/10	144	2.4	ND	ND	Argonne	AGEM
GW4	GW-4	05/27/10	191	2.5	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30170	06/16/10	97	ND	ND	ND	Argonne	AGEM
GW4	GW-4	08/27/10	70	1.8	ND	ND	GeoCore	Accutest
GW4	AGGW4-W-30232	09/16/10	107	1.8	ND	ND	Argonne	AGEM
GW4	GW-4	11/19/10	78	1.7	ND	ND	GeoCore	Accutest

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW4	AGGW4-W-30251	12/16/10	171	2.2	ND	ND	Argonne	AGEM
GW4	GW-4	03/01/11	184	2.6	ND	ND	GeoCore	Accutest
GW4	AGGW4-W-30270	03/16/11	86	1.6	ND	ND	Argonne	AGEM
GW4	No sample	05/25/11	b	b	b	b	GeoCore	b
GW4	AGGW4-W-30301	06/06/11	112	1.4	ND	ND	Argonne	AGEM
GW4	AGGW4-W-30324	10/05/11	230	3.0	ND	ND	Argonne	AGEM
GW4	GW-4	10/27/11	172	2.5	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30344	12/14/11	207	2.3	ND	ND	Argonne	AGEM
GW4	GW-4	01/26/12	259	3.3	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30364	03/14/12	95	1.6	ND	ND	Argonne	AGEM
GW4	GW-4	04/26/12	199	3.2	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30385	06/27/12	171	E	ND	ND	Argonne	AGEM
GW4	GW-4	07/31/12	183	4.2	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30447	10/18/12	243	3.6	ND	ND	Argonne	AGEM
GW4	GW-4	10/30/12	262	4.1	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30467	01/16/13	229	2.8	ND	ND	Argonne	AGEM
GW4	GW-4	02/01/13	46	5.5	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30487	04/02/13	163	2.5	ND	ND	Argonne	AGEM
GW4	GW-4	04/26/13	246	3.9	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30519	07/11/13	45	0.5 J	ND	ND	Argonne	AGEM
GW4	GW-4	08/01/13	236	6.7	–	ND	GeoCore	Accutest
GW4	AGGW4-W-35710	09/17/13	335	3.9	ND	ND	Argonne	AGEM
GW4	GW-4	10/29/13	243	3.9	–	ND	GeoCore	Accutest
GW4	AGGW4-W-35730	11/25/13	266	3.0	ND	ND	Argonne	AGEM
GW4	GW-4	01/31/14	337	ND	–	ND	GeoCore	Accutest
GW4	AGGW4-W-35750	02/25/14	427	2.3	ND	ND	Argonne	AGEM
GW4	GW-4	04/30/14	274	ND	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36598	06/27/14	263	2.7	ND	ND	Argonne	AGEM
GW4	GW-4	08/01/14	223	ND	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36810	09/30/14	281	3.3	ND	ND	Argonne	AGEM
GW4	GW-4	10/29/14	259	3.8	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36831	12/02/14	334	3.6	ND	ND	Argonne	AGEM
GW4	GW-4	01/23/15	276	3.4	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36853	03/27/15	256	4.1	ND	ND	Argonne	AGEM
GW4	GW-4	04/30/15	191	3.2	–	ND	GeoCore	Accutest
GW4	AGGW4-W-37194	06/30/15	325	3.7	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW4	GW-4	07/28/15	100	2.2	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-37219	10/16/15	427	4.8	ND	ND	Argonne	AGEM
GW4	GW-4	10/29/15	193	4.4	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-38213	01/06/16	200	2.7	ND	ND	Argonne	AGEM
GW4	GW-4	01/29/16	160	3.0	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-38732 ^c	03/16/16	236	2.8	ND	ND	Argonne	AGEM
GW4	GW-4 ^c	04/29/16	264	ND (5)	–	ND (5)	GeoCore	Accutest
GW4	AGGW4-W-38766 ^c	07/28/16	350	4.6	ND	ND	Argonne	AGEM
GW4	GW-4	07/28/16	288	4.8	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-39326	10/18/16	348	4.0	ND	ND	Argonne	AGEM
GW4	GW-4	10/28/16	268	ND (5)	–	ND (5)	GeoCore	Accutest
GW4	AGGW4-W-39360	12/07/16	314	3.3	ND	ND	Argonne	AGEM
GW4	GW-4	01/30/17	242	3.7	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-39724	03/06/17	288	3.3	ND	ND	Argonne	AGEM
GW4	GW-4	04/27/17	199	2.9	–	ND (2.5)	GeoCore	Accutest
GW4	AGGW4-W-39766	07/06/17	297	4.0	ND	ND	Argonne	AGEM
GW5	AGGW5-W-17925	05/20/09	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-17974	09/18/09	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30127	12/13/09	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30153	03/23/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30171	06/16/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30233	09/16/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30252	12/16/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30271	03/16/11	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30302	06/06/11	0.4 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30325	10/05/11	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30345	12/14/11	0.3 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30365	03/14/12	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30386	06/27/12	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30448	10/18/12	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30468	01/16/13	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30488	04/02/13	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30520	07/11/13	0.3 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-35711	09/17/13	ND	ND	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW5	AGGW5-W-35731	11/25/13	0.3 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-35751	02/25/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-36599	06/28/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-36811	09/30/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-36832	12/02/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGMWJ-W-36848	03/27/15	ND	ND	ND	ND	Argonne	AGEM
GW5	AGMWJ-W-37189	06/30/15	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW4-W-37220	10/16/15	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW4-W-38214	01/06/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW5-W-38733 ^c	03/16/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW5-W-38767 ^c	07/28/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39321	10/18/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39355	12/07/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39321	03/06/17	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39355	07/06/17	ND	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-17908	10/29/08	32	0.3 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-17945	06/16/09	13	0.1 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-17986	11/03/09	52	0.4 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30128	12/13/09	32	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30147	03/23/10	23	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30165	06/16/10	23	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30227	09/16/10	32	0.3 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30246	12/16/10	27	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30265	03/16/11	15	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30287	06/07/11	18	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30319	10/05/11	24	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30339	12/14/11	22	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30359	03/14/12	14	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30408	06/27/12	12	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30442	10/18/12	14	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30462	01/16/13	15	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30482	04/02/13	11	0.2 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30505	07/10/13	12	0.2 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-35705	09/16/13	15	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-35725	11/25/13	13	0.2 J	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
MW-J	AGMWJ-W-35745	02/26/14	20	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36562	06/28/14	12	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36805	09/30/14	13	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36826	12/02/14	18	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36848	03/27/15	ND	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-37189	06/30/15	11	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-37205	10/14/15	19	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-38208	01/06/16	13	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-38241 ^c	03/17/16	10	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-38761 ^c	07/29/16	10	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39321	10/18/16	10	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39355	12/07/16	9.4	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39369	03/07/17	12	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39752	06/25/17	9.9	ND	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-17914	10/28/08	318	5.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-17948	06/16/09	260	11	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-17985	11/03/09	334	5.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30126	12/13/09	480	7.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30148	03/23/10	318	7.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30166	06/16/10	259	6.0	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30228	09/16/10	240	7.0	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30247	12/16/10	297	7.8	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30266	03/16/11	296	6.4	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30290	06/06/11	222	5.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30320	10/05/11	221	6.1	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30340	12/14/11	303	7.1	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30360	03/14/12	313	6.7	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30381	06/27/12	377	7.0	ND	ND	Argonne	AGEM
MW-P	AGMWP-DUP-W-30449	10/18/12	266	6.2	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30443	10/18/12	276	7.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30463	01/16/13	288	6.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30483	04/02/13	212	6.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30508	07/10/13	427	6.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-35706	09/16/13	417	7.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-35726	11/25/13	432	6.8	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
MW-P	AGMWP-W-35746	02/26/14	651	8.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36594	06/28/14	262	4.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36806	09/30/14	410	6.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36827	12/02/14	552	7.4	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36849	03/27/15	295	5.7	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-37190	06/30/15	332	5.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-37208	10/14/15	647	8.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-38209	01/06/16	438	7.1	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-38242 ^c	03/17/16	320	5.2	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-38762 ^c	07/29/16	280	5.2	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39322	10/18/16	204	5.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39356	12/07/16	311	5.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39720	03/07/17	358	7.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39756	06/25/17	337	6.1	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-17900	10/28/08	2.1	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-17942	06/16/09	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30122	12/13/09	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30146	03/23/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30164	06/16/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30226	09/16/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30245	12/16/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30264	03/16/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30284	06/06/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30318	10/05/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30338	12/14/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30358	03/14/12	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30379	06/27/12	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30441	10/18/12	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30461	01/16/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30481	04/02/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30502	07/10/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-35704	09/16/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-35724	11/25/13	0.3 J	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-35744	02/26/14	0.9 J	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-36593	06/28/14	ND	ND	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
KMW-03	AGKMW3-W-36804	09/30/14	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-36825	12/02/14	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-36847	03/27/15	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-37188	06/30/15	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-37202	10/14/15	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-38207	01/06/16	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-38240 ^c	03/17/16	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-38760 ^c	07/29/16	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39320	10/18/16	2.4	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39354	12/07/16	1.7	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39368	03/07/17	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39745	06/25/17	ND	ND	ND	ND	Argonne	AGEM

^a ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

^b Inaccessible because of rainwater.

^c Sampling occurred during temporary shutdown of the SVE/AS system for supplemental testing purposes, initiated on February 18, 2016.

^d J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.

^e Analyzed at dilution. Chloroform not detected in the diluted analysis.

TABLE 4.6 Dissolved oxygen levels in groundwater since 2009.^a

Sampling Date	Dissolved Oxygen (mg/L)							
	GW1	GW2	GW3	GW4	GW5	KMW03	MW-J	MW-P
06/16/09	—	—	—	—	—	5.93	8.25	7.73
09/18/09	10.43	10.85	10.87	10.62	9.08	—	—	—
11/03/09	—	—	—	—	—	—	7.01	8.22
12/13/09	NR ^b	NR	NR	NR	NR	6.82	8.51	9.45
03/23/10	NR	NR	NR	NR	NR	7.80	8.54	10.16
06/16/10	NR	NR	NR	NR	NR	6.38	7.38	8.69
08/03/10	—	—	—	—	—	—	7.46	—
09/16/10	NR	NR	NR	NR	NR	11.19	6.98	8.19
12/16/10	9.15	10.14	8.49	9.21	8.10	7.92	7.32	8.81
03/16/11	9.80	10.29	9.62	9.23	8.93	14.30	9.23	9.03
06/06/11	10.00	9.67	9.10	9.00	8.67	7.28	7.72	8.68
10/05/11	10.73	9.44	9.35	10.08	8.62	7.12	7.09	8.15
12/14/11	NR	NR	NR	NR	NR	7.25	7.16	8.62
03/14/12	NR	NR	NR	NR	NR	6.60	7.03	7.66
06/25/12	10.11	11.00	9.68	9.97	9.12	6.35	7.23	8.42
10/18/12	9.07	9.28	9.10	9.40	8.54	7.86	8.26	9.41
01/16/13	9.63	9.39	9.13	8.01	8.29	7.70	8.20	9.50
04/02/13	9.76	9.60	9.50	9.25	8.54	6.99	6.79	8.14
07/11/13	9.98	10.77	10.58	10.07	9.25	6.10	7.49	7.35
09/16/13-09/17/13	9.65	10.55	9.43	9.63	9.10	7.33	7.45	8.61
11/25/13	12.09	12.72	13.21	12.31	11.30	7.99	8.01	9.58
02/25/14-02/26/14	16.30	17.88	18.82	19.64	12.68	11.86	10.11	20.81
06/27/14-06/28/14	9.64	9.98	9.69	9.90	9.10	7.14	0.27	0.20
09/30/14	4.42	8.05	4.04	5.20	8.89	6.24	7.15	8.25
12/02/14	8.54	7.77	4.84	5.85	4.84	4.42	4.49	4.55
03/27/15	29.75	38.24	35.22	35.39	22.30	31.40	20.48	35.18
06/30/15	9.26	10.17	8.74	7.70	8.51	7.79	8.17	9.47
10/16/15	12.42	11.23	8.23	8.10	8.35	6.59	7.56	8.28
01/06/16	9.02	8.87	8.72	8.41	9.00	7.72	8.08	9.24
03/16/16-03/17/16	9.22	9.46	8.64	8.84	8.15	7.79	7.66	8.85
07/28/16-07/29/16	8.15	8.24	7.09	8.82	7.73	7.06	6.97	8.47
10/18/16	7.40	6.99	7.10	7.44	5.70	6.28	6.19	7.51
12/06/16-12/07/16	7.99	8.56	8.55	8.55	7.39	7.62	7.00	8.82
03/06/17-03/07/17	8.02	7.44	6.79	7.24	6.15	6.08	5.90	7.20
06/25/17-07/06/17	8.69	7.44	8.60	9.31	7.80	6.56	6.93	7.63

^a Measurements by Argonne for the CCC/USDA.

^b NR, not recorded.

FIGURE 4.1 Carbon tetrachloride concentrations in groundwater in the Agra treatment area during the current reporting period, with circles representing areas within 30 ft and 80 ft of the approximate center of the LDB installations.

FIGURE 4.2a Sitewide groundwater level elevations on March 6 and 10, 2017, as interpreted from manually recorded data.

FIGURE 4.2b Sitewide groundwater level elevations on June 25-July 7, 2017, as interpreted from manually recorded data.

FIGURE 4.3a Treatment area groundwater level elevations on March 6 and 10, 2017, as interpreted from manually recorded data.

FIGURE 4.3b Treatment area groundwater level elevations on June 25-July 7, 2017, as interpreted from manually recorded data.

5 Analysis and Discussion

5.1 Effectiveness of the SVE/AS System in Removing Carbon Tetrachloride

Effective remediation of the identified soil and groundwater source at the former CCC/USDA grain storage facility requires (1) removal of contaminant mass in the unsaturated and saturated soils that is leaching into the groundwater and (2) a corresponding sustained reduction in dissolved VOCs concentrations in groundwater. The following measures are evidence of declining contaminant concentrations:

- Concentrations of carbon tetrachloride in extracted vapors dropped dramatically after system start-up, from approximately $46,000 \mu\text{g}/\text{m}^3$ (as measured in the SVE effluent) on May 29, 2009, to $34 \mu\text{g}/\text{m}^3$ on April 27, 2017.
- The carbon tetrachloride concentrations in soil gas also moderated, declining from a maximum of approximately $19,000 \mu\text{g}/\text{m}^3$ prior to system start-up (as measured at location SG1D on May 20, 2009) to a maximum of $12 \mu\text{g}/\text{m}^3$ at SG3D, on March 8, 2017.

The remedial system has had a more limited impact on VOCs in the saturated zone. In the localized hot-spot area, initial (prior to system start-up in May 2009) maximum carbon tetrachloride concentrations were approximately $6,000 \mu\text{g}/\text{L}$ at GW2 and $9,000 \mu\text{g}/\text{L}$ at GW3. In June 2017 (for the April-June 2017 quarter), the maximum concentrations were approximately $3,300 \mu\text{g}/\text{L}$ at GW2 and $1,200 \mu\text{g}/\text{L}$ at GW3 (the maximum concentrations in March 2017 were approximately $3,800 \mu\text{g}/\text{L}$ at GW2 and $1,700 \mu\text{g}/\text{L}$ at GW3).

The VOCs in extracted vapors (SVE effluent) represent a combination of vapors withdrawn from soil pores and vapors generated by the AS wells in the LDB backfill. At system start-up, the AS system was stripping VOCs primarily from the groundwater in the LDBs, and the mass removed was relatively high. More recently, mass removal by the AS system has been limited to the flux of dissolved VOCs entering the LDB backfill, which is controlled by groundwater flow velocities.

The initial rapid declines in VOCs concentrations in the soil gas monitoring wells and SVE wells indicate that significant amounts of the VOCs initially present were removed rapidly from the pore spaces of vadose zone soils. More recently, VOCs removal is likely occurring through relatively slow desorption from the predominantly low-permeability silt and clay in these soils.

The SVE/AS remedial system was operating well in general in 2009-2011 (with the exception of the persistent low flow at AS-5) and was effective in removing contaminant mass from the subsurface. While the radius of influence of the individual SVE wells in the vadose (unsaturated) zone provides excellent horizontal coverage in the treatment area, with substantial overlap between individual wells, the removal process also depends on groundwater flow into the LDBs. Therefore, an operating strategy to increase groundwater flow into the LDBs and hence increase their radius of influence in the saturated zone (and increase the rate of mass removal) was devised during the first half of 2012 (Argonne 2013a). Implementation and effectiveness of this optimization strategy is discussed in Section 5.2.

5.2 Optimization of System Performance

Inspection of the SVE/AS remedial system in November 2011 (Argonne 2012) led to system repairs and the installation of a larger AS blower (Argonne 2013a), plus rewiring and installation of new valves, relays, and timers (Table 1.1). Replacement of the blower resulted in consistently higher AS system pressures but not sustained improvement in the AS flow rates. The cumulative air flow in the AS system also remains below design values (Table 4.1), though the reported rates show some improvement. Overall, increased oversight has resulted in uninterrupted operation of the system from mid-January 2013 to mid-February 2016—more than three years.

In late May 2012, the SVE and AS systems were modified to permit individual operation of the SVE-3, SVE-4, and SVE-5 wells and the pulsed operation summarized in Table 5.1 (Argonne 2013a,b). Since then, monitoring data under cyclic (pulsing) operating conditions (Argonne 2013c, 2014a,b, 2015a,b, 2016a) have indicated limited potential for significant acceleration of the groundwater treatment via this approach. The effectiveness of pulsing and overall system performance in treating groundwater was therefore assessed with input from the GreenField original design engineer during the January-June 2015 monitoring period. Based on the findings of this assessment (Argonne 2015b), a program of supplemental testing and sampling at the IM site was recommended in the same report to help explore an alternative operations scheme for continuation of the source area cleanup. This program included the following elements:

- Shutdown of the SVE/AS system, to investigate for rebound
- Aquifer hydraulic testing, to determine potential groundwater migration rates
- Sampling of groundwater in SVE wells for VOCs

KDHE (2015c) approved the proposal to temporarily shut down the SVE/AS system for supplemental testing and sampling purposes. Argonne initiated this program on February 18, 2016, and conducted the baseline sampling event on this date prior to system shutdown. Argonne then conducted a one-month post-shutdown sampling event in conjunction with the quarterly sampling event on March 16-17, 2016, and a five-month post-shutdown sampling event in conjunction with the quarterly sampling event on July 28-29, 2016. The temporary shutdown testing was concluded and the SVE/AS system was restarted on September 20, 2016. Argonne conducted a sampling event on September 20, 2016, upon system restart; a one-week post-restart sampling event on September 27, 2016; and a one-month post-restart sampling event in conjunction with the quarterly sampling event on October 18, 2016.

The results of this program will be presented in a forthcoming report.

5.3 Summary and Conclusions

Operations continued uninterrupted from January 16, 2013, to February 18, 2016, when the SVE/AS system was temporarily shut down for supplemental testing and sampling purposes. The SVE/AS system was restarted on September 20, 2016, from which operation has been continuous.

A review of data from wells SVE-3, SVE-4, and SVE-5 (Argonne 2013b) and monitoring data generated from July 2012 through June 2013 under cyclic operating conditions (Argonne 2013c) indicated that the potential for significant acceleration of the groundwater treatment effort through this approach is limited. As a result, overall system operation was assessed, with input from the GreenField engineer, to determine strategies for optimizing system performance. The program of testing and sampling based on this assessment was approved by KDHE and was conducted during the January-June 2016 and July-December 2016 monitoring periods. The results of this program are currently being evaluated and will be presented in a forthcoming report.

5.4 Recommendations

A temporary shutdown of the SVE/AS system for supplemental testing and sampling purposes was initiated during the January-June 2016 monitoring period and concluded in the July-December 2016 monitoring period. The results of the shutdown will be presented in a future report.

For the current, ongoing phase of remediation, routine OMM for the SVE/AS system will remain the same (as outlined in Table 2.1) in the future. A reduction in sampling frequency for both groundwater and soil gas is justified by the stability in carbon tetrachloride values observed at the groundwater wells and soil gas probes monitored by Argonne (Tables 4.5 and 4.4, respectively). Carbon tetrachloride values observed at wells MW-J, MW-P, KMW03, GW1, GW2, GW3, GW4, and GW5 have historically fluctuated between individual sampling events, but have generally remained consistent over the period of monitoring. Carbon tetrachloride in soil gas has consistently remained at non-detectable levels at the monitored probes when the SVE/AS system is operating continuously (i.e., with the exception of samples collected during the temporary shutdown testing conducted in 2016). Given the stability of carbon tetrachloride values observed over time in groundwater and soil gas, sampling and reporting on a basis more frequent than annual is not warranted because additional subannual site data will provide no added value. Therefore, the CCC/USDA proposes that annual sampling of the groundwater and soil gas at Agra would be both sufficient and appropriate to monitor the continued evolution of the carbon tetrachloride distribution at this site.

TABLE 5.1 Schedule for pulsed operation, beginning in May 2012.

Well	Cycle	Flow Rate (scfm)
<i>SVE wells</i>		
SVE-1	Continuous	10
SVE-2	Continuous	10
SVE-3	1 hr on, 2 hr off	Maximum
SVE-4	1 hr on, 2 hr off	Maximum
SVE-5	1 hr on, 2 hr off	Maximum
<i>AS wells</i>		
AS-1	2 hr on, 2 hr off	3-5
AS-2	2 hr on, 2 hr off	3-5
AS-3	On in conjunction with SVE-3	5-10
AS-4	On in conjunction with SVE-4	5-10
AS-5	On in conjunction with SVE-5	5-10

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Appendix A:

**Data for Argonne's Twice-Yearly Soil Gas and Quarterly Groundwater Sampling
on March 6-8, 2017**

TABLE A.1 Sequence of activities during twice-yearly soil gas and quarterly groundwater sampling on March 6-8, 2017.

Sample Date and Time	Location	Sample	Sample Type ^a	Sample Depth (ft BGL)	Sample Matrix ^b	Chain of Custody	Shipment Date	Sample Description
3/6/17 17:20	GW1	AGGW1DUP-W-39726	DUP-F	43-53	WG	AG307171700	3/7/17	Field replicate.
3/6/17 17:20	GW1	AGGW1-W-39721	N	43-53	WG	AG307171700	3/7/17	Depth to water = 42.14 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Watera pump after purging 4.75 L.
3/6/17 18:20	GW2	AGGW2-W-39722	N	43-53	WG	AG307171700	3/7/17	Depth to water = 42.62 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Watera pump after purging 4.5 L.
3/6/17 18:20	GW2	AGGW2-W-39722VER	VER	43-53	WG	AG37171710	3/7/17	Verification sample sent to TestAmerica, Inc.
3/6/17 19:05	GW3	AGGW3-W-39723	N	43-53	WG	AG307171700	3/7/17	Depth to water = 42.31 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Watera pump after purging 4.75 L.
3/6/17 19:50	GW4	AGGW4-W-39724	N	43-53	WG	AG307171700	3/7/17	Depth to water = 42.55 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Watera pump after purging 4.5 L.
3/6/17 20:05	GW5	AGGW5-W-39725	N	43-53	WG	AG307171700	3/7/17	Depth to water = 42.54 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Watera pump after purging 4.5 L.
3/7/17 9:15	KMW-03	AGKMW3-W-39368	N	–	WG	AG307171700	3/7/17	Depth to water = 45.93 ft TOC. Depth of 2 in. well = 89 ft. Sample collected using low flow bladder pump after purging 5 L.
3/7/17 9:15	KMW-03	AGKMW3-W-39368VER	VER	–	WG	AG37171710	3/7/17	Verification sample sent to TestAmerica, Inc.
3/7/17 11:00	MW-J	AGMWJ-W-39369	N	56-66	WG	AG307171700	3/7/17	Depth to water = 43.36 ft TOC. Depth of 2 in. well = 66 ft. Sample collected using low flow bladder pump after purging 5 L.
3/7/17 11:00	MW-J	AGMWJ-W-39369DUP	DUP-L	56-66	WG	AG307171700	3/7/17	Duplicate laboratory analysis.
3/7/17 10:00	MW-P	AGMWP-W-39720	N	35.4-54.9	WG	AG307171700	3/7/17	Depth to water = 45.82 ft TOC. Depth of 2 in. well = 54.92 ft. Sample collected using low flow bladder pump after purging 5 L.
3/8/17 13:24	QC	AGBKGD-G-39737	N	–	SOIL GAS	AG38171700	3/8/17	Sample collected without purge. Begin pressure -28 in. Hg. End pressure 1 in. Hg.
3/7/17 16:00	QC	AGDIH2O-W-39728	FB	–	WQC	AG307171700	3/7/17	Field blank of water used for equipment decontamination during March 2017 sampling event.
3/7/17 10:15	QC	AGQCIR-W-39727	RI	–	WQC	AG307171700	3/7/17	Rinsate of decontaminated sampling line after collection of sample AGKMW3-W-39368.

TABLE A.1 (Cont.)

Sample Date and Time	Location	Sample	Sample Type ^a	Sample Depth (ft BGL)	Sample Matrix ^b	Chain of Custody	Shipment Date	Sample Description
3/7/17 16:00	QC	AGQCTB-W-39729	TB	–	WQC	AG307171700	3/7/17	Trip blank sent with water samples shipped to AGEM Laboratory.
3/7/17 16:00	QC	AGQCTB-W-39729VER	VER	–	WQC	AG37171710	3/7/17	Verification sample sent to TestAmerica, Inc.
3/8/17 12:14	SG1D	AGSG1D-G-39731	N	29-30	SOIL GAS	AG38171700	3/8/17	Sample collected after purging 3 tank volumes. Begin pressure -28 in. Hg. End pressure 0 in. Hg.
3/8/17 11:58	SG1S	AGSG1S-G-39730	N	20-21	SOIL GAS	AG38171700	3/8/17	Sample collected without purge. Begin pressure -27 in. Hg. End pressure 0 in. Hg.
3/8/17 12:41	SG2D	AGSG2D-G-39733	N	29-30	SOIL GAS	AG38171700	3/8/17	Sample collected after purging 3 tank volumes. Begin pressure -30 in. Hg. End pressure 0 in. Hg.
3/8/17 12:18	SG2S	AGSG2S-G-39732	N	20-21	SOIL GAS	AG38171700	3/8/17	Sample collected without purge. Begin pressure -26 in. Hg. End pressure -2 in. Hg.
3/8/17 13:32	SG3D	AGSG3DDUP-G-39736	DUP-F	29-30	SOIL GAS	AG38171700	3/8/17	Field replicate. Sample collected after purging 3 tank volumes. Begin pressure -30 in. Hg. End pressure -1 in. Hg.
3/8/17 13:21	SG3D	AGSG3D-G-39735	N	29-30	SOIL GAS	AG38171700	3/8/17	Sample collected after purging 3 tank volumes. Begin pressure -27 in. Hg. End pressure 1 in. Hg.
3/8/17 12:33	SG3S	AGSG3S-G-39734	N	20-21	SOIL GAS	AG38171700	3/8/17	Sample collected without purge. Begin pressure -27 in. Hg. End pressure 1 in. Hg.

^a Sample types: DUP-F, field replicate; DUP-L, duplicate lab analysis; FB, field blank; N, primary sample; RI, rinsate; TB, trip blank; VER, verification sample; WASTE, investigation-derived waste water.

^b Matrix codes: SOIL GAS, soil gas; WG, groundwater; WQC, QA/QC water sample, e.g., trip blank.

TABLE A.2 Field measurements during collection of groundwater samples on March 6-8, 2017.

Location	Sample ID	Depth (ft BGL)	Temperature (Deg.C)	pH	Conductivity (μ S/cm)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (mV)
GW1	AGGW1-W-39721	43-53	13.2	6.82	284	8.02	212.4
GW2	AGGW2-W-39722	43-53	11.6	7.36	266	7.44	202.5
GW3	AGGW3-W-39723	43-53	13.2	7.22	273	6.79	196.0
GW4	AGGW4-W-39724	43-53	13.5	7.21	239	7.24	190.3
GW5	AGGW5-W-39725	43-53	12.1	7.26	241	6.15	193.4
KMW-03	AGKMW3-W-39368	–	12.0	6.91	957	6.08	176.5
MW-J	AGMWJ-W-39369	56-66	12.0	6.89	1150	5.90	172.3
MW-P	AGMWP-W-39720	35.42-54.92	12.6	6.99	1345	7.20	175.7

TABLE A.3 TestAmerica analytical results for soil gas samples collected on March 6-8, 2017.^a

Location	Sample	Sample Date	Sample Type ^b	Sample Depth (ft BGL)	Carbon Tetrachloride (µg/m ³)	Chloroform (µg/m ³)	Methylene Chloride (µg/m ³)	1,2-Dichloroethane (µg/m ³)
SG1S	AGSG1S-G-39730	3/8/17	N	20-21	1.5 J ^c	9.8 U ^d	17 U	8.1 U
SG1D	AGSG1D-G-39731	3/8/17	N	29-30	5.0 J	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-39732	3/8/17	N	20-21	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-39733	3/8/17	N	29-30	13 U	9.8 U	2.6 J	8.1 U
SG3S	AGSG3S-G-39734	3/8/17	N	20-21	1.3 J	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-39735	3/8/17	N	29-30	12 J	9.8 U	17 U	8.1 U
SG3D	AGSG3DDUP-G-39736	3/8/17	DUP-F	29-30	11 J	9.8 U	17 U	8.1 U
QC	AGBKGD-G-39737	3/8/17	N	–	13 U	9.8 U	17 U	8.1 U

^a Analysis by TestAmerica, Burlington, VT for VOCs using EPA Method TO-15. The complete data package is in sample delivery group 200-37699 in Supplement 3 (on CD).

^b Sample types: DUP-F, field replicate; N, primary sample.

^c J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.

^d U, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

TABLE A.4 AGEM Laboratory analytical results for quarterly groundwater samples collected on March 6-8, 2017.

Location	Sample	Depth (ft BGL)	Concentration (µg/L)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2- Dichloroethane
GW1	AGGW1-W-39721	43-53	49	5.0	ND	ND
GW2	AGGW2-W-39722	43-53	3848 D ^a	21	ND	ND
GW3	AGGW3-W-39723	43-53	1701 D	11	ND	ND
GW4	AGGW4-W-39724	43-53	288 D	3.3	ND	ND
GW5	AGGW5-W-39725	43-53	ND ^b	ND	ND	ND
KMW-03	AGKMW3-W-39368	-	ND	ND	ND	ND
MW-P	AGMWP-W-39720	35.4-54.9	358 D	7.6	ND	ND
MW-J	AGMWJ-W-39369	56-66	12	ND	ND	ND

^a D, result is from analysis at secondary dilution factor.

^b ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

TABLE A.5 AGEM Laboratory analytical results for quality control samples collected during quarterly groundwater monitoring on March 6-8, 2017

Location	Sample	Depth (ft BGL)	Sample Type ^a	Concentration (µg/L)			
				Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2- Dichloroethane
GW1	AGGW1-W-39721	N	43-53	49	5.0	ND	ND
GW1	AGGW1DUP-W-39726	DUP-F	43-53	57	6.6	ND	ND
MW-J	AGMWJ-W-39369	N	56-66	12	ND	ND	ND
MW-J	AGMWJ-W-39369DUP	DUP-L	56-66	9.7	ND	ND	ND
QC	AGDIH2O-W-39728	FB	–	ND ^b	ND	ND	ND
QC	AGQCIR-W-39727	RI	–	ND	ND	ND	ND
QC	AGQCTB-W-39729	TB	–	ND	ND	ND	ND
QC	AGQCTB-W-39742	TB	–	ND	ND	ND	ND

^a Sample types: DUP-F, field replicate; DUP-L, duplicate lab analysis; FB, field blank; N, primary sample; RI, rinsate; TB, trip blank.

^b ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

TABLE A.6 Analytical results for quarterly groundwater samples collected on March 6-8, 2017, and submitted for verification analysis.^a

Location	Sample	Depth (ft BGL)	Analytical Laboratory	Concentration (µg/L)				Method Detection Limit
				Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2- Dichloroethane	
GW2	AGGW2-W-39722	43-53	AGEM	3,848 D ^b	21	ND ^c	ND	1
GW2	AGGW2-W-39722VER	43-53	TestAmerica	2,800 D	20	ND	ND	0.5
KMW-03	AGKMW3-W-39368	–	AGEM	ND	ND	ND	ND	1
KMW-03	AGKMW3-W-39368VER	–	TestAmerica	ND	ND	ND	ND	0.5
QC	AGQCTB-W-39729	–	AGEM	ND	ND	ND	ND	1
QC	AGQCTB-W-39729VER	–	TestAmerica	ND	ND	ND	ND	0.5

^a TestAmerica verification data are in sample delivery group 200-37664 in Supplement 4 (on CD).

^b D, result is from analysis at secondary dilution factor.

^c ND, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

Appendix B:

Data for Argonne's Quarterly Groundwater Sampling on June 25-July 6, 2017

TABLE B.1 Sequence of activities during quarterly groundwater sampling on June 25-July 6, 2017.

Sample Date:Time	Location	Sample	Sample Type ^a	Sample Depth (ft BGL)	Sample Matrix ^b	Chain of Custody	Shipment Date	Sample Description
6/25/17 10:00	QC	AGQCTB-W-39862	TB	–	WQC	AG627171345	6/27/17	Trip blank with water samples for VOC analysis to AGEM Laboratory.
6/25/17 10:00	QC	AGQCTB-W-39862DUP	DUP-L	–	WQC	AG627171345	6/27/17	Duplicate laboratory analysis.
6/25/17 15:20	KMW-03	AGKMW3-W-39745	N	74-89	WG	AG627171345	6/27/17	Depth to water = 45.53 ft TOC. Depth of 2-in. well = 89 ft. Sample collected using low flow bladder pump after purging 5 L. Pump intake positioned at 81.5 ft.
6/25/17 16:20	MW-P	AGMWP-W-39756	N	35.4-54.9	WG	AG627171345	6/27/17	Depth to water = 45.26 ft TOC. Depth of 2-in. well = 54.92 ft. Sample collected using low flow bladder pump after purging 5.25 L. Pump intake positioned at 45.17 ft.
6/25/17 16:45	QC	AGQCIR-W-39856	RI	–	WQC	AG627171345	6/27/17	Rinsate of decontaminated sampling line after collection of sample AGMWP-W-39756.
6/25/17 17:26	MW-J	AGMWJ-W-39752	N	56-66	WG	AG627171345	6/27/17	Depth to water = 42.81 ft TOC. Depth of 2-in. well = 66 ft. Sample collected using low flow bladder pump after purging 5 L. Pump intake positioned at 60 ft.
7/6/17 9:00	QC	AGDIH2O-W-39860	FB	–	WQC	AG78171345	7/8/17	Field blank of water used for equipment decontamination during March 2017 sampling event.
7/6/17 9:00	QC	AGQCTB-W-39864	TB	–	WQC	AG78171345	7/8/17	Trip blank with water samples for VOC analysis to AGEM Laboratory.
7/6/17 15:20	GW1	AGGW1-W-39763	N	43-53	WG	AG78171345	7/8/17	Depth to water = 41.62 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 4.8 L.
7/6/17 15:20	GW1	AGGW1-W-39763DUP	DUP-L	43-53	WG	AG78171345	7/8/17	Duplicate laboratory analysis.
7/6/17 16:05	GW2	AGGW2-W-39764	N	43-53	WG	AG78171345	7/8/17	Depth to water = 42.33 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 4.6 L.
7/6/17 17:05	GW3	AGGW3-W-39765	N	43-53	WG	AG78171345	7/8/17	Depth to water = 41.66 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 4.92 L.
7/6/17 17:55	GW4	AGGW4-W-39766	N	43-53	WG	AG78171345	7/8/17	Depth to water = 42.08 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 4.7 L.

TABLE B.1 (Cont.)

Sample Date:Time	Location	Sample	Sample Type ^a	Sample Depth (ft BGL)	Sample Matrix ^b	Chain of Custody	Shipment Date	Sample Description
7/6/17 18:50	GW5	AGGW5-W-39767	N	43-53	WG	AG78171345	7/8/17	Depth to water = 41.83 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 4.8 L.

^a Sample types: DUP-F, field replicate; DUP-L, duplicate lab analysis; FB, field blank; N, primary sample; RI, rinsate; TB, trip blank.

^b Matrix codes: WG, groundwater; WQC, QA/QC water sample, e.g., trip blank.

TABLE B.2 Field measurements made during collection of groundwater samples on June 25-July 6, 2017.

Location	Sample	Depth (ft BGL)	Temperature (Deg.C)	pH	Conductivity (μ S/cm)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (mV)
GW1	AGGW1-W-39763	43-53	16.2	7.36	1962	8.69	81.6
GW2	AGGW2-W-39764	43-53	16.6	7.41	1215	7.44	84.9
GW3	AGGW3-W-39765	43-53	15.5	7.42	1354	8.60	90.4
GW4	AGGW4-W-39766	43-53	15.7	7.42	975	9.31	84.9
GW5	AGGW5-W-39767	43-53	15.8	7.34	1692	7.80	91.7
KMW-03	AGKMW3-W-39745	–	14.9	7.17	1013	6.56	183.6
MW-J	AGMWJ-W-39752	54-66	16.0	7.13	1192	6.93	181.1
MW-P	AGMWP-W-39756	35.4-54.9	16.0	7.21	1423	7.63	173.7

TABLE B.3 AGEM Laboratory analytical results for quarterly groundwater samples collected on June 25-July 6, 2017.

Location	Sample	Depth (ft BGL)	Concentration (µg/L)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2- Dichloroethane
GW1	AGGW1-W-39763	43-53	48	4.9	ND	ND
GW2	AGGW2-W-39764	43-53	3324 D	18	ND	ND
GW3	AGGW3-W-39765	43-53	1209 D	11	ND	ND
GW4	AGGW4-W-39766	43-53	297 D	4.0	ND	ND
GW5	AGGW5-W-39767	43-53	ND	ND	ND	ND
KMW-03	AGKMW3-W-39745	74-89	ND	ND	ND	ND
MW-J	AGMWJ-W-39752	56-66	9.9	ND	ND	ND
MW-P	AGMWP-W-39756	35.4-54.9	337 D	6.1	ND	ND

^a D, sample analyzed at secondary dilution factor.

^b ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

TABLE B.4 AGEM Laboratory analytical results for quality control samples collected during quarterly groundwater monitoring on June 25-July 6, 2017.

Location	Sample	Sample Depth (ft BGL)	Sample Type ^a	Concentration (µg/L)			
				Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
GW1	AGGW1-W-39763	43-53	N	48	4.9	ND	ND
GW1	AGGW1-W-39763DUP	43-53	DUP-L	51	5.3	ND	ND
QC	AGQCTB-W-39862	–	TB	ND ^b	ND	ND	ND
QC	AGQCTB-W-39862DUP	–	DUP-L	ND	ND	ND	ND
QC	AGQCTB-W-39862	–	TB	ND	ND	ND	ND
QC	AGQCIR-W-39856	–	RI	ND	ND	ND	ND
QC	AGDIH2O-W-39860	–	FB	ND	ND	ND	ND
QC	AGQCTB-W-39864	–	TB	ND	ND	ND	ND

^a Sample types: DUP-F, field replicate; DUP-L, duplicate lab analysis; N, primary sample; RI, rinsate; TB, trip blank.

^b ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

Appendix C:

Well Locations and Water Level Data

TABLE C.1 Well location and completion data.

Well	Horizontal Location ^a		Reference Elevation ^a (ft AMSL)	Depth (ft BGL)		Sand Interval Elevation (ft AMSL)	
	Easting	Northing		Screen	Sand Pack	Top	Bottom
KMW01	997915	522702	1857.71	43-53	20-63	1835.15	1793.15
KMW02	998604	522716	1855.42	57-97	20-97	1833.59	1756.59
KMW03	998534	523065	1857.03	74-89	24-89	1831.4	1766.4
MW01	997831	522705	1856.9	41-51	39-53	1817.9	1803.9
MW02	997892	522640	1856.88	40-60	38-60	1816.26	1794.26
MW-B	997691	522742	1852.59	39-54	37-54.5	1815.74	1798.24
MW-C	997552	522534	1851.54	35-55	33-55	1818.89	1796.89
MW-F	997920	522543	1856.14	65-75	63-85	1790.6	1768.6
MW-G	998146	522430	1854.56	89-99	87-100	1767.79	1754.79
MW-H	997729	522837	1855.22	43-53	41-53	1814.56	1802.56
MW-I	998193	522730	1855.26	36-71	34-71	1821.38	1784.38
MW-J	998339	522914	1854.29	56-66	54-66	1800.44	1788.44
MW-K	997920	522915	1854.86	55-65	53-65	1802.18	1790.18
MW-L	998157	522251	1852.93	70-80	68-80	1785.17	1773.17
MW-M	998727	522242	1851.52	59-69	57-75	1794.82	1776.82
MW-O	997906	522816	1855.1	38-58	38-58	1817.15	1797.15
MW-P	998271	522970	1857.11	35.4-54.9	31-59	1823.5	1795.5
MW-Q	998034	522971	1857.78	43.3-62.8	38-69	1816.8	1785.8
MW-R	998105	523133	1859.43	44.5-64	38-66	1818.51	1790.51
SB15	999074	521178	1843.08	98.5-108.5	94-108.8	1746.87	1732.07
SB23	999489	520269	1830.32	100-106	99-106	1731.77	1724.77
SB23S	999487	520270	1830.46	49-55	48-55	1782.84	1775.84
SB28	998516	520640	1839.4	100-106	99-106	1741.01	1734.01
SB28S	998516	520646	1839.38	59-65	58-65	1781.91	1774.91
SB36	999115	520771	1837.93	42.7-62.7	40-64.7	1798.54	1773.84
SB38	999229	520932	1838.19	95-101	94-101	1744.65	1737.65
SB38S	999227	520927	1838.28	57-63	56-63	1782.75	1775.75
SB72	999214	522233	1845.79	59-69	57-69	1789.5	1781.5
GW1 ^b	998235	522992	1853.97	43-53	41-53	1812.97	1800.97
GW2 ^b	998264	523012	1854.28	43-53	41-53	1813.28	1801.28
GW3 ^b	998283	522995	1853.87	43-53	41-53	1812.87	1800.87
GW4 ^b	998246	523050	1854.69	43-53	41-53	1813.69	1801.69
GW5 ^b	998278	522907	1853.94	43-53	41-53	1812.94	1800.94

^a Northings and eastings are Kansas State Plane Coordinates in feet. Horizontal datum is converted North American Datum (NAD) 27. Vertical datum is National Geodetic Vertical Datum (NGVD) 29.

^b The horizontal locations for wells GW1-GW5 were established from geographic positioning system data measured in June 2009. The reference elevations for these wells were estimated in October 2012 with a transit, through comparison with the surveyed elevations for nearby wells MW-P and MW-J.

TABLE C.2 Hand-measured groundwater levels since 2009.

				7/30/09			6/28/11			10/3/12			6/6/13			9/6/13			2/15/14		
				WLs			WLs			WLs			WLs			WLs			WLs		
Easting	Northing	TOC ft amsl	Name	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl
997915	522702	1857.71	KMW-01	17:18	44.97	1812.74	11:28	44.16	1813.55	14:52	44.72	1812.99	14:26	45.57	1812.14	12:48	46.16	1811.55	14:09	46.66	1811.05
998604	522716	1855.42	KMW-02	17:47	43.73	1811.69	11:49	42.67	1812.75	15:08	43.24	1812.18	14:42	43.90	1811.52	12:42	44.46	1810.96	14:26	44.87	1810.55
998534	523065	1857.03	KMW-03							14:09	42.24	1814.79	14:04	43.06	1813.97	12:09	43.56	1813.47	11:52	44.10	1812.93
997892	522640	1856.88	MW-2	17:22	44.49	1812.39	11:33	43.64	1813.24	14:55	44.17	1812.71	14:29	45.02	1811.86	12:50	45.64	1811.24	14:14	46.14	1810.74
997691	522742	1852.59	MW-B	17:06	39.97	1812.62	11:24	39.22	1813.37	14:43	39.81	1812.78	14:18	40.65	1811.94	12:58	41.21	1811.38	14:01	41.75	1810.84
997920	522543	1856.14	MW-F	17:25	44.33	1811.81	11:36	43.44	1812.70	14:58	43.96	1812.18	14:32	44.88	1811.26	12:54	45.42	1810.72	14:18	45.95	1810.19
998193	522730	1855.26	MW-I	17:33	42.10	1813.16	11:43	41.33	1813.93	15:03	41.96	1813.30	14:38	42.74	1812.52	12:36	43.34	1811.92	14:22	43.55	1811.71
998339	522914	1854.29	MW-J	16:45	39.81	1814.48	13:48	39.07	1815.22	14:01	39.78	1814.51	13:45	40.64	1813.65	12:29	41.12	1813.17	13:43	41.59	1812.70
997920	522915	1854.86	MW-K	16:51	39.74	1815.12	13:21	39.02	1815.84	14:21	39.65	1815.21	13:50	40.49	1814.37	12:22	41.02	1813.84	13:57	41.46	1813.40
998157	522251	1852.93	MW-L	18:50	41.68	1811.25	11:12	40.86	1812.07	15:27	41.45	1811.48	15:00	42.30	1810.63	14:56	42.98	1809.95	14:45	43.28	1809.65
998727	522242	1851.52	MW-M	18:10	42.77	1808.75	12:03	41.39	1810.13	15:21	42.08	1809.44	14:54	42.53	1808.99	15:07	43.23	1808.29	14:38	43.51	1808.01
998271	522970	1857.11	MW-P	16:37	42.18	1814.93	14:10	41.46	1815.65	11:02	42.18	1814.93	11:20	43.03	1814.08	12:05	43.53	1813.58	12:00	43.97	1813.14
998034	522971	1857.78	MW-Q	16:56	42.36	1815.42	13:28	41.61	1816.17	14:17	42.22	1815.56	13:54	43.09	1814.69	12:19	43.62	1814.16	13:52	44.06	1813.72
998105	523133	1859.43	MW-R	16:33	42.56	1816.87	13:30	41.83	1817.60	14:14	42.45	1816.98	13:58	43.24	1816.19	12:14	43.85	1815.58	11:47	44.23	1815.20
999489	520269	1830.32	SB23	19:14	30.54	1799.78	10:42	27.93	1802.39	16:20	28.30	1802.02	15:34	29.05	1801.27	15:40	29.72	1800.60			
999487	520270	1830.46	SB23S	19:18	30.65	1799.81	10:45	28.02	1802.44	16:25	28.47	1801.99	15:37	29.18	1801.28	15:44	29.80	1800.66	15:04	30.06	1800.40
998516	520640	1839.40	SB28	19:00	38.18	1801.22	11:03	36.07	1803.33	15:42	36.50	1802.90	15:10	36.94	1802.46	15:59	37.98	1801.42	14:52	37.81	1801.59
998516	520646	1839.38	SB28S	18:56	38.00	1801.38	11:00	35.72	1803.66	15:55	36.33	1803.05	15:13	36.73	1802.65	15:55	37.61	1801.77	14:58	37.58	1801.80
999229	520932	1838.19	SB38	19:21	37.41	1800.78	12:36	37.02	1801.17	16:06	35.83	1802.36	15:18	36.24	1801.95	15:25	39.11	1799.08	15:19	36.88	1801.31
999227	520927	1838.28	SB38S	19:26	37.53	1800.75	12:29	36.55	1801.73	16:02	36.03	1802.25	15:24	36.37	1801.91	15:29	39.30	1798.98	15:21	36.92	1801.36
999214	522233	1845.79	SB72	18:04	37.84	1807.95	11:57	36.20	1809.59	15:16	37.05	1808.74	14:49	37.58	1808.21	15:20	38.33	1807.46	14:32	38.50	1807.29
998235	522992	1853.97	GW-1	19:59	38.40	1815.57				14:35	38.74	1815.23	12:41	39.57	1814.40	13:12	40.12	1813.85	11:34	40.58	1813.39
998264	523012	1854.28	GW-2	19:45	38.99	1815.29	14:18	38.40	1815.88	12:24	39.02	1815.26	12:45	39.98	1814.30	13:21	40.42	1813.86	11:42	40.88	1813.40
998283	522995	1853.87	GW-3	20:01	38.90	1814.97				14:31	38.68	1815.19	13:14	39.63	1814.24	13:15	40.06	1813.81	11:37	40.52	1813.35
998246	523050	1854.69	GW-4	19:38	39.09	1815.60	14:36	38.40	1816.29	12:14	39.03	1815.66	13:04	39.98	1814.71	13:07	40.48	1814.21	11:40	40.96	1813.73
998278	522907	1853.94	GW-5	19:55	38.74	1815.20	14:00	38.12	1815.82	12:39	38.88	1815.06	13:20	39.82	1814.12	13:43	40.25	1813.69	13:16	40.76	1813.18
GPS Transit Shots																					

TABLE C.2 (Cont.)

				6/10/14			7/31/14			9/30/14			11/19/14			12/2/14			2/6/15		
				WLS			WLS			WLS			WLS			WLS			WLS		
Easting	Northing	TOC ft amsl	Name	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl
997915	522702	1857.71	KMW-01	12:18	47.08	1810.63	13:57	47.30	1810.41				12:37	47.75	1809.96				11:56	47.84	1809.87
998604	522716	1855.42	KMW-02	12:48	45.27	1810.15	14:23	45.53	1809.89				12:53	45.94	1809.48				11:38	46.04	1809.38
998534	523065	1857.03	KMW-03	13:19	44.54	1812.49	13:07	44.75	1812.28	45.03	1812.00		13:17	45.19	1811.84	45.12	1811.91		12:38	45.30	1811.73
997892	522640	1856.88	MW-2	13:32	46.55	1810.33	14:00	46.78	1810.10				12:39	47.21	1809.67				11:58	47.30	1809.58
997691	522742	1852.59	MW-B	12:12	42.12	1810.47	13:50	42.30	1810.29				12:32	42.74	1809.85				12:06	42.87	1809.72
997920	522543	1856.14	MW-F	12:37	46.35	1809.79	14:03	46.78	1809.36				12:42	47.04	1809.10				12:00	47.15	1808.99
998193	522730	1855.26	MW-I	12:38	44.21	1811.05	14:12	44.45	1810.81				12:49	44.91	1810.35				11:44	44.82	1810.44
998339	522914	1854.29	MW-J	13:09	42.07	1812.22	12:59	42.28	1812.01	42.44	1811.85		13:11	42.70	1811.59	42.56	1811.73		12:28	42.75	1811.54
997920	522915	1854.86	MW-K	12:58	41.95	1812.91	13:20	42.15	1812.71				12:59	42.52	1812.34				12:15	42.60	1812.26
998157	522251	1852.93	MW-L	11:52	43.85	1809.08	14:43	44.15	1808.78				12:14	44.44	1808.49				11:13	44.60	1808.33
998727	522242	1851.52	MW-M	11:47	43.89	1807.63	14:36	44.27	1807.25				12:07	44.61	1806.91				11:21	44.68	1806.84
998271	522970	1857.11	MW-P	13:35	44.43	1812.68	13:24	44.62	1812.49	44.82	1812.29		13:55	45.09	1812.02	44.95	1812.16		12:43	45.18	1811.93
998034	522971	1857.78	MW-Q	13:03	44.50	1813.28	13:16	44.77	1813.01				13:03	45.16	1812.62				12:19	45.21	1812.57
998105	523133	1859.43	MW-R	13:14	44.70	1814.73	13:13	45.02	1814.41				13:50	45.33	1814.10				12:33	45.38	1814.05
999489	520269	1830.32	SB23	11:19	30.50	1799.82	15:01	30.98	1799.34				11:47	31.06	1799.26				10:40	31.17	1799.15
999487	520270	1830.46	SB23S	11:14	30.64	1799.82	15:03	30.98	1799.48				11:44	31.17	1799.29				10:38	31.24	1799.22
998516	520640	1839.40	SB28	12:03	38.37	1801.03	14:51	39.31	1800.09				12:24	38.99	1800.41				11:02	39.00	1800.40
998516	520646	1839.38	SB28S	12:00	38.14	1801.24	14:54	38.76	1800.62				12:20	38.75	1800.63				11:06	38.78	1800.60
999229	520932	1838.19	SB38	11:32	37.55	1800.64	15:16	41.65	1796.54				11:51	38.55	1799.64				10:55	38.04	1800.15
999227	520927	1838.28	SB38S	11:28	37.61	1800.67	15:20	39.82	1798.46				11:53	38.22	1800.06				10:51	38.09	1800.19
999214	522233	1845.79	SB72	11:40	38.85	1806.94	14:30	39.33	1806.46				12:01	39.50	1806.29				11:30	39.61	1806.18
998235	522992	1853.97	GW-1	13:41	41.24	1812.73	13:31	41.37	1812.60	41.39	1812.58		13:39	41.67	1812.30	41.60	1812.37		12:54	41.87	1812.10
998264	523012	1854.28	GW-2	14:21	41.34	1812.94	12:22	41.58	1812.70	42.22	1812.06		13:42	41.98	1812.30	42.15	1812.13		13:50	42.05	1812.23
998283	522995	1853.87	GW-3	13:43	41.01	1812.86	13:37	41.21	1812.66	41.36	1812.51		13:36	41.62	1812.25	41.55	1812.32		13:00	41.74	1812.13
998246	523050	1854.69	GW-4	13:38	41.40	1813.29	13:41	41.53	1813.16	41.92	1812.77		13:44	41.98	1812.71	42.08	1812.61		12:57	42.12	1812.57
998278	522907	1853.94	GW-5	14:35	41.27	1812.67	12:40	41.41	1812.53	41.69	1812.25		13:58	41.85	1812.09	41.72	1812.22		14:09	41.89	1812.05

TABLE C.2 (Cont.)

				5/12/15			8/14/15			11/3/15			1/29/16			7/28-8/1/16			12/6-7/16		
				WLS			WLS			WLS			WLS			WLS			WLS		
Easting	Northing	TOC ft amsl	Name	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl	Time	ft TOC	ft amsl
997915	522702	1857.71	KMW-01	11:45	48.10	1809.61	11:57	48.41	1809.30	12:21	48.63	1809.08	12:50	48.62	1809.09	14:10	48.60	1809.11	16:14	48.72	1808.99
998604	522716	1855.42	KMW-02	12:01	46.35	1809.07	11:48	46.67	1808.75	12:11	46.86	1808.56	13:20	46.91	1808.51	14:20	46.89	1808.53	15:52	46.69	1808.73
998534	523065	1857.03	KMW-03	12:26	45.62	1811.41	12:34	45.87	1811.16	13:02	46.07	1810.96	12:25	46.20	1810.83	10:53	46.70	1810.33	12:55	45.95	1811.08
997892	522640	1856.88	MW-2	11:48	47.55	1809.33	11:59	47.86	1809.02	12:26	48.11	1808.77	12:55	48.10	1808.78	14:30	48.10	1808.78	16:09	48.23	1808.65
997691	522742	1852.59	MW-B	11:40	43.07	1809.52	12:09	43.36	1809.23	12:37	43.55	1809.04	12:45	44.55	1808.04	14:40	43.50	1809.09	16:19	43.58	1809.01
997920	522543	1856.14	MW-F	11:51	47.41	1808.73	12:03	47.73	1808.41	12:29	47.99	1808.15	13:00	47.95	1808.19	14:50	48.00	1808.14	16:04	48.14	1808.00
998193	522730	1855.26	MW-I	11:57	45.28	1809.98	11:53	45.54	1809.72	12:16	45.79	1809.47	13:15	46.70	1808.56	15:00	45.75	1809.51	15:57	45.77	1809.49
998339	522914	1854.29	MW-J	12:46	43.17	1811.12	12:25	43.21	1811.08	12:58	43.53	1810.76	14:30	43.55	1810.74	12:00	43.55	1810.74	13:40	43.43	1810.86
997920	522915	1854.86	MW-K	12:09	42.90	1811.96	12:14	43.17	1811.69	12:43	43.33	1811.53	12:37	43.30	1811.56	15:10	43.25	1811.61	16:25	45.69	1809.17
998157	522251	1852.93	MW-L	11:33	44.84	1808.09	11:28	45.18	1807.75	12:05	45.59	1807.34	13:10	45.52	1807.41	15:20	45.55	1807.38	15:42	45.29	1807.64
998727	522242	1851.52	MW-M	11:28	44.99	1806.53	11:33	45.35	1806.17	12:00	45.61	1805.91	13:25	45.55	1805.97	15:30	45.60	1805.92	15:47	45.28	1806.24
998271	522970	1857.11	MW-P	12:30	45.52	1811.59	12:49	45.58	1811.53	13:18	45.95	1811.16	12:27	45.93	1811.18	11:10	45.95	1811.16	11:30	45.92	1811.19
998034	522971	1857.78	MW-Q	12:13	45.58	1812.20	12:19	45.82	1811.96	12:48	46.00	1811.78	12:35	45.95	1811.83				16:40	45.83	1811.95
998105	523133	1859.43	MW-R	12:20	45.79	1813.64	12:33	46.03	1813.40	12:52	46.20	1813.23	12:23	46.22	1813.21	15:40	46.33	1813.10	16:35	46.05	1813.38
999489	520269	1830.32	SB23	10:51	31.58	1798.74	10:56	32.01	1798.31	11:21	31.80	1798.52	14:00	32.10	1798.22	13:10	32.55	1797.77	15:17	32.21	1798.11
999487	520270	1830.46	SB23S	10:52	31.75	1798.71	10:51	32.14	1798.32	11:17	32.33	1798.13	13:55	32.20	1798.26	13:00	32.55	1797.91	15:15	32.38	1798.08
998516	520640	1839.40	SB28	11:02	39.49	1799.91	11:14	40.23	1799.17	11:45	40.10	1799.30	14:10	39.90	1799.50	13:50	40.85	1798.55	15:36	40.14	1799.26
998516	520646	1839.38	SB28S	11:03	39.28	1800.10	11:18	39.69	1799.69	11:42	39.95	1799.43	14:15	39.70	1799.68	13:40	40.30	1799.08	15:33	39.9	1799.48
999229	520932	1838.19	SB38	11:13	38.77	1799.42	11:02	42.51	1795.68	11:28	39.35	1798.84	13:42	39.30	1798.89	13:30	43.30	1794.89	15:23	39.41	1798.78
999227	520927	1838.28	SB38S	11:11	38.70	1799.58	11:06	40.58	1797.70	11:32	39.44	1798.84	13:40	39.10	1799.18	13:20	41.20	1797.08	15:26	39.48	1798.80
999214	522233	1845.79	SB72	11:22	39.96	1805.83	11:42	40.25	1805.54	11:54	40.51	1805.28	13:30	39.80	1805.99	14:00	40.35	1805.44	15:57	40.17	1805.62
998235	522992	1853.97	GW-1	12:37	42.18	1811.79	13:28	42.09	1811.88	13:12	42.52	1811.45	12:33	42.46	1811.51	9:45	42.55	1811.42	17:10	42.37	1811.60
998264	523012	1854.28	GW-2	14:20	42.50	1811.78	13:33	42.55	1811.73	15:02	42.81	1811.47	14:20	42.85	1811.43	11:40	43.40	1810.88	9:07	42.79	1811.49
998283	522995	1853.87	GW-3	12:34	42.17	1811.70	13:31	42.08	1811.79	13:15	42.48	1811.39	12:29	42.39	1811.48	10:15	42.60	1811.27	9:15	42.46	1811.41
998246	523050	1854.69	GW-4	12:41	42.49	1812.20	13:26	42.56	1812.13	13:07	42.85	1811.84	12:31	43.34	1811.35	11:00	42.95	1811.74	10:40	42.72	1811.97
998278	522907	1853.94	GW-5	14:35	42.31	1811.63	15:04	42.16	1811.78	15:18	42.61	1811.33	14:25	42.60	1811.34	12:20	42.75	1811.19	14:24	42.59	1811.35

TABLE C.2 (Cont.)

Easting	Northing	TOC ft amsl	Name	3/6&10/17			7/7/17		
				Time	WLs		Time	WLs	
					ft TOC	ft amsl		ft TOC	ft amsl
997915	522702	1857.71	KMW-01	12:05	48.49	1809.22	12:04	48.04	1809.67
998604	522716	1855.42	KMW-02	12:25	46.66	1808.76	9:49	46.08	1809.34
998534	523065	1857.03	KMW-03		45.93	1811.10			
997892	522640	1856.88	MW-2	12:10	47.96	1808.92	12:09	47.54	1809.34
997691	522742	1852.59	MW-B	12:00	43.46	1809.13	11:59	42.82	1809.77
997920	522543	1856.14	MW-F	12:15	47.83	1808.31	12:14	47.43	1808.71
998193	522730	1855.26	MW-I	12:20	45.6	1809.66	10:09	45.04	1810.22
998339	522914	1854.29	MW-J	12:00	43.52	1810.77	10:45	42.81	1811.48
997920	522915	1854.86	MW-K	11:55	43.11	1811.75	10:38	42.56	1812.30
998157	522251	1852.93	MW-L	12:25	45.28	1807.65	12:29	44.92	1808.01
998727	522242	1851.52	MW-M	12:30	45.19	1806.33	12:37	44.68	1806.84
998271	522970	1857.11	MW-P	13:25	45.89	1811.22	11:32	45.26	1811.85
998034	522971	1857.78	MW-Q	11:40	45.81	1811.97	11:04	45.28	1812.50
998105	523133	1859.43	MW-R	11:50	46.01	1813.42	11:54	45.91	1813.52
999489	520269	1830.32	SB23	13:05	32.34	1797.98	9:05	31.75	1798.57
999487	520270	1830.46	SB23S	13:07	32.24	1798.22	9:00	31.83	1798.63
998516	520640	1839.40	SB28	13:15	40.16	1799.24	9:34	39.77	1799.63
998516	520646	1839.38	SB28S	13:17	39.91	1799.47	9:30	39.56	1799.82
999229	520932	1838.19	SB38	12:47	39.42	1798.77	9:23	39.12	1799.07
999227	520927	1838.28	SB38S	12:45	39.52	1798.76	9:18	40.98	1797.30
999214	522233	1845.79	SB72	12:40	40.18	1805.61	9:43	39.2	1806.59
998235	522992	1853.97	GW-1	16:45	42.14	1811.83	11:51	41.64	1812.33
998264	523012	1854.28	GW-2	17:32	42.62	1811.66	11:10		
998283	522995	1853.87	GW-3	18:30	42.31	1811.56	11:21	41.68	1812.19
998246	523050	1854.69	GW-4	19:15	42.55	1812.14	11:27	42.1	1812.59
998278	522907	1853.94	GW-5	19:23	42.55	1811.39	10:55	41.74	1812.20

Supplement 1:

GreenField Report for Quarterly OMM Event on January 30, 2017

March 14, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Sixth Quarterly OMM Report of the Fourth OMM Contract**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of the quarterly OMM report of the referenced site. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

Melisa McElwee
GreenField Contractors, Inc.

Fourth Quarterly Report of the Third Scope of OMM Services

**Former Agra Commodity Credit Corporation, United States
Department of Agriculture Grain Storage Facility
Agra, Kansas**

KDHE Project Code: C6-074-00002

**Legal Description: SW ¼, SE ¼, NW ¼, S27, T3S, R16W
Phillips County, Kansas**

Prepared for:

**Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843**

Submitted by:

**GreenField Contractors, Inc.
Tim Pace, Remedial Director
P.O. Box 677
Salina, Kansas 67401-0677
(785)-822-0900**

March 14, 2017

GreenField Contractors, Inc.

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1.0 OPERATION, MAINTENANCE AND MONITORING

This quarterly OMM report for the USDA/CCC site located in Agra, Kansas, documents site activities from the sixth quarter of operation under the fourth scope of OMM services.

1.1 Operation and Maintenance

Between October 28, 2016 and January 30, 2017, two monthly OMM event and one quarterly OMM event was conducted at the Agra CCC/USDA site. The SVE and AS systems operated throughout the quarter. Vapor samples were collected from each individual SVE well line at the SVE manifold and one from the SVE effluent stack at the quarterly OMM event for laboratory analysis of carbon tetrachloride, chloroform, and 1,2 DCA. Groundwater samples were collected from onsite wells GW-1, 3, and 4 at the quarterly OMM event. General maintenance was conducted on the SVE and ASP systems as well.

Soil Vapor Extraction System

The SVE system operates SVE wells SVE-1 & 2 continuously while SVE-3, 4, & 5 are individually operated on alternating intervals. For consistency, SVE operating parameters are collected when SVE-1, 2, & 3 are operating. The SVE system operated at an average pre-filter vacuum of 75.4 inches of water and an average manifold flow rate of 163 cubic feet per minute (cfm) this quarter with the air dilution valve closed.

Monitoring activities on the SVE vapors included measuring total volatile organic compounds (VOC's), carbon dioxide, and oxygen concentrations on the SVE manifold and on each individual well line. Oxygen concentrations maintained 20.9 percent of extracted air. Carbon dioxide levels were at non-detectable levels. The vapor samples were collected from the SVE Effluent and the individual well lines at the SVE manifold at the quarterly OMM event. Vapor samples collected at the SVE manifold were analyzed via EPA Method TO-15 for VOC's carbon tetrachloride, chloroform, and 1,2 DCA. Carbon tetrachloride was detected in all of the six air samples collected ranging in concentration from 3.2 to 370 ug/m³. Chloroform was detected in the SVE-5 air sample at 2.0 ug/m³. 1,2 DCA was not detected above laboratory detection limits in any of the air samples analyzed.

Air Sparge System

The AS system operated at an average pressure of 19.3 psi and an average cumulative airflow rate of 11.8 scfm this quarter. Wellhead pressures ranged from 4.37 psi to greater than 10 psi. Individual well line airflow rates ranged from 3.2 to 4.2 scfm. The AS-4 well line flowmeter was noted to be broken. The well line was deactivated until a replacement flowmeter can be installed.

1.2 Monitoring Monitoring Wells

Groundwater samples were collected at the quarterly OMM event. The samples were analyzed for chloroform, carbon tetrachloride, and 1,2 DCA. Carbon tetrachloride was detected in the three groundwater samples ranging in concentration from 57.2 to 1,240 ug/L. Chloroform was detected in the GW-1 groundwater sample at 5.4 ug/L and the GW-4 sample at 3.7 ug/L. 1,2 DCA was not detected in the three groundwater samples analyzed. However, minimum detection levels were elevated in the GW-3 and GW-4 samples to 20 ug/L and 5 ug/L, respectively.

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA
 Facility Address: 671 Railroad Ave. Agra, KS
 Consultant: GreenField Contractors Inc.
 Reporting Period: 10/28/2016 through 1/30/2017
 Days in Reporting Period 94

Project #: 1491
 Consultant Project Mgr.: Tim Pace
 Number of Days SVE System Operating: 94
 Number of Days ASP System Operating: 94

Section 1 - Summary of Remedial Action

Groundwater:

 Pump & Treat: Total Fluids Pumps (Electric) Dual Phase Pumps (Electric)
 Total Fluids Pumps (Pneumatic) Dual Phase Pumps (Pneumatic)
 With Off-gas Treatment W/O Off-gas Treatment
Yes Air Sparge System:
 Recovery Trench(es): NO L ft. W ft. D ft.
 No. of GW Recovery Wells: No. of Sparge Wel Yes
 Startup Dates: GW Pump & Treat Sparge 5 Off-gas Treatment

 ISOC System: No. of ISOC Wells:
 Startup Dates: ISOC

Water Treatment System: Carbon Air Stripper Tower Tray Stripper
 Other (Specify):
 Public Well Treatment System: Carbon Air Stripper Tower Tray Stripper
 Other (Specify):
 Disposition of Treated Water: Sanitary Sewer NPDES Reinjection
 Other (Specify):

Soil:

YES Vapor Extraction System: With Off-gas Treatment W/O Off-gas Treatment:
 No. of SVE Wells: 5 Startup Dates: VES Off-gas Treatment

Comments:

SVE and ASP wells are installed in large diameter borings(LDBs)

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Continued Section 1 - Summary of Remedial Action

Major Equipment on Site:

	Brand	Type	Capacity	Date	Warr. Exp.
Skimmer Pumps:	Brand	Type	Capacity	Date	
Groundwater Pumps:	Brand	Type	Capacity	Date	
Pre-Treatment/Filter:	Brand	Type		Date	
Air Stripper:	Brand	Type	Capacity	Date	
Enclosure Type:	Fence	Building	Skid	Other	Trailer
Transfer Pumps:	Brand	Type	Capacity	Date	
Air Compressor:	Brand	Type		Date	
SVE Vacuum Pump:	Brand <u>Republic</u>	Type <u>HRB-900E</u>	Capacity	Date	
Sparge Blower Pump:	Brand <u>Reitschle</u>	Type <u>DLT-40</u>	Capacity	Date	
Oil/H2O Separator:	Brand	Type	Capacity	Date	
Knockout Tank:	Brand <u>Ametek</u>	Type <u>M5350B</u>	Capacity <u>350 cfm</u>	Date	
Vapor Phase Carbon:	Brand	Type		Date	
Water Phase Carbon:	Brand	Type		Date	
PWS Treatment Equip.	Brand	Type	Capacity	Date	
Telemetry:	Model <u>Sensaphone 2000</u>	Type		Date	
Off-gas Treatment Equip.:	Brand	Type	Capacity	Date	
ISOC Oxygen Injection System:	Brand	Type	Capacity	Date	

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 2 - Groundwater/Vapor Extraction/Injection Information

Design Air Flow Rate for Vapor Extraction System:	--	CFM	
Actual Ave. Flow Rate During 1st. Month of Operation:	<u>255.50</u>	CFM	
Actual Average System Flow Rate Since Start-up:	<u>193.95</u>	CFM	
Reporting Period Average Flow Rate:	<u>163.30</u>	CFM	
Blower Operation:	<u>X</u>	Continual	<u> </u> Cycling
Design Air Flow Rate for Air Sparge System:	<u>20.00</u>	CFM	
Actual Ave. Flow Rate During 1st. Month of Operation:	<u>19.10</u>	CFM	
Actual Average System Flow Rate Since Start-up:	<u>13.77</u>	CFM	
Reporting Period Average Flow Rate:	<u>11.83</u>	CFM	
Blower Operation:	<u>X</u>	Continual	<u> </u> Cycling

[illegible]

Section 4 - History of Major Maintenance/Repair Activities Since Start-up		
Date of Maintenance/Repair	Description of Work Performed	Performed by:
12/23/09	ASP vanes replaced.	GeoCore Inc.
1/13/10	SVE & ASP hour meters replaced.	GeoCore Inc.
10/6/11	ASP vanes replaced.	GreenField
1/26/11	ASP vanes replaced.	GeoCore Inc.
1/16/13	ASP vanes replaced.	TCW
8/1/13	ASP vanes replaced.	GeoCore Inc.
1/31/14	ASP vanes replaced.	GeoCore Inc.
8/1/14	ASP vanes & filters replaced.	GeoCore Inc.
1/23/15	ASP vanes & filters replaced.	GeoCore Inc.
7/28/15	ASP vanes & filters replaced.	GeoCore Inc.
12/1/15	ASP vanes & filters replaced.	GeoCore Inc.
10/28/16	ASP vanes & filters replaced.	GeoCore Inc.

Facility Name:	Former Agra CCC/USDA			Project #:	1491		
Section 6 - Well Inventory (Onsite and Offsite Wells)							
Wells				Wells			
Well No.	Date Install	Dia. (in.)	Screened Interval (ft)	Well No.	Date Install	Dia. (in.)	Screened Interval (ft)
GW-1				SVE-1		4	20-40
GW-3				SVE-2		4	20-40
GW-4				SVE-3		4	20-40
				SVE-4		4	20-40
				SVE-5		4	20-40
				AS-1		2	51.37-53.37
				AS-2		2	58-60
				AS-3		2	53.9-55.9
				AS-4		2	58-60
				AS-5		2	56.27-58.27

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 5/29/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.02		NA	NA
GW-3		--		NA	NA
GW-4		39.93		NA	NA

Date: 8/28/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.26		NA	NA
GW-3		39.16		NA	NA
GW-4		39.85		NA	NA

Date: 11/27/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		38.22		NA	NA
GW-3		38.25		NA	NA
GW-4		39.36		NA	NA

Date: 2/25/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.40		NA	NA
GW-3		37.94		NA	NA
GW-4		39.44		NA	NA

Date: 5/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.97		NA	NA
GW-3		38.36		NA	NA
GW-4		39.51		NA	NA

Date: 8/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.73		NA	NA
GW-3		37.73		NA	NA
GW-4		38.96		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 11/19/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.78		NA	NA
GW-3		37.72		NA	NA
GW-4		39.12		NA	NA

Date: 3/1/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.30		NA	NA
GW-3		37.92		NA	NA
GW-4		38.05		NA	NA

Date: 5/25/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		NA		NA	NA
GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* SWL'S not collected. Wellheads under water.

Date: 10/27/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		NA		NA	NA
*GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* No SWL'S. Water level indicator probe too big for 1" wells.

Date: 1/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

* No SWL'S. Water level indicator faulty.

Date: 4/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 7/31/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.40		NA	NA
*GW-3		38.40		NA	NA
*GW-4		39.30		NA	NA

Date: 10/30/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.92		NA	NA
*GW-3		38.87		NA	NA
*GW-4		39.91		NA	NA

Date: 2/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.12		NA	NA
*GW-3		39.04		NA	NA
*GW-4		40.28		NA	NA

Date: 4/26/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.41		NA	NA
*GW-3		39.26		NA	NA
*GW-4		40.41		NA	NA

Date: 8/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.93		NA	NA
*GW-3		39.79		NA	NA
*GW-4		40.20		NA	NA

Date: 10/29/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.28		NA	NA
*GW-3		40.20		NA	NA
*GW-4		40.48		NA	NA

Date: 1/31/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.55		NA	NA
*GW-3		40.47		NA	NA
*GW-4		40.91		NA	NA

Date: 4/30/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.02		NA	NA
*GW-3		40.89		NA	NA
*GW-4		41.28		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 8/1/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.27		NA	NA
*GW-3		41.21		NA	NA
*GW-4		41.59		NA	NA

Date: 10/29/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.57		NA	NA
*GW-3		41.51		NA	NA
*GW-4		41.84		NA	NA

Date: 1/23/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.62		NA	NA
*GW-3		41.56		NA	NA
*GW-4		41.96		NA	NA

Date: 4/30/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.95		NA	NA
*GW-3		41.92		NA	NA
*GW-4		42.28		NA	NA

Date: 7/28/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.04		NA	NA
*GW-3		42.08		NA	NA
*GW-4		42.52		NA	NA

Date: 10/29/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.53		NA	NA
*GW-3		42.43		NA	NA
*GW-4		42.85		NA	NA

Date: 1/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.37		NA	NA
*GW-3		42.21		NA	NA
*GW-4		42.80		NA	NA

Date: 4/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.64		NA	NA
*GW-3		42.66		NA	NA
*GW-4		42.84		NA	NA

Quarterly Monitoring Report

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Section 7 - Ground Water Elevations

Date: 7/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.55		NA	NA
*GW-3		42.60		NA	NA
*GW-4		42.95		NA	NA

Date: 10/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.01		NA	NA
*GW-3		41.99		NA	NA
*GW-4		42.41		NA	NA

Date: 1/30/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.27		NA	NA
*GW-3		42.23		NA	NA
*GW-4		42.63		NA	NA

Facility Name:		Quarterly Monitoring Report			Project #:			1491		
Section 10A - Monitoring & Recovery Well Analytical										
(Use ppb units)										
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane						Volume Purged (gallons)
Det. Level		8260B	8260B	8260B						
Well I.D.		Date								
GW-1	5/29/09	6.7	31.7	ND(1)						NA
	8/28/09	7.7	45.9	ND(1)						NA
	11/27/09	7.3	48.3	ND(1)						NA
	2/25/10	4.2	35.8	ND(1)						NA
	5/27/10	5.1	24.8	ND(1)						NA
	8/27/10	5.4	30.3	ND(1)						NA
	11/19/10	5.8	31.2	ND(1)						NA
	3/1/11	5.5	39.8	ND(1)						NA
	5/25/11	Unable to access due to rain water								
	10/27/11	5.4	34	ND(1)						NA
	1/26/12	5.7	38.9	ND(1)						NA
	4/26/12	5	39.3	ND(1)						NA
	7/31/12	4.8	45	ND(1)						NA
	10/30/12	5.7	45.6	ND(1)						NA
	2/1/13	3.3	30.7	ND(1)						NA
	4/26/13	5.1	56.2	ND(1)						NA
	8/1/13	5.7	50.3	ND(1)						NA
	10/29/13	5.7	84.6	ND(1)						NA
	1/31/14	5.6	93.7	ND(1)						NA
	4/30/14	5	70	ND(1)						NA
	8/1/14	5.8	76.6	ND(1)						NA
	10/29/14	4.5	66.1	ND(1)						NA
	1/23/15	6.3	82.7	ND(1)						NA
	4/30/15	4.8	48	ND(1)						NA
	7/28/15	5.8	49.7	ND(1)						NA
	10/29/15	7	55.8	ND(1)						NA
	1/29/16	4.1	47.6	ND(1)						NA
	4/29/16	5.5	53	ND(1)						NA
	7/28/16	6	49.3	ND(1)						1
	*10/28/2016	6.6	67.4	ND(1)						1
	1/30/17	5.4	57.2	ND(1)						1
*Sample not preserved to a pH<2.										
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane						Volume Purged (gallons)
Det. Level		8260B	8260B	8260B						
Well I.D.		Date								
GW-3	5/29/09	22.7	1210	ND(1)						NA
	8/28/09	29.4	968	ND(20)						NA
	11/27/09	17.4	797	ND(10)						NA
	2/25/10	15.2	733	ND(5)						NA
	5/27/10	16	748	ND(5)						NA
	8/27/10	17.4	913	ND(10)						NA
	11/19/10	25.2	629	ND(10)						NA
	3/1/11	23.3	1180	ND(1)						NA
	5/25/11	Unable to access due to rain water								
	10/27/11	16.2	867	ND(10)						NA
	1									

*Sample not preserved to a pH<2.

Facility Name:		Former Agra CCC/USDA			Quarterly Monitoring Report					Project #: 1491	
Section 10A - Monitoring & Recovery Well Analytical											
		(Use ppb units)									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane						Volume Purged (gallons)	
Det. Level		8260B	8260B	8260B							
Well I.D.		0.5	0.5	0.5							
Date											
GW-4	5/29/09	2.6	78.6	ND(1)						NA	
	8/28/09	4.1	154	ND(1)						NA	
	11/27/09	2.9	150	ND(2)						NA	
	2/25/10	3.1	228	ND(2)						NA	
	5/27/10	2.5	191	ND(2)						NA	
	8/27/10	1.8	70.1	ND(1)						NA	
	11/19/10	1.7	77.5	ND(1)						NA	
	3/1/11	2.6	184	ND(1)						NA	
	5/25/11	Unable to access due to rain water									
	10/27/11	2.5	172	ND(2)						NA	
	1/26/12	3.3	259	ND(1)						NA	
	4/26/12	3.2	199	ND(1)						NA	
	7/31/12	4.2	183	ND(1)						NA	
	10/30/12	4.1	262	ND(5)						NA	
	2/1/13	5.5	45.6	ND(1)						NA	
	4/26/13	3.9	246	ND(1)						NA	
	8/1/13	6.7	236	ND(5)						NA	
	10/29/13	3.9	243	ND(1)						NA	
	1/31/14	ND(5)	337	ND(5)						NA	
	4/30/14	ND(5)	274	ND(5)						NA	
	8/1/14	ND(5)	223	ND(5)						NA	
	10/29/14	3.8	259	ND(1)						NA	
	1/23/15	3.4	276	ND(2)						NA	
	4/30/15	3.2	191	ND(2)						NA	
	7/28/15	2.2	99.7	ND(1)						NA	
	10/29/15	4.4	193	ND(1)						NA	
	1/29/16	3	160	ND(1)						NA	
	4/29/16	ND(5)	264	ND(5)						NA	
	7/28/16	4.8	288	ND(1)						1	
	*10/28/2016	ND(5)	268	ND(5)						1	
	1/30/17	3.7	242	ND(1)						1	

*Sample not preserved to a pH<2.

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 14 - Groundwater Trends

Indicate below any patterns/trends in groundwater fluctuations and discuss hydrological features that may contribute to such fluctuations (i.e., irrigation ditches, ponds, wells, etc.)

Groundwater elevations decreased an average of 0.24 feet across the site between October 2016 and January 2017.

Section 15 - SVE Unit Field and Laboratory Analytical Results

SVE Unit: Effluent

Date	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID)
	EPA TO-15 ug/m3	EPA TO-15 ug/m3	EPA TO-15 ug/m3	Readings (%)	Readings (%)	Readings (ppm)
*5/29/09	2,000	46,000	ND(64)	--	--	--
06/23/09	99	1,100	ND(2.2)	19.7	0	0.2
07/30/09	26	460	ND(2.5)	20.9	0	0
08/28/09	ND(14)	40	ND(11)	19.1	0	0.2
09/23/09	--	--	--	20.9	0	0.4
10/28/09	--	--	--	20.9	0	4.1
11/27/09	8.8	182	ND(3.2)	20.9	0	0.4
12/23/09	--	--	--	20.9	0	0.8
01/28/10	--	--	--	20.9	0	0
02/25/10	12	115	ND(0.81)	20	0	2.2
03/23/10	--	--	--	20.9	0	0
04/29/10	--	--	--	20.9	0	0
05/27/10	6.8	143	ND(3.2)	20.6	0	0
06/22/10	--	--	--	20.3	0	0
07/28/10	--	--	--	20.7	0	0
08/27/10	2.9	34	ND(3.2)	20.9	0	0
09/28/10	--	--	--	20.9	0	0
10/28/10	--	--	--	20.6	0	0
11/19/10	97.2	13000	ND(3.2)	20.9	0	0
12/27/10	--	--	--	21.5	0	0
02/02/11	--	--	--	--	--	--
03/01/11	ND(3.9)	71.7	ND(3.2)	20.9	0	0.1
03/29/11	--	--	--	20.9	0	0
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	49	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0
09/26/11	--	--	--	20.4	0	1.2
10/27/11	ND(3.9)	33	ND(3.2)	20.9	0	0.2
11/28/11	--	--	--	20.9	0	0
12/29/11	--	--	--	20.9	0	0.2
01/26/12	ND(3.9)	21	ND(3.2)	20.9	0	0.2
02/21/12	--	--	--	20.9	0	0.1
03/29/12	--	--	--	20.7	0	0
04/26/12	ND(3.9)	25	ND(3.2)	20.9	0	0.3
05/31/12	--	--	--	20.9	0	0
06/28/12	--	--	--	20.9	0	0
07/31/12	ND(3.9)	52	ND(3.2)	20.9	0	0
08/31/12	--	--	--	20.9	0	0.2
09/27/12	--	--	--	20.9	0	0
10/30/12	ND(3.9)	27	ND(3.2)	20.9	0	0
12/01/12	--	--	--	20.9	0	0
12/27/12	--	--	--	20.9	0	0
	Continued					

*5/29/09 SVE/AS System Start-up

Section 15 - SVE Unit Field and Laboratory Analytical Results

SVE Unit: Effluent

Date	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID)
	EPA TO-15	EPA TO-15	EPA TO-15	Readings (%)	Readings (%)	Readings (ppm)
Reporting Units	ug/m3	ug/m3	ug/m3			
02/01/13	ND(3.9)	9.4	ND(3.2)	20.9	0	0
02/28/13	---	---	---	20.9	0	0
03/26/13	---	---	---	20.9	0	0
04/26/13	ND(3.9)	20	ND(3.2)	19.8	0	0
05/30/13	---	---	---	20.9	0	0
06/27/13	---	---	---	20.5	0	0
08/01/13	ND(3.9)	48	ND(3.2)	20.9	0	0
08/31/13	---	---	---	20.9	0	0
09/27/13	---	---	---	20.9	0	0
10/29/13	ND(3.9)	38	ND(3.2)	20.5	0	0
12/02/13	---	---	---	20.9	0	0
12/28/13	---	---	---	20.9	0	0.2
01/31/14	ND(3.9)	9.4	ND(3.2)	20.9	0	0
02/26/14	---	---	---	20.9	0	0
03/27/14	---	---	---	20.6	0	0
04/30/14	ND(3.9)	15	ND(3.2)	20.9	0	0
05/27/14	---	---	---	20.9	0	0
06/26/14	---	---	---	20.9	0	0
08/01/14	ND(3.9)	63.5	ND(3.2)	20.9	0	0
08/28/14	---	---	---	20.9	0	0
09/29/14	---	---	---	20.9	0	0
10/29/14	ND(3.9)	41	ND(3.2)	20.9	0	0
11/26/14	---	---	---	20.9	0	0
12/31/14	---	---	---	20.9	0	0
01/23/15	ND(3.9)	11	ND(3.2)	20.9	0	0
02/27/15	---	---	---	20.9	0	0
04/01/15	---	---	---	20.9	0	0
04/30/15	ND(3.9)	50	ND(3.2)	20.9	0	0
05/30/15	---	---	---	20.9	0	0
06/29/15	---	---	---	20.9	0	0
07/28/15	ND(3.9)	76.7	ND(3.2)	20.9	0	0
08/27/15	---	---	---	20.9	0	0
09/29/15	---	---	---	20.9	0	0
10/29/15	ND(3.9)	38	ND(3.2)	20.9	0	0
12/01/15	---	---	---	20.9	0	0
01/02/16	---	---	---	20.9	0	0
01/29/16	ND(3.9)	82.4	ND(3.2)	20.9	0	0
02/18/16	System deactivated for rebound					
09/29/16	---	---	---	20.9	0	0
10/28/16	ND(0.98)	25	ND(0.81)	20.9	0	0
11/29/16	---	---	---	20.9	0	0
12/29/16	---	---	---	20.9	0	0
01/30/17	ND(3.9)	64.2	ND(3.2)	20.9	0	0

Quarterly Monitoring Report									
Facility Name: Former Agra CCC/USDA				Project #: 1491					
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well: SVE-1 (Report in ug/m3)									
		LABORATORY ANALYSIS					FIELD ANALYSIS		
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
05/29/09		710	5,900	ND(31)			--	--	--
06/23/09		11	150	ND(2.6)			19.7	0	0.2
07/30/09		5.1	21	ND(2.4)			20.9	0	0.3
08/28/09		5	20	ND(3.2)			19	0	0.1
09/23/09		--	--	--			20.9	0	0.6
10/28/09		--	--	--			20.9	0	28.1
11/27/09		ND(3.9)	16	ND(3.2)			20.9	0	0.6
12/23/09		--	--	--			20.9	0	3.8
01/28/10		--	--	--			20.9	0	0
02/25/10		2	62	ND(0.81)			20	0	3.9
03/23/10							20.9	0	2.1
04/29/10							20.9	0	0
05/27/10		ND(3.9)	23	ND(3.2)			20.6	0	0
06/22/10		--	--	--			20.3	0	0
07/28/10		--	--	--			20.6	0	0
08/27/10		ND(3.9)	7.5	ND(3.2)			20.9	0	0.4
09/28/10		--	--	--			20.9	0	0.2
10/28/10		--	--	--			20.6	0	0.2
11/19/10		ND(3.9)	138	ND(3.2)			20.6	0	0
12/27/10		--	--	--			21.3	0	0.2
02/02/11		--	--	--			20.9	0	0.2
03/01/11		ND(3.9)	42	ND(3.2)			20.9	0	0.2
03/29/11		--	--	--			20.9	0	0.2
04/27/11		--	--	--			20.9	0	0
05/25/11		ND(3.9)	95	ND(3.2)			20.9	0	0
08/30/11		--	--	--			20.9	0	0.1
09/26/11		--	--	--			20.3	0	1.1
10/27/11		ND(3.9)	5.6	ND(3.2)			20.9	0	0.1
11/28/11		--	--	--			20.9	0	0.1
12/29/11		--	--	--			20.9	0	0.4
01/26/12		ND(3.9)	9.4	ND(3.2)			20.9	0	0.1
02/21/12		--	--	--			20.6	0	0.6
03/29/12		--	--	--			20.9	0	0
04/26/12		ND(3.9)	15	ND(3.2)			20.9	0	0.5
05/31/12		--	--	--			20.9	0	0.1
06/28/12		--	--	--			20.9	0	0.1
07/31/12		Sampling Error					20.9	0	0
08/31/12		--	--	--			20.9	0	0.5
09/27/12		--	--	--			20.9	0	0
10/30/12		ND(3.9)	15	ND(3.2)			20.9	0	0
12/01/12		--	--	--			20.9	0	0.5
12/28/12		--	--	--			20.9	0	0
02/01/13		ND(3.9)	23	ND(3.2)			20.9	0	0.2
02/28/13		--	--	--			20.9	0	0
03/26/13		--	--	--			20.9	0	0.1
04/26/13		ND(3.9)	11	ND(3.2)			19.8	0	0
05/30/13		--	--	--			20.9	0	0
06/27/13		--	--	--			20.5	0	0
08/01/13		ND(3.9)	13	ND(3.2)			20.9	0	0
08/30/13		--	--	--			20.9	0	0
09/27/13		--	--	--			20.9	0	0
10/29/13		ND(0.98)	1.1	ND(0.81)			20.9	0	0
12/02/13		--	--	--			20.9	0	0
12/28/13		--	--	--			20.9	0	0.4
01/31/14		ND(3.9)	8.2	ND(3.2)			20.9	0	0
02/26/14		--	--	--			20.9	0	0
03/27/14		--	--	--			20.9	0	0
04/30/14		ND(3.9)	18	ND(3.2)			20.9	0	0
05/27/14		--	--	--			20.9	0	0
06/26/14		--	--	--			20.9	0	0
08/01/14		ND(3.9)	13	ND(3.2)			20.9	0	0
08/28/14		--	--	--			20.9	0	0
09/29/14		--	--	--			20.9	0	0
10/29/14		ND(3.9)	10	ND(3.2)			20.9	0	0
11/26/14		--	--	--			20.9	0	0
12/31/14		--	--	--			20.9	0	0
01/23/15		ND(3.9)	11	8.5			20.9	0	0
02/27/15		--	--	--			20.9	0	0
04/01/15		--	--	--			20.9	0	0
04/30/15		ND(3.9)	7.5	ND(3.2)			20.9	0	0
05/30/15		--	--	--			20.9	0	0
		Continued							

Facility Name:		Quarterly Monitoring Report					Project #:		
Former Agra CCC/USDA							1491		
Section 17 - SVE Well Field and Laboratory Analytical Results									
(Report in ug/m3)									
SVE Well: SVE-1		LABORATORY ANALYSIS					FIELD ANALYSIS		
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
06/29/15		--	--	--			20.9	0	0
07/28/15		ND(3.9)	17	ND(3.2)			20.9	0	0
08/27/15		--	--	--			20.9	0	0
09/29/15		--	--	--			20.9	0	0
10/29/15		ND(3.9)	8.8	ND(3.2)			20.9	0	0
12/01/15		--	--	--			20.9	0	0
01/02/16		--	--	--			20.9	0	0
01/29/16		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
02/18/16		System deactivated for rebound							
09/29/16		--	--	--			20.9	0	0
10/28/16		ND(0.98)	1.1	ND(0.81)			20.9	0	0
11/29/16		--	--	--			20.9	0	0
12/29/16		--	--	--			20.9	0	0
01/30/17		ND(3.9)	6.2	ND(3.2)			20.9	0	0

Section 17 - SVE Well Field and Laboratory Analytical Results									
(Report in ug/m3)									
SVE Well: SVE-2		LABORATORY ANALYSIS					FIELD ANALYSIS		
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
05/29/09		480	8,800	ND(48)			--	--	--
06/23/09		17	49	ND(2.5)			19.7	0	0.3
07/30/09		5.2	26	ND(2.4)			20.9	0	0.6
08/28/09		1	5	ND(0.80)			19.2	0	0.3
09/23/09		--	--	--			20.9	0	0.7
10/28/09		--	--	--			20.9	0	26.6
11/27/09		2.1	23	ND(3.2)			20.9	0	1.2
12/23/09		--	--	--			20.9	0	5.3
01/28/10		--	--	--			20.9	0	0
02/25/10		1.6	12	ND(0.81)			19.9	0	2.6
03/23/10		--	--	--			20.6	0	2.6
04/29/10		--	--	--			20.9	0	0
05/27/10		ND(3.9)	6.3	ND(3.2)			20.7	0	0
06/22/10		--	--	--			20.4	0	0
07/28/10		--	--	--			20.7	0	0
08/27/10		ND(3.9)	3.8	ND(3.2)			20.9	0	0.4
09/28/10		--	--	--			20.9	0	0.2
10/28/10		--	--	--			20.6	0	0.2
11/19/10		55.7	12000	ND(3.2)			20.6	0	0
12/27/10		--	--	--			21.5	0	0
02/02/10		--	--	--			20.8	0	0
03/01/11		ND(3.9)	5.4	ND(3.2)			20.9	0	0.2
03/29/11		--	--	--			20.9	0	0.2
04/27/11		--	--	--			20.9	0	0
05/25/11		ND(3.9)	23	ND(3.2)			20.9	0	0
08/30/11		--	--	--			20.9	0	0
09/26/11		--	--	--			20.3	0	1.2
10/27/11		ND(3.9)	3.5	ND(3.2)			20.9	0	0.4
11/28/11		--	--	--			20.9	0	0
12/29/11		--	--	--			20.9	0	0.8
01/26/12		ND(3.9)	6.9	ND(3.2)			20.8	0	0
02/21/12		--	--	--			20.6	0	0.6
03/29/12		--	--	--			20.9	0	0.1
04/26/12		ND(3.9)	13	ND(3.2)			20.9	0	0.9
05/31/12		--	--	--			20.9	0	0
06/28/12		--	--	--			20.9	0	0
07/31/12		ND(3.9)	7.5	ND(3.2)			20.9	0	0
08/31/12		--	--	--			20.9	0	0.7
09/27/12		--	--	--			20.9	0	0
10/30/12		2.3	3.7	ND(3.2)			20.9	0	0
12/01/12		--	--	--			20.9	0	0.5
12/28/12		--	--	--			20.9	0	0
02/01/13		ND(3.9)	3.7	ND(3.2)			20.9	0	0.2
02/28/13		--	--	--			20.9	0	0
03/26/13		--	--	--			20.9	0	0
04/26/13		ND(3.9)	5.9	ND(3.2)			19.6	0	0
05/30/13		--	--	--			20.9	0	0
06/27/13		--	--	--			20.3	0	0
08/01/13		ND(3.9)	4.3	ND(3.2)			20.9	0	0
08/31/13		--	--	--			20.9	0	0
09/27/13		--	--	--			20.9	0	0
10/29/13		ND(0.98)	0.82	ND(0.81)			20.9	0	0
12/02/13		--	--	--			20.8	0	0
12/28/13		--	--	--			20.9	0	0.3
01/31/14		ND(3.9)	3.3	ND(3.2)			20.9	0	0
02/26/14		--	--	--			20.9	0	0
03/27/14		--	--	--			20.6	0	0
04/30/14		ND(3.9)	6.3	ND(3.2)			20.9	0	0
05/27/14		--	--	--			20.9	0	0
06/26/14		--	--	--			20.9	0	0
08/01/14		ND(3.9)	5.3	ND(3.2)			20.9	0	0
08/28/14		--	--	--			20.9	0	0
09/29/14		--	--	--			20.9	0	0
10/29/14		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
11/26/14		--	--	--			20.9	0	0
12/31/14		--	--	--			20.9	0	0
01/23/15		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
02/27/15		--	--	--			20.9	0	0
04/01/15		--	--	--			20.9	0	0
04/30/15		ND(3.9)	2.9	ND(3.2)			20.9	0	0
05/30/15		--	--	--			20.9	0	0
		Continued							

Facility Name:				Former Agra CCC/USDA				Quarterly Monitoring Report			Project #:		1491		
Section 17 - SVE Well Field and Laboratory Analytical Results															
(Report in ug/m3)															
SVE Well:		SVE-2		LABORATORY ANALYSIS						FIELD ANALYSIS					
				Chloroform		Carbon		1,2-DCA							
						Tetrachloride									
Method:				EPA TO-15		EPA TO-15		EPA TO-15						O2	
Date														Readings	
														(%)	
06/29/15				---		---		---						20.9	
07/28/15				ND(3.9)		4.5		ND(3.2)						0	
08/27/15				---		---		---						0	
09/29/15				---		---		---						0	
10/29/15				ND(3.9)		ND(5)		ND(3.2)						0	
12/01/15				---		---		---						0	
01/02/16				---		---		---						0	
01/29/16				ND(3.9)		42		ND(3.2)						0	
02/18/16				System deactivated for rebound										0	
09/29/16				---		---		---						20.9	
10/28/16				ND(0.98)		2.6		ND(0.81)						0	
11/29/16				---		---		---						0	
12/29/16				---		---		---						0	
01/30/17				ND(3.9)		3.2		ND(3.2)						0	
				---		---		---						20.9	
														0	

Section 17 - SVE Well Field and Laboratory Analytical Results									
(Report in ug/m3)									
SVE Well: SVE-3									
Method:	LABORATORY ANALYSIS					FIELD ANALYSIS			
	Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)	
	EPA TO-15	Tetrachloride	EPA TO-15			Readings (%)	Readings (%)	Readings (ppm)	
Date									
05/29/09	2,600	60,000	ND(310)			--	--	--	
06/23/09	190	2,000	ND(2.5)			19.6	0	0.2	
07/30/09	54	950	ND(2.4)			20.9	0	0.6	
08/28/09	37	502	ND(3.2)			19.1	0	0.4	
09/23/09	--	--	--			20.9	0	0.7	
10/28/09	--	--	--			20.9	0	27.4	
11/27/09	21	528	ND(3.2)			20.9	0	0.7	
12/23/09	--	--	--			20.9	0	4.2	
01/28/10	--	--	--			20.9	0	0	
02/25/10	28	238	ND(1.6)			20	0	5	
03/23/10	--	--	--			20.9	0	0	
04/29/10	--	--	--			20.9	0	0	
05/27/10	15	345	ND(3.2)			20.6	0	0	
06/22/10	--	--	--			20.4	0	0.1	
07/28/10	--	--	--			20.6	0	0	
08/27/10	9.3	113	ND(3.2)			20.9	0	0.3	
09/28/10	--	--	--			20.9	0	0.3	
10/28/10	--	--	--			20.6	0	0.2	
11/19/10	47	7110	ND(3.2)			20.9	0	0	
12/27/10	--	--	--			21.5	0	0	
02/02/11	--	--	--			20.9	0	0	
03/01/11	ND(3.9)	96.2	ND(3.2)			20.9	0	0	
03/29/11	--	--	--			20.9	0	0	
04/27/11	--	--	--			20.9	0	0	
05/25/11	ND(3.9)	5	ND(3.2)			20.9	0	0	
08/30/11	--	--	--			20.9	0	0	
09/23/11	--	--	--			20.4	0	1.3	
10/27/11	3	165	ND(3.2)			20.9	0	0.2	
11/28/11	--	--	--			20.9	0	0	
12/29/11	--	--	--			20.9	0	0.1	
01/26/12	ND(3.9)	46	ND(3.2)			20.9	0	0.2	
02/21/12	--	--	--			20.6	0	0.8	
03/29/12	--	--	--			20.5	0	0.2	
04/26/12	ND(3.9)	45	ND(3.2)			20.9	0	0.3	
05/31/12	--	--	--			20.5	0	0	
06/28/12	--	--	--			20.9	0	0.2	
07/31/12	ND(3.9)	81.8	ND(3.2)			20.9	0	0.1	
08/31/12	--	--	--			20.9	0	0.7	
09/27/12	--	--	--			20.9	0	0.2	
10/30/12	ND(3.9)	47	ND(3.2)			20.9	0	0	
12/01/12	--	--	--			20.9	0	0.8	
12/28/12	--	--	--			20.9	0	0.1	
02/01/13	ND(3.9)	19	ND(3.2)			20.9	0	0.3	
02/28/13	--	--	--			20.5	0	0.1	
03/26/13	--	--	--			20.9	0	0.2	
04/26/13	ND(3.9)	39	ND(3.2)			19.9	0	0	
05/30/13	--	--	--			20.9	0	0.1	
06/27/13	--	--	--			20.3	0	0	
08/01/13	ND(3.9)	85.5	ND(3.2)			20.9	0	0	
08/30/13	--	--	--			20.9	0	0	
09/27/13	--	--	--			20.9	0	0	
10/29/13	ND(3.9)	90.6	ND(3.2)			20.5	0	0	
12/02/13	--	--	--			20.8	0	0	
12/28/13	--	--	--			20.9	0	0.4	
01/31/14	ND(3.9)	47	ND(3.2)			20.9	0	0	
02/26/14	--	--	--			20.9	0	0	
03/27/14	--	--	--			20.9	0	0	
04/30/14	ND(3.9)	60	ND(3.2)			20.9	0	0	
05/27/14	--	--	--			20.9	0	0	
06/26/14	--	--	--			20.9	0	0	
08/01/14	ND(3.9)	150	ND(3.2)			20.9	0	0	
08/28/14	--	--	--			20.9	0	0	
09/29/14	--	--	--			20.9	0	0	
10/29/14	ND(3.9)	83	ND(3.2)			20.9	0	0	
11/26/14	--	--	--			20.9	0	0	
12/31/14	--	--	--			20.9	0	0	
01/23/15	ND(3.9)	89.3	ND(3.2)			20.9	0	0	
02/27/15	--	--	--			20.9	0	0	
04/01/15	--	--	--			20.9	0	0	
04/30/15	ND(3.9)	57	ND(3.2)			20.9	0	0	
05/30/15	--	--	--			20.9	0	0	
	Continued								

Quarterly Monitoring Report										
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>						
Section 17 - SVE Well Field and Laboratory Analytical Results										
SVE Well: <u>SVE-3</u>		(Report in ug/m3)								
		LABORATORY ANALYSIS				FIELD ANALYSIS				
		Chloroform	Carbon	1,2-DCA				O2	CO2	TPH (PID)
			Tetrachloride					Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15				(%)	(%)	(ppm)
Date										
06/29/15		---	---	---				20.9	0	0
07/28/15		2.1	184	ND(3.2)				20.9	0	0
08/27/15		---	---	---				20.9	0	0
09/29/15		---	---	---				20.9	0	0
10/29/15		ND(3.9)	166	ND(3.2)				20.9	0	0
12/01/15		---	---	---				20.9	0	0.1
01/02/16		---	---	---				20.9	0	0
01/29/16		2.1	240	ND(3.2)				20.9	0	0
02/18/16		System deactivated for rebound								
09/29/16		---	---	---				20.9	0	0
10/28/16		1.4	145	ND(0.81)				20.9	0	0
11/29/16		---	---	---				20.9	0	0
12/29/16		---	---	---				20.9	0	0
01/30/17		ND(3.9)	144	ND(3.2)				20.9	0	0

Quarterly Monitoring Report									
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>					
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well: <u>SVE-4</u> (Report in ug/m3)									
	LABORATORY ANALYSIS						FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Method:	EPA TO-15	EPA TO-15	EPA TO-15						
Date									
05/29/09	1,800	29,000	ND(160)				--	--	--
06/23/09	51	400	ND(2.5)				19.5	0	0.4
07/30/09	12	130	ND(2.3)				20.9	0	0.7
08/28/09	8	84	ND(3.2)				19.4	0	0.2
09/23/09	--	--	--				20.9	0	0.8
10/28/09	--	--	--				20.6	0	31.3
11/27/09	7.3	110	ND(3.2)				20.9	0	0.6
12/23/09	--	--	--				20.9	0	3.6
01/28/10	--	--	--				20.9	0	0
02/25/10	6.8	59	ND(0.81)				20	0	0.7
03/23/10	--	--	--				20.9	0	0
04/29/10	--	--	--				20.9	0	0
05/27/10	3.6	35	ND(3.2)				20.4	0	0
06/22/10	--	--	--				20.1	0	0.2
07/28/10	--	--	--				20.5	0	0
08/27/10	3	17	ND(3.2)				20.9	0	0.4
09/28/10	--	--	--				20.9	0	0.4
10/28/10	--	--	--				20.9	0	0.9
11/19/10	90.3	34300	ND(3.2)				20.9	0	0
12/27/10	--	--	--				21.5	0	0.2
02/02/11	--	--	--				20.9	0	0
03/01/11	ND(3.9)	25	ND(3.2)				20.9	0	0
03/29/11	--	--	--				20.9	0	0.2
04/27/11	--	--	--				20.9	0	0
05/25/11	ND(3.9)	23	ND(3.2)				20.9	0	0
08/30/11	--	--	--				20.9	0	0
09/23/11	--	--	--				20.2	0	1.8
10/27/11	ND(3.9)	17	ND(3.2)				20.9	0	0.1
11/28/11	--	--	--				20.9	0	0.1
12/29/11	--	--	--				20.9	0	0.1
01/26/12	ND(3.9)	8.8	ND(3.2)				20.8	0	0.1
02/21/12	--	--	--				20.9	0	0.8
03/29/12	--	--	--				20.8	0	0
04/26/12	ND(3.9)	8.2	ND(3.2)				20.9	0	0.3
05/31/12	--	--	--				--	--	--
06/28/12	--	--	--				--	--	--
07/31/12	ND(3.9)	18	ND(3.2)				20.9	0	0
08/31/12	--	--	--				--	--	--
09/27/12	--	--	--				--	--	--
10/30/12	ND(3.9)	8.2	ND(3.2)				20.9	0	0
12/01/12	--	--	--				--	--	--
12/28/12	--	--	--				--	--	--
02/01/13	ND(3.9)	8.2	ND(3.2)				20.9	0	0.3
02/28/13	--	--	--				Off Cycling		
03/26/13	--	--	--				Off Cycling		
04/26/13	ND(3.9)	4.4	ND(3.2)				20.2	0	0.1
05/30/13	--	--	--				--	--	--
06/27/13	--	--	--				--	--	--
08/01/13	ND(3.9)	18	ND(3.2)				20.5	0	0
08/30/13	--	--	--				--	--	--
09/27/13	--	--	--				20.9	0	0
10/29/13	ND(3.9)	14	ND(3.2)				20.4	0	0
12/02/13	--	--	--				--	--	--
12/28/13	--	--	--				--	--	--
01/31/14	ND(3.9)	13	ND(3.2)				20.9	0	0
02/26/14	--	--	--				--	--	--
03/27/14	--	--	--				--	--	--
04/30/14	ND(3.9)	20	ND(3.2)				20.9	0	0
08/01/14	ND(3.9)	28	ND(3.2)				20.9	0	0
10/29/14	ND(3.9)	13	ND(3.2)				20.9	0	0
01/23/15	ND(3.9)	12	ND(3.2)				20.9	0	0
04/30/15	ND(3.9)	20	ND(3.2)				20.9	0	0
07/28/15	ND(3.9)	30	ND(3.2)				20.9	0	0
10/29/15	ND(3.9)	ND(5)	ND(3.2)				20.9	0	0
01/29/16	ND(3.9)	20	ND(3.2)				20.9	0	0
02/18/16	System deactivated for rebound								
10/28/16	ND(0.98)	19	ND(0.81)				20.9	0	0
01/30/17	ND(3.9)	16	ND(3.2)				20.9	0	0

Quarterly Monitoring Report										
Facility Name:		Former Agra CCC/USDA				Project #:		1491		
Section 17 - SVE Well Field and Laboratory Analytical Results										
SVE Well: SVE-5		(Report in ug/m3)								
		LABORATORY ANALYSIS				FIELD ANALYSIS				
		Chloroform	Carbon	1,2-DCA				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
			Tetrachloride							
Method:		EPA TO-15	EPA TO-15	EPA TO-15						
Date										
05/29/09		310	13,000	ND(64)				--	--	--
06/23/09		160	1,900	ND(2.4)				19.7	0	0.3
07/30/09		39	760	ND(2.4)				20.9	0	0.6
08/28/09		26	525	ND(3.2)				19.2	0	0.3
09/23/09		--	--	--				20.9	0	1.3
10/28/09		--	--	--				20.6	0	29
11/27/09		6.8	188	ND(3.2)				20.9	0	0.5
12/23/09		--	--	--				20.9	0	3.9
01/28/10		--	--	--				20.9	0	0
02/25/10		18	174	ND(0.81)				19.9	0	5.7
03/23/10		--	--	--				20.9	0	0
04/29/10		--	--	--				20.9	0	0
05/27/10		5.9	130	ND(3.2)				20.6	0	0
06/22/10		--	--	--				20.3	0	0.2
07/28/10		--	--	--				20.6	0	0.4
08/27/10		2.9	55	ND(3.2)				20.9	0	0.4
09/28/10		--	--	--				20.9	0	0.2
10/28/10		--	--	--				20.9	0	0.4
11/19/10		31	4940	ND(3.2)				20.9	0	0
12/27/10		--	--	--				21.5	0	0.2
02/02/11		--	--	--				20.9	0	0.1
03/01/11		ND(3.9)	129	ND(3.2)				20.9	0	0
03/29/11		--	--	--				20.9	0	0.2
04/27/11		--	--	--				20.9	0	0
05/25/11		3.2	125	ND(3.2)				20.5	0	0
08/30/11		--	--	--				20.9	0	0.1
09/26/11		--	--	--				20.4	0	1.3
10/27/11		ND(3.9)	18	ND(3.2)				20.9	0	0.1
11/28/11		--	--	--				20.9	0	0
12/29/11		--	--	--				20.8	0	0.3
01/26/12		ND(3.9)	18	ND(3.2)				20.8	0	0
02/21/12		--	--	--				20.9	0	0.7
03/29/12		--	--	--				20.9	0	0.1
04/26/12		2.4	36	ND(3.2)				20.9	0	0.4
05/31/12		--	--	--				OFF	OFF	OFF
06/28/12		--	--	--				OFF	OFF	OFF
07/31/12		ND(3.9)	40	ND(3.2)				20.9	0	0
08/31/12		--	--	--				--	--	--
09/27/12		--	--	--				--	--	--
10/30/12		ND(3.9)	23	ND(3.2)				20.9	0	0
12/01/12		--	--	--				NA		
12/28/12		--	--	--				NA		
02/01/13		ND(3.9)	18	ND(3.2)				20.9	0	0.2
02/28/13		--	--	--				Off Cycling		
03/26/13		--	--	--				Off Cycling		
04/26/13		ND(3.9)	4.6	ND(3.2)				20	0	0
05/30/13		--	--	--				--	--	--
06/27/13		--	--	--				--	--	--
08/01/13		ND(3.9)	49	ND(3.2)				20.8	0	0
08/30/13		--	--	--				--	--	--
09/27/13		--	--	--				20.9	0	0
10/25/13		ND(3.9)	45	ND(3.2)				20.5	0	0
12/02/13		--	--	--				--	--	--
12/28/13		--	--	--				--	--	--
01/31/14		ND(3.9)	162	ND(3.2)				20.9	0	0
02/26/14		--	--	--				--	--	--
03/27/14		--	--	--				--	--	--
04/30/14		ND(3.9)	64.8	ND(3.2)				20.9	0	0
08/01/14		ND(3.9)	96.2	ND(3.2)				20.9	0	0
10/29/14		ND(3.9)	45	ND(3.2)				20.9	0	0
01/23/15		ND(3.9)	47	ND(3.2)				20.9	0	0
04/30/15		ND(3.9)	77.4	ND(3.2)				20.9	0	0
07/28/15		ND(3.9)	117	ND(3.2)				20.9	0	0
10/29/15		ND(3.9)	91.2	ND(3.2)				20.9	0	0
01/29/16		ND(3.9)	128	ND(3.2)				20.9	0	0
02/18/16		System deactivated for rebound								
10/28/16		1	250	ND(0.81)				20.9	0	0
01/30/17		2	370	ND(3.2)				20.9	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-1

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	5.5	4.95	5
06/23/09	5.89	5.29	3.5
07/29/09	6.11	5.25	6
08/28/09	5.86	4.13	6
09/23/09	5.91	5.04	6.9
10/28/09	5.47	4.03	9
11/27/09	5.96	5.76	3.6
12/23/09	4.97	4.29	4
01/28/10	4.77	4.56	5
02/25/10	4.95	4.72	4.9
03/23/10	4.84	4.46	4.8
04/29/10	5.47	5.31	3
05/27/10	5.69	5.14	4.2
06/22/10	6.18	5.54	5
07/28/10	1.06	0.57	4.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	0.92	0.32	5.9
11/19/10	Possible broken line. Well Line deactivated.		
12/27/10	OFF		
02/02/11	5.4	4.89	3
03/01/11	5.34	NA	3
03/29/11	4.61	NA	4
04/27/11	5.47	5.01	3.3
05/25/11	5.65	NA	3.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	5.75	5.49	4
11/28/11	5.68	5.11	4
12/29/11	5.32	5.31	4
01/26/12	5.54	5.3	3
02/21/12	5.68	5.19	2.8
03/29/12	5.86	5.41	3
04/28/12	5.62	5.18	2.5
05/31/12	5.44	5.18	2
06/28/12	5.34	5.17	4
07/31/12	5.28	5.04	4
08/31/12	5.44	4.85	6
09/27/12	5.33	4.9	5
10/30/12	5.32	4.98	4
12/01/12	Needs Vanes & Filters		
02/01/13	5.14	4.86	3
02/28/13	4.73	4.36	5
03/26/13	4.59	4.4	4
04/26/13	4.91	4.79	3
05/30/13	4.91	4.55	3.5
06/27/13	4.91	4.51	4
08/01/13	4.69	4.4	3.5
08/30/13	4.67	4.24	4
09/27/13	4.54	4.26	3.8
10/29/13	4.74	4.47	3.5
12/02/13	4.4	3.96	6
12/28/13	4.73	4.55	3.5
01/31/14	4.27	4.06	3.5
02/26/14	4.16	3.82	5
03/27/14	4.38	3.94	5
04/30/14	4.31	3.9	5.3
05/27/14	4.63	3.96	5.2
06/26/14	4.52	3.93	4.9
08/01/14	4.27	3.9	5
08/28/14	4.42	3.89	5.5
09/29/14	4.36	3.8	6
10/29/14	4.37	3.69	6.7
11/26/14	4.42	3.63	7
12/31/14	4.26	3.34	6.8
01/23/15	4.17	3.57	6.6
02/27/15	4.34	3.49	7.9
04/01/15	4.27	3.7	6.5
04/30/15	4.2	3.62	6.2
05/30/15	4.33	3.63	6.3
06/29/15	3.92	3.36	6.1
07/28/15	4.19	3.39	6
	Continued		

Possible broken line, pad hit by tractor & moved. Took readings & turned off

Wellhead Pad Under construction

Wellhead Pad Under construction

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-1

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	4.32	3.42	7.7
09/29/15	4	3.27	7
10/29/15	3.95	3.29	6.7
12/01/15	3.78	3.35	5.7
01/02/16	3.62	3.54	4
01/29/16	3.56	3.4	4
02/18/16	System deactivated for rebound		
09/29/16	5.16	5.1	4
10/28/16	4.81	4.7	4
11/29/16	4.83	4.44	4
12/29/16	4.74	4.37	4.2
01/30/17	4.88	4.5	4

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-2

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.5	5
06/23/09	8.84	8.31	4
07/29/09	8.27	8.21	1.5
08/28/09	8.33	8.08	2
09/23/09	8.2	8.1	1.1
10/28/09	8.2	7.96	0.5
11/27/09	8.74	8.61	3.5
12/23/09	8.48	8.06	4
01/28/10	8.33	8.06	3.7
02/25/10	8.41	8.22	3
03/23/10	8.47	8.37	2
04/29/10	8.61	8.35	3
05/27/10	8.88	8.48	3.7
06/22/10	8.74	8.53	2.4
07/28/10	8.9	8.45	2.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.42	8.27	3.7
11/19/10	8.92	8.61	4
12/27/10	9.13	8.65	5
02/02/11	8.76	8.41	3.7
03/01/11	2	0.54	3
03/29/11	0.44	0.11	4
04/27/11	Deactivated due to no PSI at Manifold through 10-6-11		
11/28/11	9.03	9	4
12/29/11	9.03	9	4
01/26/12	8.68	8.67	3
02/21/12	8.97	8.63	2.8
03/29/12	9.16	8.66	3
04/26/12	8.95	8.65	3
05/31/12	8.59	8.36	2
06/28/12	8.72	8.14	5
07/31/12	8.36	8.18	5
08/31/12	8.81	8.28	6
09/27/12	8.49	8.13	5
10/30/12	8.25	8.02	4
12/01/12	Needs Vanes & Filters		
02/01/13	8.43	8.11	3.7
02/28/13	7.98	7.59	5
03/26/13	7.68	7.3	4
04/26/13	7.96	7.82	3
05/30/13	7.86	7.47	2.5
06/27/13	8.37	7.92	4
08/01/13	7.59	7.32	4
08/31/13	7.76	7.3	4
09/27/13	7.82	7.55	4
10/29/13	7.85	7.59	3.7
12/02/13	7.8	7.38	6
12/28/13	7.87	7.79	3.5
01/31/14	7.68	7.42	3.5
02/26/14	7.67	7.29	5
03/27/14	7.87	7.45	5
04/30/14	7.89	7.38	2
05/27/14	8.05	7.43	5.2
06/26/14	7.98	7.37	5.1
08/01/14	7.93	7.27	5
08/28/14	8.61	7.38	8.5
09/29/14	8.34	7.29	8
10/29/14	8.04	7.17	7.7
11/26/14	7.78	7.09	7
12/31/14	7.37	6.76	5.5
01/23/15	7.26	6.9	5
02/27/15	7.56	6.79	7
04/01/15	7.64	7.07	6.5
04/30/15	7.52	6.98	6.2
05/30/15	7.7	7.01	6
06/29/15	7.49	6.96	5.8
07/28/15	7.46	6.96	6
	Continued		

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-2

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	7.46	6.98	5
09/29/15	7.14	6.79	4.8
10/29/15	7.11	6.73	4.7
12/01/15	7.33	6.9	5
01/02/16	6.46	4.27	4
01/29/16	7.38	6.8	4
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	4
10/28/16	10+	9.72	4
11/29/16	9.98	9.55	4
12/29/16	9.97	9.41	4.2
01/30/17	10+	9.64	4

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: **AS-3**

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.21	5
06/23/09	7.75	6.98	4
07/29/09	8.87	8.08	5
08/28/09	8.5	8.13	7
09/23/09	8.3	7.8	5
10/28/09	8.16	7.89	3.2
11/27/09	8.86	8.8	2.2
12/23/09	7.41	7.33	4
01/28/10	7.19	6.66	4.7
02/25/10	7.15	6.78	4.8
03/25/10	6.9	6.6	5
04/29/10	7.4	7.22	3
05/27/10	7.78	7.51	4.9
06/22/10	8.71	8.27	4
07/28/10	8.96	8.27	4
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.35	7.67	5
11/19/10	8.82	8.05	6.8
12/27/10	9.19	8.74	3.5
02/02/11	8.68	8.39	2
03/01/11	8	7.64	3
03/29/11	7.75	7.46	4
04/27/11	8.22	8.09	3
05/25/11	10+	NA	2.8
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8	7.73	5
11/28/11	8.32	8.04	4
12/29/11	10.55	10.21	4
01/26/12	12.46	12.42	3
02/21/12	10+	10+	1.3
03/29/12	11.74	10.74	1.5
04/28/12	11.13	11	3
05/31/12	13.98	13.8	3
06/28/12	15.72	15.07	6
07/31/12	10+	10+	2
08/31/12	7.71	7.65	1
09/27/12	10+	10+	1.5
10/30/12	10+	10+	2
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	3.2
02/28/13	10+	10+	4
03/26/13	10+	10+	2
04/26/13	10+	10+	0.5
05/30/13	10+	10+	1.5
06/27/13	10+	10+	0
08/01/13	10+	10+	<0.5
08/31/13	10+	10+	1
09/27/13	10+	10+	0.5
10/29/13	10+	10+	0.5
12/02/13	10+	10+	0
12/28/13	10+	10+	0.5
01/31/14	6.39	5.32	1
02/26/14	10+	10+	7
03/27/14	10+	10+	3
04/30/14	15.77	15.66	2
05/27/14	16.11	15.87	1.5
06/26/14	14.32	14.23	1.7
08/01/14	10+	10+	1.7
08/28/14	10+	10+	2
09/29/14	10+	10+	2
10/29/14	10+	10+	1.7
11/26/14	10+	10+	2
12/31/14	10+	10+	1.8
01/23/15	10+	10+	1.8
02/27/15	10+	10+	2
04/01/15	10+	10+	1.8
04/30/15	10+	10+	2
05/30/15	10+	10+	2
06/29/15	10+	10+	2
07/28/15	10+	10+	2.2
	Continued		

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report			
Facility Name: <u>Former Agra CCC/USDA</u>	Project #: <u>1491</u>		
Section 18 - Air Sparge (A/S) Wells / System Operation			
A/S Well: <u>AS-3</u>			
	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	10+	10+	3
09/29/15	10+	10+	3.3
10/29/15	10+	10+	3.2
12/01/15	12.9	3.22	3
01/02/16	10+	10+	3.2
01/29/16	10+	10+	3.3
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	3.5
10/28/16	10+	10+	3.5
11/29/16	10+	10+	4.2
12/29/16	10+	10+	3.2
01/30/17	10+	10+	3.7

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-4

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	9	8.56	5
06/23/09	8.41	8.16	3.7
07/29/09	8.17	8.03	1.5
08/28/09	8.38	8.14	3
09/23/09	8.05	7.95	1.5
10/28/09	8.2	7.97	1
11/27/09	8.65	8.48	3.6
12/23/09	8.29	8.16	4
01/28/10	8.32	7.81	5
02/25/10	8.37	8.01	4.5
03/23/10	8.43	8.11	4.5
04/29/10	8.48	8.25	3
05/27/10	8.34	8.25	1.8
06/22/10	8.44	8.14	3
07/28/10	8.62	7.93	2.2
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.46	8.26	3.6
11/19/10	8.9	8.52	4.6
12/27/10	8.5	8.4	4
02/02/11	8.49	8.36	2
03/01/11	8.68	8.52	3
03/29/11	10+	7.89	1
04/27/11	8.58	8.28	2
05/25/11	8.71	NA	2.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8.72	8.45	4
11/28/11	8.84	8.55	4
12/29/11	8.61	8.36	4
01/26/12	8.96	8.81	3
02/21/12	10+	8.28	2.8
03/29/12	8.89	8.09	3
04/26/12	8.65	8.19	3
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/30/12	8.25	7.76	5
08/31/12	--	--	--
09/27/12	8.54	7.76	6
10/30/12	8.88	8.1	7.75
12/01/12	Needs Vanes & Filters		
02/01/13	10+	8.16	8.5
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	7.91	7.86	2.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	8.75	7.18	7
08/31/13	--	--	--
09/27/13	7.51	7.35	3.5
10/29/13	7.71	7.47	3.7
12/02/13	--	--	--
12/28/13	--	--	--
01/31/14	7.61	--	4.5
04/30/14	8.39	7.23	9
08/01/14	7.95	7.03	Broken
10/29/14	8.15	6.88	10.1
01/23/14	7.63	6.72	8.8
04/30/15	7.91	6.72	9.9
07/28/15	7.51	6.52	8.9
10/29/15	7.81	6.44	11
01/29/16	7.9	6.6	11.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.36	11
01/30/17	Flowmeter broken		

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-5

Parameter:	Manifold	Wellhead	
Units:	Well Pressure	Well Pressure	Flow Rate
	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.9	5
06/23/09	8.93	8.42	3
07/29/09	8.92	8.7	3.2
08/28/09	8.65	8.5	2
09/23/09	8.45	8.39	0
10/28/09	8.28	8.22	0
11/27/09	8.95	8.85	0
12/23/09	10+	8.29	1.5
01/28/10	8.47	8.44	0
02/25/10	8.51	8.5	0
03/23/10	8.59	8.57	0
04/29/10	9.96	9.64	3
05/27/10	8.96	8.8	0
06/22/10	8.84	8.79	0
07/28/10	10+	8.84	0
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.55	8.43	0
11/19/10	10	8.88	0
12/27/10	9.3	8.97	3
02/02/11	10+	9.02	3.3
03/01/11	8.98	8.14	2.5
03/29/11	10+	8.96	4
04/27/11	10+	8.8	3.5
05/25/11	10+	NA	4.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	11.61	11.3	3
11/28/11	10+	10+	0
12/29/11	11.1	11.1	0
01/26/12	12.52	12.5	0.5
02/21/12	10+	10+	0.5
03/29/12	11.77	11.32	0.5
04/28/12	11.63	11.62	1
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/31/12	10+	10+	7
08/31/12	--	--	--
09/27/12	10+	10+	5
10/30/12	10+	10+	2.5
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	2
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	10+	10+	0.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	10+	10+	*--
08/31/13	--	--	--
09/27/13	10+	10+	*--
10/29/13	10+	10+	0.5
12/02/13	--	--	--
01/31/14	10+	--	--
02/26/14	8.27	7.7	6.25
04/30/14	8.99	7.55	10
08/01/14	8.24	7.31	8
10/29/14	8.51	7.25	9.4
01/23/15	7.85	6.99	8
04/30/15	8.25	7.06	9.3
07/28/15	7.96	6.86	8.2
10/29/15	8.49	6.92	10.5
01/29/16	8.55	7.04	10.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.94	10.2
01/30/17	10+	10+	10

Unable to collect wellhead pressure reading due to standing water over wellhead

* Flowmeter broken

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA			Project #: 1491				
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
Parameter:	System		Bleed-Off	Pre	Post	Operation Time	
Units:	Pressure	Flow Rate	Valve	Air Temp.	Air Temp.	Continuous	Cycling
Date	(psi)	(scfm)	(%) Open	(Deg. F)	(Deg. F)	(Hours)	(Hours)
05/29/09	8	20	Closed	--	--		
06/23/09	10.8	18.2	Closed	148	--		591.7
07/29/09	11.4	17.2	Closed	129	--		1111.1
08/28/09	11	20	Closed	--	--		1112.1
09/23/09	11.3	14.5	Closed	128	--		1112.1
10/28/09	11.4	13.7	Closed	113	--		1112.2
11/27/09	12	12.9	Closed	119	--		1112.2
12/23/09	14	17.5	Closed	113	--		1112.2
01/28/10	21.7	18.4	Closed	91	--		175.7
02/25/10	12	17.2	Closed	101	--		507.5
03/23/10	11.6	16.3	Closed	116	--		813
04/29/10	12.7	15	Closed	134	--		1261.1
05/27/10	11.4	14.6	Closed	139	--		1938.6
06/22/10	11.4	14.4	Closed	135	--		2556.5
07/28/10	11.1	13.8	Closed	147	--		3421.3
08/27/10	Blower faulty. System deactivated.						3954.2
10/28/10	10.8	18.2	Closed	124	--		4478.4
11/19/10	10.4	15.4	Closed	119	--		5010.7
12/27/10	11	15.5	Closed	110	--		5921.1
02/02/11	10.8	14	Closed	109	--		6808.4
03/01/11	10	16.5	Closed	120	--		7456.5
03/29/11	11.1	17	Closed	111	--		7770.2
04/27/11	11.1	15.8	Closed	122	--		8467.3
05/25/11	11.9	13.3	Closed	124	--		9138.8
08/30/11	OFF						
09/26/11	OFF						
10/27/11	13	16	Closed	126	--		9644.7
11/28/11	13.5	16	Closed	120	--		10407.5
12/29/11	11	16	Closed	120	--		11155.5
01/26/12	14	12.5	Closed	104	--		11824.4
02/21/12	14	10.2	Closed	111	--		12448.6
03/29/12	13	11	Closed	120	--		13336.4
04/26/12	13	12.5	Closed	127	--		14000.7
05/31/12	16	7	Closed	110	--		14642.9
06/28/12	18	15	Closed	150	--		15313.4
07/31/12	16	16	Closed	140	--		16105.7
08/31/12	19.9	13	Closed	139	--		16849.7
09/27/12	20	11.5	Closed	118	--		17498.6
10/30/12	20	10	Closed	110	--		18288.7
12/01/12	Needs Vanes & Filters						
02/01/13	13.5	20.4	Closed	107	--		18671.6
02/28/13	20	14	Closed	106	--		19317.5
03/26/13	21	10	Closed	100	--		19939.9
04/26/13	21	6	Closed	112	--		20687.2
05/30/13	21.5	7.5	Closed	120	--		21499.8
06/27/13	19	8	Closed	130	--		22171.8
08/01/13	19	8	Closed	106	--		23014.5
08/31/13	20	9	Closed	--	--		23706.2
09/27/13	21	7.8	Closed	122	--		24378.7
10/29/13	18.5	11.9	Closed	104	--		25148
12/02/13	15	12	Closed	110	--		25963.7
12/28/13	18.5	7.5	Closed	100	--		26587.8
01/31/14	19	17	Closed	79	--		27405.9
02/26/14	17	17	Closed	82	--		28027.3
03/27/14	17.9	13	Closed	84	--		28723.8
04/30/14	18.2	13.1	Closed	108	--		29538.2
05/27/14	18.5	11.9	Closed	133	--		30187.8
06/26/14	17	11.7	Closed	181	--		30896.1
08/01/14	16.1	11.7	Closed	131	--		31765.9
08/28/14	16.7	16	Closed	133	--		32412.5
09/29/14	16	16	Closed	129	--		33178.4
10/29/14	16.2	16.1	Closed	99	--		33899.2
11/26/14	14.4	16	Closed	85	--		34569.1
12/31/14	14.3	14.1	Closed	94	--		35412.3
01/23/15	13.5	13.4	Closed	102	--		35964.8
02/27/15	16.5	16.9	Closed	91	--		36798.5
04/01/15	15.5	14.8	Closed	116	--		37589.3
04/30/15	15.2	14.4	Closed	111	--		38288.9
05/30/15	15.5	14.3	Closed	112	--		39005.6
06/29/15	14.3	13.9	Closed	115	--		39725
07/28/15	14.2	14.2	Closed	123	--		40425.1
		Continued					

12/22/09 ASP set to run 4hours on 4 hours off.

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA				Project #: 1491			
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
Parameter:		System	Bleed-Off	Pre	Post	Operation Time	
		Pressure	Flow Rate	Valve	Air Temp.	Continuous	Cycling
Units:		(psi)	(scfm)	(%) Open	(Deg. F)	(Hours)	(Hours)
Date							
08/27/15		18	15.7	Closed	129	--	41141.3
09/29/15		17	15.1	Closed	119	--	41933.8
10/29/15		17	14.6	Closed	111	--	42656.4
12/01/15		15	13.7	Closed	91	--	43448.8
01/02/16		16.5	11.2	Closed	96	--	44214.4
01/29/16		15.5	11.3	Closed	99	--	44863.9
02/18/16		System deactivated for rebound					
09/29/16		17	11.5	Closed	105	--	45554.9
10/28/16		16.2	11.5	Closed	116	--	46251.8
11/29/16		19.8	12.2	Closed	124	--	47017.9
12/29/16		20	11.6	Closed	127	--	47738.5
01/30/17		18	11.7	Closed	101	--	48507.2

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings

Date	05/29/09	06/23/09	07/29/09	08/28/09	09/23/09	10/28/09	11/27/09	12/23/09	01/28/10	02/25/10	03/23/10	04/29/10
Well # / Unit #												
SV-1 Manifold Vacuum ("H2O)	34.6	34	30.2	29	27	25.7	26.3	18.2	27	30.7	29.5	32.3
SV-1 Wellhead Vacuum ("H2O)	34.6	31.6	28.2	26	24.6	22.9	24	16	24.3	23.2	28.4	30.6
SV-1 Direct Read Flow Rate (CFM)	<40	66	36	30	60	40	35	38	56	39	47	51
SV-2 Manifold Vacuum ("H2O)	32.8	34.6	31.8	30.7	29.2	29.1	29.6	26.1	30.1	34.9	31.3	31.1
SV-2 Wellhead Vacuum ("H2O)	31.1	32.9	29.3	27.5	26.7	25.4	27.9	22.5	29.8	31.8	28.9	29.4
SV-2 Direct Read Flow Rate (CFM)	<40	59	37	40	62	23	78	30	21	45	58	71
SV-3 Manifold Vacuum ("H2O)	31.5	31.6	28.2	26.6	26.1	26.9	28.3	24.4	29.5	34.2	25.7	28.9
SV-3 Wellhead Vacuum ("H2O)	29.7	38.9	24.7	23.8	23.1	24	26	19	27.9	26.6	23.4	25.9
SV-3 Direct Read Flow Rate (CFM)	<40	77	45	40	61	27	89	38	19	36	42	35
SV-4 Manifold Vacuum ("H2O)	29.2	29.1	26.9	26.6	24.6	24.9	25.5	22.2	26.8	31.9	24.2	19.7
SV-4 Wellhead Vacuum ("H2O)	28.2	25.6	23.1	21.6	21.4	21.5	22.7	18.3	21.8	27.8	20.2	17.3
SV-4 Direct Read Flow Rate (CFM)	50	47	48	50	45	42	43	45	44	47	42	35
SV-5 Manifold Vacuum ("H2O)	34.8	33.5	29.4	28.7	26.1	26	25.8	19.2	28.9	33.6	27	20.8
SV-5 Wellhead Vacuum ("H2O)	34.4	31.3	26.9	25.1	23.4	23.4	22.7	17.5	26.5	30.6	22.4	19.7
SV-5 Direct Read Flow Rate (CFM)	<40	63	33	30	40	44	42	41	14	31	40	35
Pre KO Tank Vacuum ("H2O)	46	42.9	40.5	39.4	38.9	38.4	38.9	36	39.8	45	40.1	41.4
Before Filter ("H2O)	46	48	45	44	43	43	42	39	43	48	43	45
After Filter ("H2O)	54	56	53	50	52	51	50	48	53	56	52	55
Dilution Valve (% Open)	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
Cumulative Direct Read Flow Rate (scfm)	210	312	199	190	268	176	287	192	154	198	229	227
K.O. Tank -Gallons Drained Meter Reading	0	0	0	0	0	0	Drained	Drained	Drained	Drained	Drained	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Facility Name: Former Agra CCC/USDA

Project #: 1491

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Facility Name: Former Agra CCC/USDA

Project #: 1491

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings

Well # / Unit #	Date	07/28/15	08/27/15	09/29/15	10/29/15	12/01/15	01/02/16	01/29/16	04/29/16	09/29/16	10/28/16	11/29/16	12/29/16
SV-1 Manifold Vacuum ("H2O)		9.6	8.5	8.1	7.5	7.8	10.3	9.7		12.8	11.6	11.8	12.3
SV-1 Wellhead Vacuum ("H2O)		5.6	4.5	4.1	3.3	3.2	5.3	7.1		6	5.4	4.9	4.6
SV-1 Direct Read Flow Rate (CFM)		50	50	50	50	55	50	40		55	55	55	55
SV-2 Manifold Vacuum ("H2O)		9.6	8.6	8	7.4	8.3	8.5	11.2		12.3	11.3	11.8	12.3
SV-2 Wellhead Vacuum ("H2O)		5.7	4.7	4	3.4	3.5	4.3	6.8		5.8	5.1	3.8	5.4
SV-2 Direct Read Flow Rate (CFM)		50	50	50	50	50	50	50		55	55	55	55
SV-3 Manifold Vacuum ("H2O)		20.2	11.9	11.2	11.1	12.1	10.1	12.8		24	21.8	21.4	21.1
SV-3 Wellhead Vacuum ("H2O)		11.9	7.3	6.2	5.9	5.9	5.9	8.7		13.9	12.3	10.8	11
SV-3 Direct Read Flow Rate (CFM)		73	50	53	54	55	50	50		65	65	65	55
SV-4 Manifold Vacuum ("H2O)		28.8	--	--	15.2	--	--	10.5		--	18.3	--	--
SV-4 Wellhead Vacuum ("H2O)		16.1	--	--	8.5	--	--	6.3		--	9.6	--	--
SV-4 Direct Read Flow Rate (CFM)		89	--	--	70	--	--	55		--	60	--	--
SV-5 Manifold Vacuum ("H2O)		26.7	--	--	14.9	--	--	11.2		--	21.1	--	--
SV-5 Wellhead Vacuum ("H2O)		13	--	--	6.6	--	--	5.9		--	10.3	--	--
SV-5 Direct Read Flow Rate (CFM)		94	--	--	70	--	--	55		--	65	--	--
Pre KO Tank Vacuum ("H2O)		47.4	31.4	30.7	31	32.7	32.6	38.3		66.4	64.6	65	76.7
Before Filter ("H2O)		58	41	42	41	43	46	49		--	--	--	--
After Filter ("H2O)		64	47	49	49	52	54	56		74	66	--	89.7
Dilution Valve (% Open)		Closed	Closed	Closed	Closed	Closed	Closed	Closed		Closed	Closed	Closed	Closed
Cumulative Direct Read Flow Rate (scfm)		173	150	153	154	160	150	140		175	175	175	165
K.O. Tank -Gallons Drained Meter Reading		0	0	0	0	0	0	0		0	0	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 20 - Operation & Maintenance Cost vs. Time

Date	1/16	4/16	7/16	10/16	1/17
Period Cost	\$5,055.00	\$1,447.50	\$1,472.50	\$4,205.00	\$5,055.00
Cumulative Cost	\$112,746.00	\$114,193.50	\$115,666.00	\$119,871.00	\$124,926.00
Date					
Period Cost					
Cumulative Cost					

OM&M Costs

Quarterly Monitoring ReportFacility Name: Former Agra CCC/USDAProject #: 1491

Section 21 - Permits

Permit	Permit #	Original Application Date	Renewal Date
Class V Injection Well (BOW)		Granted 5/22/2009	
Flushmount Waiver		Granted 5/29/2009	
Landfarm		Granted 10/16/2008	
Notification of Soil Vapor Extraction		Recognition Letter Received 1/21/2009	

Quarterly Monitoring Report		
Facility Name: Former Agra CCC/USDA		
Project #: 1491		
Section 22 - System Operation Time (hours)		
Date	SVE #1	A/S #1
	Start-up	Tested ASP
05/29/09	NR	NR
06/23/09	600.6	591.7
07/29/09	1445.6	1111.1
08/28/09	2121.5	1112.1
*9/23/2009	2211.2	1112.1
*10/28/2009	2221.1	1112.2
*11/27/2009	2221.1	1112.2
12/23/09	2221.2	1112.2
01/28/10	357.4	175.7
02/25/10	1030	507
03/23/10	1652.6	813
04/29/10	2539.1	1261.1
05/27/10	3216.6	1938.6
06/22/10	3834.5	2556.5
07/28/10	4699.3	3421.3
08/27/10	5420.7	3954.2
09/28/10	6189.1	3954.2
10/28/10	6905.8	4478.4
11/19/10	7438.3	5010.7
12/27/10	8348.7	5921.1
02/02/11	9236	6808.4
03/01/11	9884.1	7456.5
03/29/11	10552.7	7770.2
04/27/11	11249.8	8467.3
05/25/11	11921.6	9138.8
08/30/11	14246.5	9138.9
09/26/11	14894.1	9138.9
10/27/11	15638.1	9644.7
11/28/11	16405.5	10407.5
	Continued	
Total Oper. Hrs. for Rept. Period	---	---
Potential Oper. Hrs for Quarter	---	---

*Bad Hour meter SVE and ASP

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 22 - System Operation Time (hours)

Date	SVE #1	A/S #1
	Start-up	Tested ASP
12/29/11	17153.5	11155.5
01/26/12	17822.8	11824.4
02/21/12	18446.9	12448.6
03/29/12	19334.7	13336.4
04/26/12	20005.5	14000.7
05/31/12	20820.2	14642.9
06/28/12	21490.7	15313.4
07/31/12	22283.2	16105.7
08/31/12	23027.2	16849.7
09/27/12	23676.1	17498.6
10/30/12	24466.2	18288.7
12/01/12	25235.3	18288.9
12/28/12	25881.9	18288.9
02/01/13	26724.4	18671.6
02/28/13	27370.3	19317.5
03/26/13	27992.7	19939.9
04/26/13	28740.4	20687.2
05/30/13	29553.1	21499.8
06/27/13	30225	22171.8
08/01/13	31067.8	23014.5
08/30/13	31759.5	23706.2
09/27/13	32431.9	24378.7
10/29/13	33201.2	25148
12/02/13	34016.9	25963.7
12/28/13	34641	26587.8
01/31/14	35459.1	27405.9
02/26/14	36080.5	28027.3
03/27/14	36777	28723.8
04/30/14	37591.4	29538.2
05/27/14	38241	30187.8
06/26/14	38949.2	30896.1
08/01/14	39819	31765.9
08/28/14	40465.6	32412.5
09/29/14	41231.5	33178.4
10/29/14	41952.3	33899.2
11/26/14	42622.2	34569.1
12/31/14	43465.4	35412.3
01/23/15	44017.9	35964.8
	Continued	
Total Oper. Hrs. for Rept. Period	0	0
Potential Oper. Hrs for Quarter	0	0

*Bad Hour meter SVE and ASP

Quarterly Monitoring Report		
Facility Name: <u>Former Agra CCC/USDA</u>		
Project #: <u>1491</u>		
Section 22 - System Operation Time (hours)		
Date	SVE #1	A/S #1
2/27/2015	44851.5	36798.5
04/01/15	45642.3	37589.3
04/30/15	46342	38288.9
05/30/15	47058.7	39005.6
06/29/15	47778	39725
07/28/15	48478.1	40425.1
08/27/15	49194.4	41141.3
09/29/15	49986.8	41933.8
10/29/15	50709.4	42656.4
12/01/15	51501.7	43448.8
01/02/16	52267.4	44214.4
01/29/16	52916.9	44863.9
02/18/16	System deactivated for rebound	
04/29/16	NR	NR
09/29/16	53607.9	45554.9
10/28/16	54304.9	46251.8
11/29/16	55071	47017.9
12/29/16	55791.6	47738.5
01/30/17	56560.3	48507.2
Total Oper. Hrs. for Rept. Period	2255.4	2255.4
Potential Oper. Hrs for Quarter	2256	2256

*Bad Hour meter SVE and ASP

SB43

SB69

⊕GW4

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4
SVE-4/AS-4

LDB5
SVE-5/AS-5

SVE-3/AS-3
LDB3

⊕GW2

GW3⊕

GW1⊕

LDB2
SVE-2/AS-2

LDB1
SVE-1/AS-1

MW-P⊕

●SB49

⊕GW5

MW-J⊕

- ⊕ MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊕ LDB LOCATION

0 20' 40'

SCALE: 1" = 20'

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SALINA, KANSAS

FIGURE 1:
SITE BASE MAP

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

242

⊕ GW4

● SB45

● SB46

● SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

⊕ LDB5
SVE-5/AS-5

⊕ LDB4
SVE-4/AS-4

SVE-3/AS-3
⊕ LDB3

⊕ GW2

⊕ GW3

1240

ND 10 100 1000

⊕ GW1

57.2

⊕ LDB2
SVE-2/AS-2

⊕ LDB1
SVE-1/AS-1

MW-P ⊕

● SB49

⊕ GW5

MW-J ⊕

- ⊕ MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊕ LDB LOCATION
- 123.4 CARBON TETRACHLORIDE (ppb)

0 20' 40'

SCALE: 1" = 20'

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SALINA, KANSAS

FIGURE 2
CARBON TETRACHLORIDE IN GROUNDWATER
SAMPLED: 01/30/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

⊕GW4 3.7

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4 ⊕
SVE-4/AS-4

LDB5 ⊕
SVE-5/AS-5

SVE-3/AS-3
LDB3 ⊕

⊕GW2

GW3 ⊕
ND

5.4 ⊕GW1

LDB2 ⊕
SVE-2/AS-2

LDB1 ⊕
SVE-1/AS-1

MW-P ⊕

●SB49

⊕GW5

MW-J ⊕

⊕ MONITORING WELL
● 2005 INVESTIGATION LOCATION
⊕ CCC/USDA MONITORING WELL
⊕ LDB LOCATION
123.4 CHLOROFORM (ppb)

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

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(785) 826-1616

SALINA, KANSAS

FIGURE 3:
CHLOROFORM IN GROUNDWATER
SAMPLED: 01/30/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#:C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

ND
⊕GW4

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4
SVE-4/AS-4LDB5
SVE-5/AS-5SVE-3/AS-3
LDB3

⊕GW2

GW3⊕

ND
⊕GW1LDB2
SVE-2/AS-2LDB1
SVE-1/AS-1

MW-P⊕

●SB49

⊕GW5

MW-J⊕

⊕ MONITORING WELL
● 2005 INVESTIGATION LOCATION
⊕ CCC/USDA MONITORING WELL
⊕ LDB LOCATION
123.4 1,2 DCA (ppb)

0 20' 40'
SCALE: 1" = 20'

GEOCORE INC.

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(785) 826-1616

SALINA, KANSAS

FIGURE 4
1,2 DCA IN GROUNDWATER
SAMPLED: 01/30/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

APPENDIX 1

LABORATORY INFORMATION

Technical Report for

GeoCore, Inc.-Remediation

AGRA CCC/USDA, Agra, KS

1491

SGS Accutest Job Number: FA40898

Sampling Date: 01/30/17

Report to:

GeoCore, Inc.
2775 Arnold Ave Suite D
Salina, KS 67401
jlaird@geocore.net; dcorl@geocore.net

ATTN: Dave Corl

Total number of pages in report: 19

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Client Service contact: Sue Bell 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(E1002), NY(12022), SC(96038001)
DoD ELAP(L-A-B 12229), AZ(AZ0806), CA(2937), TX(T10470404), PA(68-03573), VA(460177),
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Test results relate only to samples analyzed.

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1 of 19
ACCUTEST
FA40898

SGS

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2 of 19
ACCUTEST
FA40898

SGS

Sample Summary

GeoCore, Inc.-Remediation
AGRA CCC/USDA, Agra, KS
Project No: 1491

Job No: FA40898

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
FA40898-1	01/30/17	13:20	TD	02/02/17 AQ	Ground Water GW-1
FA40898-2	01/30/17	14:00	TD	02/02/17 AQ	Ground Water GW-3
FA40898-3	01/30/17	13:40	TD	02/02/17 AQ	Ground Water GW-4

Summary of Hits

Job Number: FA40898
Account: GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS
Collected: 01/30/17

Lab Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
FA40898-1	GW-1					
Carbon Tetrachloride ^a		57.2	1.0		ug/l	SW846 8260B
Chloroform ^a		5.4	1.0		ug/l	SW846 8260B
FA40898-2	GW-3					
Carbon Tetrachloride ^a		1240	25		ug/l	SW846 8260B
FA40898-3	GW-4					
Carbon Tetrachloride ^a		242	5.0		ug/l	SW846 8260B
Chloroform ^a		3.7	1.0		ug/l	SW846 8260B

(a) Sample was not preserved to a pH < 2.

Report of Analysis

Client Sample ID: GW-1		Date Sampled: 01/30/17	
Lab Sample ID: FA40898-1		Date Received: 02/02/17	
Matrix: AQ - Ground Water		Percent Solids: n/a	
Method: SW846 8260B			
Project: AGRA CCC/USDA, Agra, KS			
File ID	DF	By	Prep Date
Run #1 a N0100713.D	1	KM	n/a
Run #2			VN4591
Purge Volume			
Run #1	5.0 ml		
Run #2			

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	57.2	1.0	ug/l	
67-66-3	Chloroform	5.4	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%	
2037-26-5	Toluene-D8	96%		85-112%	
460-00-4	4-Bromofluorobenzene	103%		83-118%	

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	GW-3	Date Sampled:	01/30/17
Lab Sample ID:	FA40898-2	Date Received:	02/02/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AGRA CCC/USDA, Agra, KS		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 a	N0100714.D	25	02/03/17	KM	n/a	VN4591
Run #2						

Purge Volume
Run #1 5.0 ml
Run #2

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	1240	25	ug/l	
67-66-3	Chloroform	ND	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%	
2037-26-5	Toluene-D8	97%		85-112%	
460-00-4	4-Bromofluorobenzene	101%		83-118%	

(a) Sample was not preserved to a pH < 2.

Report of Analysis

Page 1 of 1

Client Sample ID:	GW-4	Date Sampled:	01/30/17
Lab Sample ID:	FA40898-3	Date Received:	02/02/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AGRA CCC/USDA, Agra, KS		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 a	M93560.D	1	02/06/17	KM	n/a	VN4005
Run #2 a	N0100715.D	5	02/03/17	KM	n/a	VN4591

Purge Volume
Run #1
5.0 ml
Run #2
5.0 ml

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	242 b	5.0	ug/l	
67-66-3	Chloroform	3.7	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	95%	98%	83-118%	
17060-07-0	1,2-Dichloroethane-D4	101%	101%	79-125%	
2037-26-5	Toluene-D8	98%	95%	85-112%	
460-00-4	4-Bromofluorobenzene	102%	104%	83-118%	

(a) Sample was not preserved to a pH < 2.

(b) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Section 4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast

Chain of Custody

405 Vineland Road, Suite C-13, Ocala, FL 32811

Tel: 407-425-9300 • Fax: 407-425-9707

ACCUTEST
LABORATORIES

2775 Arnold Ave Ste D

Sebring, Florida 34801

Day: 888-888-8888

Fax: 888-888-8888

Reports to:

Day: 888-888-8888

Fax: 888-888-8888

Reports to:

Day: 888-888-8888

Fax: 888-888-8888

Reports to:

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Account Job

FA40898

Page 1 of 3

Account Code #

544

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FA40898: Chain of Custody
Page 1 of 3

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA 40898 CLIENT: 660000E PROJECT: 1491
 DATE/TIME RECEIVED: 02-08-17 01:45 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDX AIRBILL NUMBER: 8100 3328 0372 ACCUTEST COURIER DELIVERY OTHER: _____

COOLER INFORMATION
☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
☐ TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION
 IR THERM ID _____ COOL FACTOR 10.8
 OBSERVED TEMPS: 4.0 (USED FOR LIMS)
 CORRECTED TEMPS: 4.8

SAMPLE INFORMATION
☐ INCORRECT NUMBER OF CONTAINERS USED
☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
☐ INSUFFICIENT VOLUME FOR ANALYSIS
☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
☐ IDs ON COC DO NOT MATCH LABEL
☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
☐ UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
☐ SAMPLE CONTAINERS RECEIVED BROKEN
☐ 604 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS

TRIP BLANK INFORMATION
☒ TRIP BLANK PROVIDED
☒ TRIP BLANK NOT PROVIDED
☒ TRIP BLANK NOT ON COC
☒ TRIP BLANK INTACT
☒ TRIP BLANK NOT INTACT
☒ RECEIVED WATER TRIP BLANK
☒ RECEIVED SOIL TRIP BLANK

MISC INFORMATION
 NUMBER OF ENCORES: 25 GRAM 5 GRAM
 NUMBER OF 505 FIELD KITS: 1
 NUMBER OF LAB FILTERED METALS: 1
 TEST STRIP LOT# PH 0-3 23015
 SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 02-08-17 REVIEWER SIGNATURE/DATE: 02/02/17
 NF 02/16 receipt confirmation 020116.xls

FedEx
 THU - 02 FEB 10:30A
 PRIORITY OVERNIGHT
 32811
 MCO
 XH ORLA
 32811
 MCO

Method Blank Summary
 Job Number: FA40898
 Account: GCOREKSR GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agra, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN4591-MB	N0100708.D	1	02/03/17	KM	n/a	n/a	VN4591

Method: SW846 8260B

The QC reported here applies to the following samples:

FA40898-1, FA40898-2, FA40898-3

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Limits			
1868-53-7	Dibromofluoromethane	98%			83-118%
17060-07-0	1,2-Dichloroethane-D4	100%			79-125%
2037-28-5	Toluene-D8	96%			85-112%
460-00-4	4-Bromofluorobenzene	99%			83-118%

Method Blank Summary

Job Number: FA40898
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4005-MB	M93536.D	1	02/06/17	KM	n/a	n/a	VM4005

The QC reported here applies to the following samples:

FA40898-3

Method: SW846 8260B

CAS No.	Compound	Result	RL	Units	Q
67-66-3	Chloroform	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Limits			
1868-53-7	Dibromofluoromethane	105%	83-118%		
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%		
2037-26-5	Toluene-D8	98%	85-112%		
460-00-4	4-Bromofluorobenzene	100%	83-118%		

5.1.2

5

Blank Spike Summary

Job Number: FA40898
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN4591-BS	N0100707.D	1	02/03/17	KM	n/a	n/a	VN4591

The QC reported here applies to the following samples:

FA40898-1, FA40898-2, FA40898-3

Method: SW846 8260B

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	25	22.9	92	76-136
67-66-3	Chloroform	25	21.4	86	80-124
107-06-2	1,2-Dichloroethane	25	20.8	83	75-125
CAS No.	Surrogate Recoveries	BSP	Limits		
1868-53-7	Dibromofluoromethane	99%	83-118%		
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%		
2037-26-5	Toluene-D8	99%	85-112%		
460-00-4	4-Bromofluorobenzene	102%	83-118%		

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA40898
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4005-BS	M93535.D	1	02/06/17	KM	n/a	n/a	VM4005

Method: SW846 8260B

The QC reported here applies to the following samples:

FA40898-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-66-3	Chloroform	25	24.2	97	80-124
107-06-2	1,2-Dichloroethane	25	24.0	96	75-125
CAS No.	Surrogate Recoveries	BSP	Limits		
1868-53-7	Dibromofluoromethane	100%	83-118%		
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%		
2037-26-5	Toluene-D8	101%	85-112%		
460-00-4	4-Bromofluorobenzene	99%	83-118%		

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA40898
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA40897-2MS	N0100725.D	1	02/03/17	KM	n/a	n/a	VN4591
FA40897-2MSD	N0100726.D	1	02/03/17	KM	n/a	n/a	VN4591
FA40897-2	N0100716.D	1	02/03/17	KM	n/a	n/a	VN4591

Method: SW846 8260B

The QC reported here applies to the following samples:

FA40898-1, FA40898-2, FA40898-3

CAS No.	Compound	FA40897-2 ug/l	Spike ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	1.0 U	25	25.6	102	22.5	90	13
67-66-3	Chloroform	1.0 U	25	24.2	97	22.6	90	7
107-06-2	1,2-Dichloroethane	1.0 U	25	24.5	98	22.0	88	11
CAS No.	Surrogate Recoveries	MS	MSD	FA40897-2	Limits			
1868-53-7	Dibromofluoromethane	103%	101%	102%	83-118%			
17060-07-0	1,2-Dichloroethane-D4	100%	100%	104%	79-125%			
2037-26-5	Toluene-D8	99%	96%	94%	85-112%			
460-00-4	4-Bromofluorobenzene	99%	100%	101%	83-118%			

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA40898

Account: GCOREKSR GeoCore, Inc.-Remediation

Project: AGRA CCC/USDA, Agra, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA40841-26MS	M93558.D	5	02/06/17	KM	n/a	n/a	VM4005
FA40841-26MSD	M93559.D	5	02/06/17	KM	n/a	n/a	VM4005
FA40841-26	M93537.D	5	02/06/17	KM	n/a	n/a	VM4005

5.3.2

The QC reported here applies to the following samples: Method: SW846 8260B

FA40898-3

CAS No.	Compound	FA40841-26 Spike ug/l	Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	5.0 U	125	110	88	125	120	96	9	80-124/15
107-06-2	1,2-Dichloroethane	5.0 U	125	105	84	125	118	94	12	75-125/14
CAS No.	Surrogate Recoveries	MS	MSD	FA40841-26 Limits						
1888-53-7	Dibromofluoromethane	100%	99%	103%	103%	83-118%				
17060-07-0	1,2-Dichloroethane-D4	98%	98%	100%	100%	79-125%				
2037-26-5	Toluene-D8	102%	101%	98%	98%	85-112%				
460-00-4	4-Bromofluorobenzene	100%	99%	100%	100%	83-118%				

* = Outside of Control Limits.

Technical Report for

GeoCore, Inc.-Remediation

AGRA

1491

SGS Accutest Job Number: JC36489

Sampling Date: 01/30/17

Report to:

GeoCore
2775 Arnold Avenue Suite D
Salina, KS 67401
wayne.boling@sgs.com; jlaire@geocore.net;
dcorl@geocore.net; boentrich@geocore.net
ATTN: Brad Oentrich

Total number of pages in report: 29

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10993), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC,
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Sample Summary

GeoCore, Inc.-Remediation

ACGRA

Project No: 1491

Job No: JC36489

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC36489-1	01/30/17	10:40 TB	02/01/17	AIR	Soil Vapor Grab	SVE-1
JC36489-2	01/30/17	10:50 TB	02/01/17	AIR	Soil Vapor Grab	SVE-2
JC36489-3	01/30/17	11:00 TB	02/01/17	AIR	Soil Vapor Grab	SVE-3
JC36489-4	01/30/17	10:20 TB	02/01/17	AIR	Soil Vapor Grab	SVE-4
JC36489-5	01/30/17	10:30 TB	02/01/17	AIR	Soil Vapor Grab	SVE-5
JC36489-6	01/30/17	11:10 TB	02/01/17	AIR	Soil Vapor Grab	SVE-MANIFOLD

Summary of Hits
 Job Number: JC36489
 Account: GeoCore, Inc.-Remediation
 Project: ACGRA
 Collected: 01/30/17

Lab Analyte	Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
Carbon tetrachloride	JC36489-1	SVE-1	0.99	0.80	0.12	ppbv	TO-15
Carbon tetrachloride			6.2	5.0	0.75	ug/m3	TO-15
Carbon tetrachloride	JC36489-2	SVE-2	0.51 J	0.80	0.12	ppbv	TO-15
Carbon tetrachloride			3.2 J	5.0	0.75	ug/m3	TO-15
Carbon tetrachloride	JC36489-3	SVE-3	22.9	0.80	0.12	ppbv	TO-15
Carbon tetrachloride			144	5.0	0.75	ug/m3	TO-15
Carbon tetrachloride	JC36489-4	SVE-4	2.6	0.80	0.12	ppbv	TO-15
Carbon tetrachloride			16	5.0	0.75	ug/m3	TO-15
Carbon tetrachloride	JC36489-5	SVE-5	0.41 J	0.80	0.066	ppbv	TO-15
Carbon tetrachloride			58.8	0.80	0.12	ppbv	TO-15
Carbon tetrachloride			2.0 J	3.9	0.32	ug/m3	TO-15
Carbon tetrachloride			370	5.0	0.75	ug/m3	TO-15
Carbon tetrachloride	JC36489-6	SVE-MANIFOLD	10.2	0.80	0.12	ppbv	TO-15
Carbon tetrachloride			64.2	5.0	0.75	ug/m3	TO-15

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID: SVE-1

Lab Sample ID: JC36489-1

Matrix: AIR - Soil Vapor Grab Summa ID: A794

Method: TO-15

Project: AGRA

Date Sampled: 01/30/17

Date Received: 02/01/17

Percent Solids: n/a

File ID	DF	By	Prep Date	Prep Batch	Analytical Batch
Run #1 Run #2	5W22674.D 1	02/08/17 DFT	n/a	n/a	V5W899

Initial Volume
100 ml

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.066	ppbv	ND	3.9	0.32	ug/m3	
56-23-5	153.8	Carbon tetrachloride	0.99	0.80	0.12	ppbv	6.2	5.0	0.75	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.070	ppbv	ND	3.2	0.28	ug/m3	
CAS No.	Surrogate Recoveries		Run# 1	Run# 2	Limits						
460-00-4	4-Bromofluorobenzene		100%		65-128%						

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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3.2

Client Sample ID:	SVE-2	Lab Sample ID:	JC36489-2	Matrix:	AIR - Soil Vapor Grab	Summa ID:	A402	Date Sampled:	01/30/17	Date Received:	02/01/17	Percent Solids:	n/a
Method:	TO-15	Project:	AGRA										
File ID	DF	By	Prep Date	Prep Batch	Analytical Batch								
Run #1	5W22675.D	1	02/08/17	DFT	n/a	Run #1	5W22675.D	1	02/08/17	DFT	n/a	Run #1	5W22675.D
Run #2						Run #2						Run #2	
Initial Volume													
Run #1	100 ml												
Run #2													

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-86-3	119.4	Chloroform	ND	0.80	0.066	ppbv	ND	3.9	0.32	ug/m3	
56-23-5	153.8	Carbon tetrachloride	0.51	0.80	0.12	ppbv	J	3.2	5.0	0.75	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.070	ppbv	ND	3.2	0.28	ug/m3	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	101%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

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3.3

Client Sample ID:	SVE-3	Lab Sample ID:	JC36489-3	Matrix:	AIR - Soil Vapor Grab	Summa ID:	A406	Date Sampled:	01/30/17	Date Received:	02/01/17	Percent Solids:	n/a
Method:	TO-15	Project:	AGRA										
File ID	DF	By	Prep Date	Prep Batch	Analytical Batch								
Run #1	5W22676.D	1	02/08/17	DFT	n/a	Run #1	5W22676.D	1	02/08/17	DFT	n/a	Run #1	5W22676.D
Run #2						Run #2						Run #2	
Initial Volume													
Run #1	100 ml												
Run #2													

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-86-3	119.4	Chloroform	ND	0.80	0.066	ppbv	ND	3.9	0.32	ug/m3	
56-23-5	153.8	Carbon tetrachloride	22.9	0.80	0.12	ppbv	144	5.0	0.75	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.070	ppbv	ND	3.2	0.28	ug/m3	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	101%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.4

Client Sample ID: SVE-4	Date Sampled: 01/30/17
Lab Sample ID: JC36489-4	Date Received: 02/01/17
Matrix: AIR - Soil Vapor Grab	Summa ID: A547
Method: TO-15	Percent Solids: n/a
Project: AGRA	

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W22677.D	1	02/08/17	DFT	n/a	V5W899
Run #2						

Initial Volume	
Run #1	100 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.066	ppbv	ND	16	ND	3.9	0.32 ug/m3
56-23-5	153.8	Carbon tetrachloride	2.6	0.80	0.12	ppbv	ND	16	ND	5.0	0.75 ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.070	ppbv	ND	ND	ND	3.2	0.28 ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	98%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.5

Client Sample ID: SVE-5	Date Sampled: 01/30/17
Lab Sample ID: JC36489-5	Date Received: 02/01/17
Matrix: AIR - Soil Vapor Grab	Summa ID: A385
Method: TO-15	Percent Solids: n/a
Project: AGRA	

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W22678.D	1	02/09/17	DFT	n/a	V5W899
Run #2						

Initial Volume	
Run #1	100 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	0.41	0.80	0.066	ppbv	J	2.0	3.9	0.32	ug/m3
56-23-5	153.8	Carbon tetrachloride	58.8	0.80	0.12	ppbv	370	ND	5.0	0.75	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.070	ppbv	ND	ND	3.2	0.28	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	99%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3.6

Client Sample ID: SVE-MANIFOLD
Lab Sample ID: JC36489-6
Matrix: AIR - Soil Vapor Grab Summa ID: A598
Method: TO-15
Project: AGRA
Date Sampled: 01/30/17
Date Received: 02/01/17
Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W22680.D	1	02/09/17	DFT	n/a	n/a	V5W899
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-86-3	119.4	Chloroform	ND	0.80	0.066	ppbv	ND	3.9	0.32	ug/m3	
56-23-5	153.8	Carbon tetrachloride	10.2	0.80	0.12	ppbv	64.2	5.0	0.75	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.070	ppbv	ND	3.2	0.28	ug/m3	
CAS No.		Surrogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4		4-Bromofluorobenzene	100%		65-128%						

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Section 4

4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

Responded to by: Michelle

Response:

Please run for VTO155. (SL linked to project CCKSS42572)

Response Date: 2/1

Summa Canister and Flow Controller Log

Job Number: JC36489

Account: GCOREKSR GeoCore, Inc.-Remediation

Project: AGRA

Received: 02/01/17

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4.1

4

SUMMA CANISTERS											
Shipping			Vac			SCC			Receiving		
ID	L	"	Hg	Out	By	Batch	FileID	Sample Number	Date In	By	Dil
A794	1	29.4	01/20/17	JR	CP8942	W58027.D	JC36489-1	02/01/17	PC	2.5	1
A402	1	29.4	01/20/17	JR	CP8942	W58027.D	JC36489-2	02/01/17	PC	2.5	1
A406	1	29.4	01/20/17	JR	CP8942	W58027.D	JC36489-3	02/01/17	PC	2.5	1
A547	1	29.4	01/20/17	JR	CP8942	W58027.D	JC36489-4	02/01/17	PC	2	1
A385	1	29.4	01/20/17	JR	CP8942	W58027.D	JC36489-5	02/01/17	PC	3.5	1
A588	1	29.4	01/20/17	JR	CP8942	W58027.D	JC36489-6	02/01/17	PC	1.5	1

SGS Accutest Bottle Order(s):

MJ-1/18/2017-20

Prep Date 01/20/17 Room Temp(F) 70 Bar Pres "Hg 29.92

Section 5

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W899-MB	5W22686.D	1	02/08/17	DFT	n/a	n/a	V5W899

The QC reported here applies to the following samples:

JC36489-1, JC36489-2, JC36489-3, JC36489-4, JC36489-5, JC36489-6

Method: TO-15

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ppbv	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ppbv	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ppbv	ND	0.81	ug/m3

CAS No. Surrogate Recoveries

460-00-4	4-Bromofluorobenzene	93%	65-128%
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Method Blank Summary

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Page 1 of 1

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
VW2324-MB	W58010.D	1	DFT	01/11/17	n/a	n/a	VW2324

The QC reported here applies to the following samples:

VW2324-SCC

Method: TO-15

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
480-00-4	4-Bromofluorobenzene	80%
		65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Page 1 of 1

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
V5W899-BS	5W22663.D	1	DFT	02/08/17	n/a	n/a	V5W899
V5W899-BSD	5W22664.D	1	DFT	02/08/17	n/a	n/a	V5W899

The QC reported here applies to the following samples:

JC36489-1, JC36489-2, JC36489-3, JC36489-4, JC36489-5, JC36489-6

Method: TO-15

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	Limits Rec/RPD
67-66-3	Chloroform	10	9.2	92	10.3	103	11 70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	11.8	118	12 70-130/30
107-06-2	1,2-Dichloroethane	10	10.0	100	11.4	114	13 70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
480-00-4	4-Bromofluorobenzene	100%	102%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: JC36489

Account: GCOREKSR GeoCore, Inc.-Remediation

Project: AGRA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2324-BS	W58007.D	1	01/11/17	DFT	n/a	n/a	VW2324
VW2324-BSD	W58008.D	1	01/11/17	DFT	n/a	n/a	VW2324

The QC reported here applies to the following samples:

VW2324-SCC

Method: TO-15

5.2.2

5

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	10.8	108	10.6	106	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.7	107	10.7	107	0	70-130/30
107-06-2	1,2-Dichloroethane	10	11.3	113	11.0	110	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	105%	107%	65-128%

* = Outside of Control Limits.

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ACCUTEST
JC36489

Duplicate Summary

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Job Number: JC36489

Account: GCOREKSR GeoCore, Inc.-Remediation

Project: AGRA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC36489-5DUP	5W22679.D	1	02/09/17	DFT	n/a	n/a	V5W899
JC36489-5	5W22678.D	1	02/09/17	DFT	n/a	n/a	V5W899

The QC reported here applies to the following samples:

JC36489-1, JC36489-2, JC36489-3, JC36489-4, JC36489-5, JC36489-6

Method: TO-15

CAS No.	Compound	JC36489-5 ppbv	DUP ppbv	Q	RPD	Limits
67-66-3	Chloroform	0.41	J	0.38	J	8 12
56-23-5	Carbon tetrachloride	58.8	55.8	5	5	10
107-06-2	1,2-Dichloroethane	ND	ND	uc	uc	20

CAS No.	Surrogate Recoveries	DUP	JC36489-5	Limits
460-00-4	4-Bromofluorobenzene	97%	99%	65-128%

* = Outside of Control Limits.

SGS
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ACCUTEST
JC36489

Summa Cleaning Certification

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
VW2324-SCC	W58027.D	1	DFT	01/12/17	n/a	n/a	VW2324

The QC reported here (Summa A674) applies to the following samples: Method: TO-15

Batch CP8942 cleaned 01/06/17: JC36489-1(A794), JC36489-2(A402), JC36489-3(A406), JC36489-4(A547), JC36489-5(A385), JC36489-6(A598)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	0.98	ug/m3	
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	1.3	ug/m3	
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	0.81	ug/m3	

CAS No.	Surrogate Recoveries	Limits
480-00-4	4-Bromofluorobenzene	77% 65-128%

Instrument Performance Check (BFB)

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Sample: VSW881-BFB
Lab File ID: 5W22153.D
Instrument ID: GCM55W

Injection Date: 01/12/17
Injection Time: 10:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	29930	15.2	Pass
75	30.0 - 66.0% of mass 95	83434	42.3	Pass
95	Base peak, 100% relative abundance	197205	100.0	Pass
96	5.0 - 9.0% of mass 95	13105	6.65	Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) a
174	50.0 - 120.0% of mass 95	172928	87.7	Pass
175	4.0 - 9.01% of mass 174	12925	6.55	(7.47) a
176	93.0 - 101.0% of mass 174	166741	84.6	(96.4) a
177	5.0 - 9.0% of mass 176	11198	5.68	(6.72) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VSW881-IC881	5W22154.D	01/12/17	10:56	00:41	Initial cal 0.04
VSW881-IC881	5W22155.D	01/12/17	11:38	01:23	Initial cal 0.1
VSW881-IC881	5W22156.D	01/12/17	12:19	02:04	Initial cal 0.2
VSW881-IC881	5W22157.D	01/12/17	13:02	02:47	Initial cal 0.5
VSW881-IC881	5W22158.D	01/12/17	13:43	03:28	Initial cal 5
VSW881-IC881	5W22159.D	01/12/17	14:26	04:11	Initial cal 10
VSW881-IC881	5W22160.D	01/12/17	15:11	04:56	Initial cal 20
VSW881-IC881	5W22161.D	01/12/17	15:56	05:41	Initial cal 40
VSW882-BS	5W22163A.D	01/12/17	17:23	07:08	Initial cal verification 10
VSW881-ICV881	5W22163.D	01/12/17	17:23	07:08	Blank Spike
VSW882-BSD	5W22164.D	01/12/17	18:04	07:49	Blank Spike Duplicate
VSW882-MB	5W22166.D	01/12/17	19:35	08:20	Method Blank
ZZZZZZ	5W22167.D	01/12/17	20:17	10:02	(unrelated sample)
ZZZZZZ	5W22168.D	01/12/17	20:59	10:44	(unrelated sample)
ZZZZZZ	5W22169.D	01/12/17	21:40	11:25	(unrelated sample)
ZZZZZZ	5W22170.D	01/12/17	22:21	12:06	(unrelated sample)
ZZZZZZ	5W22171.D	01/12/17	23:02	12:47	(unrelated sample)
ZZZZZZ	5W22172.D	01/12/17	23:44	13:29	(unrelated sample)
ZZZZZZ	5W22173.D	01/13/17	00:26	14:11	(unrelated sample)
ZZZZZZ	5W22174.D	01/13/17	01:09	14:54	(unrelated sample)
ZZZZZZ	5W22175.D	01/13/17	01:51	15:36	(unrelated sample)
ZZZZZZ	5W22176.D	01/13/17	02:34	16:19	(unrelated sample)
ZZZZZZ	5W22177.D	01/13/17	03:15	17:00	(unrelated sample)
ZZZZZZ	5W22178.D	01/13/17	03:57	17:42	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC36489
Account: GCOREKSR GeoCare, Inc.-Remediation
Project: AGRA

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Sample: V5W881-BFB
Lab File ID: 5W22153.D
Instrument ID: GCMSSW

Sample: V5W889-BFB
Lab File ID: 5W22662.D
Instrument ID: GCMSSW

Injection Date: 01/12/17
Injection Time: 10:15

Injection Date: 02/08/17
Injection Time: 11:49

Lab Sample ID ZZZZZZ
ZZZZZZ

Lab Sample ID 50
75
95
96
173
174
175
176
177

Ion Abundance Criteria

Raw Abundance

% Relative Abundance

Pass/Fail

5.5.1

5

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W899-CC881	5W22662.D	02/08/17	11:49	00:00	Continuing cal 10
V5W899-BS	5W22663.D	02/08/17	12:46	00:57	Blank Spike
V5W899-BSD	5W22664.D	02/08/17	13:30	01:41	Blank Spike Duplicate
V5W899-MB	5W22666.D	02/08/17	15:08	03:19	Method Blank
ZZZZZZ	5W22667.D	02/08/17	16:17	04:28	(unrelated sample)
ZZZZZZ	5W22668.D	02/08/17	17:03	05:14	(unrelated sample)
ZZZZZZ	5W22669.D	02/08/17	17:51	06:02	(unrelated sample)
ZZZZZZ	5W22670.D	02/08/17	18:36	06:47	(unrelated sample)
ZZZZZZ	5W22671.D	02/08/17	19:19	07:30	(unrelated sample)
ZZZZZZ	5W22672.D	02/08/17	20:01	08:12	(unrelated sample)
ZZZZZZ	5W22673.D	02/08/17	20:49	09:00	(unrelated sample)
JC36489-1	5W22674.D	02/08/17	21:32	09:43	SVE-1
JC36489-2	5W22675.D	02/08/17	22:14	10:25	SVE-2
JC36489-3	5W22676.D	02/08/17	22:56	11:07	SVE-3
JC36489-4	5W22677.D	02/08/17	23:39	11:50	SVE-4
JC36489-5	5W22678.D	02/09/17	00:23	12:34	SVE-5
JC36489-5DUP	5W22679.D	02/09/17	01:06	13:17	Duplicate
JC36489-6	5W22680.D	02/09/17	01:49	14:00	SVE-MANIFOLD
ZZZZZZ	5W22681.D	02/09/17	02:35	14:46	(unrelated sample)
ZZZZZZ	5W22682.D	02/09/17	03:22	15:33	(unrelated sample)
ZZZZZZ	5W22683.D	02/09/17	04:10	16:21	(unrelated sample)
ZZZZZZ	5W22684.D	02/09/17	04:57	17:08	(unrelated sample)

SGS
ACCUTEST
JC36489

25 of 29

SGS
ACCUTEST
JC36489

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Instrument Performance Check (BFB)

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Page 1 of 1

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Sample: VW2322-BFB
Lab File ID: W57956.D
Instrument ID: GCMSW

Injection Date: 01/09/17
Injection Time: 12:49

Injection Date: 01/11/17
Injection Time: 11:44

5.5.3

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	20296	13.4	Pass
75	30.0 - 66.0% of mass 95	62144	40.9	Pass
95	Base peak, 100% relative abundance	151786	100.0	Pass
96	5.0 - 9.0% of mass 95	9733	6.41	Pass
173	Less than 2.0% of mass 174	767	0.51	Pass
174	50.0 - 120.0% of mass 95	151914	100.1	Pass
175	4.0 - 9.01% of mass 174	11190	7.37	Pass
176	93.0 - 101.0% of mass 174	148309	97.7	Pass
177	5.0 - 9.0% of mass 176	9480	6.25	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW2322-IC2322	W57957.D	01/09/17	13:30	00:41	Initial cal 0.04
VW2322-IC2322	W57958.D	01/09/17	14:10	01:21	Initial cal 0.1
VW2322-IC2322	W57961.D	01/09/17	16:14	03:25	Initial cal 5
VW2322-IC2322	W57962.D	01/09/17	16:55	04:06	Initial cal 10
VW2322-IC2322	W57963.D	01/09/17	17:36	04:47	Initial cal 20
VW2322-IC2322	W57965.D	01/09/17	18:59	06:10	Initial cal 40
VW2322-IC2322	W57968.D	01/10/17	09:25	20:36	Initial cal 0.5
VW2322-IC2322	W57970.D	01/10/17	10:05	21:16	Initial cal 0.2
VW2322-ICV2322	W57971.D	01/10/17	10:53	22:04	Initial cal verification 10

5.5.4

5

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Sample: VW2324-BFB
Lab File ID: W58005.D
Instrument ID: GCMSW

Injection Date: 01/11/17
Injection Time: 11:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	16373	16.2	Pass
75	30.0 - 66.0% of mass 95	45442	45.0	Pass
95	Base peak, 100% relative abundance	100893	100.0	Pass
96	5.0 - 9.0% of mass 95	6650	6.59	Pass
173	Less than 2.0% of mass 174	798	0.79	Pass
174	50.0 - 120.0% of mass 95	96616	95.8	Pass
175	4.0 - 9.01% of mass 174	6807	6.75	Pass
176	93.0 - 101.0% of mass 174	94509	93.7	Pass
177	5.0 - 9.0% of mass 176	6076	6.02	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW2324-CC2322	W58006.D	01/11/17	12:25	00:41	Continuing cal 10
VW2324-BS	W58007.D	01/11/17	13:17	01:33	Blank Spike
VW2324-BS	W58008.D	01/11/17	13:58	02:14	Blank Spike Duplicate
VW2324-MB	W58010.D	01/11/17	15:22	03:38	Method Blank
ZZZZZZ	W58012.D	01/11/17	16:47	05:03	(unrelated sample)
ZZZZZZ	W58013.D	01/11/17	17:28	05:44	(unrelated sample)
ZZZZZZ	W58014.D	01/11/17	18:09	06:25	(unrelated sample)
ZZZZZZ	W58015.D	01/11/17	18:50	07:06	(unrelated sample)
ZZZZZZ	W58016.D	01/11/17	19:31	07:47	(unrelated sample)
ZZZZZZ	W58017.D	01/11/17	20:12	08:28	(unrelated sample)
ZZZZZZ	W58018.D	01/11/17	20:54	09:10	(unrelated sample)
ZZZZZZ	W58019.D	01/11/17	21:35	09:51	(unrelated sample)
JC35049-8	W58020.D	01/11/17	22:16	10:32	(used for QC only; not part of job JC36489)
JC35049-8DUP	W58021.D	01/11/17	22:58	11:14	Duplicate
ZZZZZZ	W58022.D	01/11/17	23:38	11:54	(unrelated sample)
ZZZZZZ	W58023.D	01/12/17	00:19	12:35	(unrelated sample)
ZZZZZZ	W58024.D	01/12/17	01:01	13:17	(unrelated sample)
ZZZZZZ	W58025.D	01/12/17	01:42	13:58	(unrelated sample)
VW2324-SCC	W58027.D	01/12/17	03:05	15:21	Summa Cleaning Certification
ZZZZZZ	W58029.D	01/12/17	04:28	16:44	(unrelated sample)

Volatile Surrogate Recovery Summary

Job Number: JC36489
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA

Method: TO-15		Matrix: AIR	
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Samples and QC shown here apply to the above method

Lab	Sample ID	Lab	File ID	S1
JC36489-1		5W22674.D	100	
JC36489-2		5W22675.D	101	
JC36489-3		5W22676.D	101	
JC36489-4		5W22677.D	98	
JC36489-5		5W22678.D	99	
JC36489-6		5W22680.D	100	
JC36489-5DUP		5W22679.D	97	
V5W899-RS		5W22663.D	100	
V5W899-RSD		5W22664.D	102	
V5W899-MB		5W22666.D	93	
VW2324-SCC		W58027.D	77	
VW2324-RS		W58007.D	105	
VW2324-RSD		W58008.D	107	
VW2324-MB		W58010.D	80	
Surrogate Compounds			Recovery Limits	
S1 = 4-Bromofluorobenzene			65-128%	

5.6.1 5

APPENDIX 2

FIELD NOTES

AND

SUPPORTING DOCUMENTATION

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
 Facility Address: 671 Railroad Ave
 Agra, Kansas
 Consultant: GreenField Contractors, Inc.
 Consulting Project Mgr: Tim Pace
 Reporting Period: 12-29-16 thru 1-30-17
 Days in Reporting Period: _____
 Field Sheet Revision Date: _____

PROJ. # 1491
 Inspector: Tim Dorch
 Inspection Date: 1-30-17
 Inspection Time: 14:35
 Electrical Meter Reading: 52387

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 5591.6 Previous 5560.3 Present
 25 SCFM 12 PSI
 11.7 SCFM 18.0 PSI
 47738.5 Previous 47507.2 Present

Design Parameters for Air Sparge System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: _____

Well ID	K.O. Tank	Time	GROUNDWATER ELEVATIONS			Free Phase Prod. Elev.	Free Phase Prod. Thick.	G.O.
			TOC	Water (TOC)	Product (TOC)			
GW-1		472074	Elevation					
GW-3		472638						
GW-4		472159						

DATES		SYSTEM DOWN TIME SUMMARY	
From	To	Exhaustion for Down Time	(Indicate Corrective Measures Taken)

REMEDATION SYSTEM MAINTENANCE RECORD

Date of Changes: 1-30-17

Description of Work Performed		Performed by
K.O. Tank	Drained	Tim Dorch
Filters SVE	Replaced	
ASP Blower Grease	Checked	
Cleaned SVE lines	Yes	
Cleaned Flowmeters	Yes	
Used wastewater around trailer	Yes	
Swept trailer	Yes	
Sensaphone Surge Protector	Bad	
Adjusted Air dilution:	From: Closed To: Closed	
Aire Width:		
AIR Sparge vane measurement minimum 25 MM		

Check Quantity: _____
 Becker 3.60

SVE Filter	Solberg	Need
Air Sparge Filter		

Air 4 Flowmeter broken Needs Replaced Shut off

Former Agra CCC/USDA

Proj. # 1491

Operating Status: Arrival On Off Departure On Off

SVE UNIT	Pre KO Tank Vacuum (H2O)	Pre Post Filter Vacuum (H2O)	Dilution Air Flowrate (cfm)	Cumulative Sum of SVE Wells	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
	84.4	-195.4	150	20.9	1.0	1.0	0

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold (H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead (H2O)
SVE-1	12.6	50	20.9	1.0	7.0
SVE-2	11.4	50	20.9	1.0	5.7
SVE-3	16.5	50	20.9	1.0	9.0
SVE-4					
SVE-5					

SPARGE UNWELL-FIELD DATA

Operating Status: Arrival On Off Departure On Off

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (% Open)	Pie Air Temp. (deg. F)	Post Air Temp. (deg. F)
	18.0	11.7	closed	101°	-

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Direct Read Flow Rate (cfm)
AS-1	4.88	4.50
AS-2	10+	9.64
AS-3	10+	10+
AS-4		
AS-5		

Pre KO Preflow Filter: Dil. Flow 02 CO2 THH
 85.4 - 96.0 closed 150 20.9 1.0 1.0
 man vac Flow 02 CO2 THH well vac
 13.1 50 20.9 1.0 1.0 6.9
 17.0 50 20.9 1.0 1.0 4.0
 15.3 50 20.9 1.0 1.0 9.0

Pre KO Preflow Filter: Dil. Flow 02 CO2 THH
 89.4 - 99.6 closed 150 20.9 1.0 1.0
 man vac Flow 02 CO2 THH well vac
 12.7 50 20.9 1.0 1.0 7.0
 11.3 50 20.9 1.0 1.0 4.0
 538.1 50 20.9 1.0 1.0 33.1

PSI Flow 2" line Pre Temp Post Temp
 11.0 7.0 closed 95°
 man vac well PSI Flow
 AS-1 4.85 4.58 3.5
 AS-2 9.88 9.67 3.5
 AS-4 0.4 Flowmeter broken Blue valve 74.50
 Dil Flow 2" line Pre Temp Post Temp
 11.5 17.0 closed 102°
 man vac well PSI Flow
 AS-1 4.84 4.58 3.5
 AS-2 9.97 9.54 3.5
 AS-5 10+ 10+ 10.0

AGRA CCCUSDA WELL INFORMATION <i>T.D. Wells</i>							Project # 1491
DATE: <i>1-30-17</i>							
Well	Total Depth (feet)	Permanent Tag Number	Temporary Tag Number Installed	SWL	Sample Time	Dissolved Oxygen (mg/L)	Volume Purged (Gallons)
GW-1			<i>472076</i>	<i>42.27</i>	<i>13:20</i>	<i>8.91</i>	<i>1.0</i>
GW-3			<i>472638</i>	<i>42.23</i>	<i>14:00</i>	<i>8.56</i>	<i>1.0</i>
GW-4			<i>472159</i>	<i>42.63</i>	<i>13:40</i>	<i>8.57</i>	<i>1.0</i>

Accutest

QUARTERLY

Sample Analysis: Carbon Tetrachloride, Chloroform, and 1,2 DCA (8260)
Record Dissolved Oxygen reading Quarterly

<i>T.D. Wells</i> <i>1-30-17</i> AGRA CCCUSDA AIR SAMPLES INFORMATION						
Well	Time Collected					
SVE-1	<i>10:40</i>	<i>A-794</i>				
SVE-2	<i>10:50</i>	<i>A-407</i>				
SVE-3	<i>11:00</i>	<i>A-406</i>				
SVE-4	<i>10:20</i>	<i>A-547</i>				
SVE-5	<i>10:30</i>	<i>A-385</i>				
SVE Manifold	<i>11:10</i>	<i>A-598</i>				

Columbia Analytical Service

QUARTERLY

Collect one Summa Canister sample from each SVE Manifold leg and one from the overall SVE manifold. 6 total. Analyze for Carbon Tetrachloride, Chloroform, & 1,2 DCA via TO-15.

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water		Wellhead Vacuum		Depth to Top of Screen		Length of Screen Exposed (Ft.)	
	Feet BGS (Rim)	Minus	(In./Ft. H2O)	Minus	Top of Screen	Equals	Exposed (Ft.)	
SVE-1	640-1 + 640-4 = 42 42.45		58		20		21.87	
SVE-2			48		20		21.97	
SVE-3			75		20		21.7	
SVE-4			75		20		21.7	
SVE-2			216		20		20.29	

NOTE: 1 PSI = 2.77 INCHES OF WATER
1 INCH HG = 13.6 INCHES OF WATER
Positive screen value equals length of screen exposed
Negative screen value equals length of screen flooded

Measurements Collected By T. Barak

Date Measurements Collected 1-30-17

Comments

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water		Difference in TOC		Depth to Top of Sparging Screen (Ft.)		Calculation to Determine Amt. PSI Needed		Wellhead Pressure Needed to Overcome Water Column	
	Feet	Plus / Minus	MVW- and AS Well	Adjusted Equals SWL	Minus	Adjusted SWL	Times	Equals		
AS-1		-			51.37	- 42.45	X	0.634	=	3.87
AS-2		-			58	-	X	0.634	=	6.75
AS-3		-			53.9	-	X	0.634	=	4.97
AS-4		-			58	-	X	0.634	=	6.75
AS-5		-			56.27	-	X	0.634	=	4.10

Measurements Collected By T. Barak

Date Measurements Collected 1-30-17

Comments

Site Address: Agra, KS.
Project Name: Former Agra CCC/USDA
Project Code: 1491

(*If you do not know where the hour meters are located or how to read them, you make leave this space blank.)

Printed Name	Date	Status ON/OFF	*Hour Meter Reading for each Piece of Equipment	Reason for Visit	Comments
Tim Dorch Greafors	10/28/16	on/on	1. 548-54304.9 2. 3. AS-46251.8 4.	Q	KP, empty 13:55-35517 Bil. closed Replaced AS, Vanos + F, Halls Repaired AS-1 at manifold
Tim Dorch Greafors	11/29/16	on/on	1. 561-55071.0 2. 3. AS-47017.9 4.	M	KP, empty 11:00-41255 Bil. closed
Tim Dorch Greafors	12/29/16	on/on	1. 586-55791.6 2. 3. AS-47738.5 4.	M	KP, empty 11:35-46591 Bil. closed
Tim Dorch Greafors	1/30/17	on/on	1. 588-56560.3 2. 3. AS-48507.2 4.	Q	KP, empty 14:35-52387 Bil. closed AS, Vanos 29 mm
			1.		
			2.		
			3.		
			4.		
			1.		
			2.		
			3.		
			4.		
			1.		
			2.		
			3.		
			4.		
			1.		
			2.		
			3.		
			4.		

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
Facility Address: 671 Railroad Ave
Agra, Kansas

Consultant: GreenField Contractors, Inc.
Reporting Period: 12-29-16 thru 12-29-16

Days in Reporting Period: 1
Field Sheet Revision Date: 12-29-16

PROJ. # 1481
Inspector: Tim Pace
Inspection Date: 12-29-16
Inspection Time: 11:35
Electrical Meter Reading: 46591

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 55071.0
Cycling Present
Design Parameters for Air Sparge System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 47017.4
Cycling Present

GROUNDWATER ELEVATIONS				
Well ID	Temp.	Depth to	Water Level	Free Phase
No.	Tag No.	Water (TOC)	Elevation	Prod. Elev.
GW-1	42026	42.38		
GW-3	42051	42.40		
GW-4	42193	42.81		

DATES		SYSTEM DOWN TIME SUMMARY	
From	To	Explanation for Down Time	(Indicate Corrective Measures Taken)

REMEDATION SYSTEM MAINTENANCE RECORD			
Date of Changes	Description of Work Performed	Performed by	
12-29-16	K.O. Tank Drained	Empty	
	Filters SVE Replaced	Cleaned	
	A/SP Blower Grease Added	Cleaned	
	Cleaned SVE lines	Yes	(No)
	Cleaned Flowmeters	Yes	(No)
	Used weed-eater around trailer	Yes	(No)
	Swept trailer	Yes	(No)
	Sensaphone Surge Protector	Adjusted	Bad
	Adjusted Air dilution:	Front: Closed	To: Closed
Check Quarterly	Vane Width:		
Becker 3 60	AIR Sparge vane measurement minimum 26 MM		

SVE Filter	Solberg	Need
Air Sparge Filler		

Former Agra CCC/USDA

Prof. # 1491

Operating Status: Arrive On Off Departure On Off

SVE UNIT	Vac. @ Manifold (H ₂ O)	Flow Rate (cfm)	Direct Read Flow Rate (cfm)	O ₂ Readings (%)	CO ₂ Readings (%H ₂ O)	TPH (PID) Readings (ppm)
	76.7	189.7	closed	165	20.9	1.0

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold (H ₂ O)	Flow Rate (cfm)	Direct Read Flow Rate (cfm)	O ₂ Readings (%)	CO ₂ Readings (%H ₂ O)	TPH/Drager Readings (ppm)	Vac. @ Wellhead (H ₂ O)
SVE-1	12.3	55	20.9	1.0	1.0	4.6	
SVE-2	12.3	55	20.9	1.0	1.0	5.4	
SVE-3	21.1	55	20.9	1.0	1.0	11.0	
SVE-4							
SVE-5							

SPARGE UNIT FIELD DATA

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (% Open)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
	20.0	11.6	closed	127°	—

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	4.74	4.37	4.2
AS-2	9.97	9.41	4.2
AS-3	10.4	10.4	3.2
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (in./Ft. H ₂ O)	Minus	Depth to Top of Screen	Length of Screen Exposed (Ft.)
SVE-1	6w-1 + 6w-4 ÷ 2 = 42.60	.38		20	22.22
SVE-2		.45		20	22.15
SVE-3		.92		20	21.68
SVE-4				20	
SVE-5				20	

NOTE: 1 PSI = 2.77 INCHES OF WATER
1 INCH HG = 13.6 INCHES OF WATER
Positive screen value equals length of screen exposed
Negative screen value equals length of screen flooded

Measurements Collected By T. Dork

Date Measurements Collected 12-29-16

Comments

Former Agra CCC/USDA

MONTHLY SPARSE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MWL and AS Well	Adjusted SWL	Depth to Top of Sparse Screen (Ft)	Minus	Adjusted SWL	Time	Calculating to Determine PSI Needed	Wellhead Pressure Below TOC in Water Column
AS-1		-			51.37	-	42.60	X	0.634	3.81
AS-2		-			55	-		X	0.634	6.68
AS-3		-			53.6	-		X	0.634	4.90
AS-4		-			55	-		X	0.634	6.68
AS-5		-			59.27	-		X	0.634	5.93

Measurements Collected By T. Dork

Date Measurements Collected 12-29-16

Comments

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
Facility Address: 871 Railroad Ave
Agra, Kansas

Consultant: GreenField Contractors, Inc.
Reporting Period: 10-28-16 thru 11-29-16

Days in Reporting Period: 32
Field Sheet Revision Date:

PROJ. # 1481
Inspector: Tim Beck
Inspection Date: 11-29-16
Inspection Time: 11:00
Electrical Meter Reading: 41255

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 54301.9
Previous: 53071.0
Present: 54301.9
Cycling: Present
Design Parameters for Air Sparge System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 47017.9
Previous: 46251.8
Present: 47017.9
Cycling: Present

GROUNDWATER ELEVATIONS				
Well ID	Temp	Open to	Water Level	Free Phase
No.	Tag No.	Water (TOC)	Elevation	Prod. Elev.
GW-1	47216.7	42.39		
GW-3	47225.8	42.23		
GW-4	47216.5	42.63		

SYSTEM DOWN TIME SUMMARY

DATES	From	To	Explanation for Down Time (Indicate Corrective Measures Taken)
11-29-16			

REMEDATION SYSTEM MAINTENANCE RECORD				
Date of Changes	Description of Work Performed	Performed by		
11-29-16	K.O. Tank Filters SVE A/S Blower Grease Cleaned SVE lines Cleaned Flowmeters Used weed-eater around trailer Swept trailer Sensaphone Surge Protector Adjusted Air dilution: Vane Width: Becker 3.60	Tim Beck	Replaced Checked Yes Yes Yes Yes Bad To: closed	Cleaned Cleaned 406 403 400 400 Bad To: closed

SVE Filler	Soberg			
Air Sparge Filter				

Former Agra CCC/USDA

Proj. # 1481

Operating Status:	Arrival On / Off	Departure On / Off	Pro Post Filter Vacuum (H ₂ O)	Dilution Air Flowrate (cfm)	Cumulative Sum of SVE Wells	O ₂ Readings (%)	CO ₂ Readings (%)	TPH (PID) Readings (ppm)
SVE UNIT	65.0	11-29-16	11-29-16	17.5	17.5	20.9	10	10

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold (H ₂ O)	Direct Read Flowrate (cfm)	O ₂ Readings (%)	CO ₂ Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead (H ₂ O)
SVE-1	11.8	55	20.9	10	10	4.9
SVE-2	11.8	55	20.9	10	10	3.8
SVE-3	21.4	65	20.9	10	10	10.8
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

Operating Status:	Arrival On / Off	Departure On / Off	Pressure (psf)	Flow Rate (cfm)	Bled Off (% Open)	Pie Air Temp. (deg. F)	Post Air Temp. (deg. F)
SPARGE UNIT	19.8	12.2	12.2	closed	124.0		

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psf)	Pressure @ Wellhead (psf)	Direct Read Flow Rate (cfm)
AS-1	4.83	4.44	4.0
AS-2	9.98	9.55	4.0
AS-3	10.4	10.4	4.2
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (in./ft. H ₂ O)	Minus	Depth to Top of Screen	Length of Screen Exposed (ft.)
SVE-1	6w1 + 6w4 + 2 42.51	41		20	22.1
SVE-2		32		20	22.19
SVE-3		9		20	21.61
SVE-4				20	
SVE-5				20	

NOTE:
 1 PSI = 2.77 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By T. Deal

Date Measurements Collected 11-29-16

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Top of Sparge Screen (ft.)	Adjusted SVL	Plus / Minus	Difference in TOC Calculation between MW- and AS Well	Adjusted SVL	Equals	Calculation to Determine Amt. PSI Needed	Times	Wellhead Pressure Needed to Overcome Water Column
AS-1	51.37	-42.51	-				0.634	X	3.85
AS-2	55		-				0.634	X	6.72
AS-3	55.3		-				0.634	X	4.94
AS-4	55		-				0.634	X	6.72
AS-5	56.27		-				0.634	X	5.97

Measurements Collected By T. Deal

Date Measurements Collected 11-29-16

Comments

Supplement 2:

GreenField Report for Monthly OMM Event on February 23, 2017

CONTRACTORS, INC.

ENVIRONMENTAL PROFESSIONALS

Post Office Box 677
Salina, Kansas 67402-0677
Phone (785) 822-0900
Fax (785) 826-9508

February 24, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Thirteenth Monthly OMM Report of the Fourth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the February 23, 2016 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 60.8 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 18.7 psi and cumulative airflow rate of 11.0 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 3.39 to greater than 10 psi. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

A handwritten signature in cursive script that reads "Melisa D. McElwee".

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
 Facility Address: 671 Railroad Ave
Agra, Kansas
 Consultant: GreenField Contractors, Inc.
 Consultant Project Mgr: Tim Pace
 Reporting Period: 1-30-17 thru 2-23-17
 Days in Reporting Period: _____
 Field Sheet Revision Date: _____

PROJ. # 1491
 Inspector: Tim Dorck
 Inspection Date: 2-23-17
 Inspection Time: 11:50
 Electrical Meter Reading: 56891

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:	250	SCFM	40	"H2O
Reporting Period Parameters:	<u>150</u>	SCFM	<u>60.8</u>	"H2O
Blower Operation:	X	Continual		Cycling
Hour Meter Reading:	<u>56560.3</u>	Previous	<u>57133.6</u>	Present

Design Parameters for Air Sparge System:	25	SCFM	12	PSI
Reporting Period Parameters:	<u>11.0</u>	SCFM	<u>18.7</u>	PSI
Blower Operation:	X	Continual		Cycling
Hour Meter Reading:	<u>48507.2</u>	Previous	<u>49080.5</u>	Present

GROUNDWATER ELEVATIONS

Well I.D. No.	KDHE Site I.D.	Temp. Tag No.	TOC Elevation	Depth to Water (TOC)	Depth to Product (TOC)	Water Level Elevation	Free Phase Prod. Elev.	Free Phase Prod. Thick.	D.O.
GW-1		<u>472817</u>		<u>42.20</u>					
GW-3		<u>472563</u>		<u>42.09</u>					
GW-4		<u>472872</u>		<u>42.54</u>					

SYSTEM DOWN TIME SUMMARY

DATES		Explanation for Down Time
From	To	(Indicate Corrective Measures Taken)
—	—	

REMEDATION SYSTEM MAINTENANCE RECORD

Date of Changes	Description of Work Performed				Performed by
<u>2-23-17</u>	K.O. Tank	Drained	K.O. Meter:	<u>Empty</u>	<u>T. Dorck</u>
	Filters SVE	<u>Checked</u>	Replaced	Cleaned	
	A/SP Blower Grease	<u>Checked</u>	Added	Cleaned	
	Cleared SVE lines		Yes	<u>No</u>	
	Cleaned Flowmeters		Yes	<u>No</u>	
	Used weedeater around trailer		Yes	<u>No</u>	
	Swept trailer		<u>Yes</u>	No	
	Sensaphone Surge Protector		<u>Good</u>	Bad	
	Adjusted Air dilution:	From: <u>closed</u>	To: <u>closed</u>		
	Vane Width:				
<u>Check Quarterly</u> Becker 3.60	AIR Sparge vane measurement minimum 26 MM				

Need

SVE Filter	Solberg					
Air Sparge Filter						

T. Dorc 2-23-17

Former Agra CCC/USDA

Proj. # 1491

Operating Status: Arrival On / Off Departure On / Off

SVE UNIT	Pre KO Tank Vacuum ("H2O)	Pre/Post Filter Vacuum ("H2O)	Dilution Air Flowrate (cfm)	Cumulative Flowrate (cfm) Sum of SVE Wells	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
	60.8	168.6 (closed)		150	20.9	.0	.0

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold ("H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead ("H2O)
SVE-1	7.2	50	20.9	.0	.0	3.5
SVE-2	8.1	50	20.9	.0	.0	3.5
SVE-3	12.7	50	20.9	.0	.0	5.6
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

Operating Status: Arrival On / Off Departure On / Off

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (% Open)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
	18.7	11.0	closed	115°	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	3.67	3.39	4.0
AS-2	7.36	7.04	4.0
AS-3	10+	10+	3.0
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Minus	Wellhead Vacuum (In./Ft. H2O)	Minus	Depth to Top of Screen	Equals	Length of Screen Exposed (Ft.)
SVE-1	$6W-1 + 6W-4 \div 2 = 42.37$	-	.29	-	20	=	22.08
SVE-2		-	.29	-	20	=	22.08
SVE-3		-	.47	-	20	=	21.90
SVE-4		-		-	20	=	
SVE-2		-		-	20	=	

NOTE: 1 PSI = 27.7 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By T. Decker

Date Measurements Collected 2-23-17

Comments _____

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MW- and AS Well	Equals	Adjusted SWL	Depth to Top of Sparge Screen (Ft)	Minus	Adjusted SWL	Times	Calculation to Determine Aml. PSI Needed	Equals	Wellhead Pressure Needed to Overcome Water Column
AS-1		-		=		51.37	-	42.37	X	0.434	=	3.91
AS-2		-		=		58	-		X	0.434	=	6.78
AS-3		-		=		53.9	-		X	0.434	=	5.0
AS-4		-		=		58	-		X	0.434	=	6.78
AS-5		-		=		56.27	-		X	0.434	=	6.03

Measurements Collected By T. DoranDate Measurements Collected 2-23-17

Comments

Supplement 3:

**TestAmerica Data for Argonne's Twice-Yearly Soil Gas Sampling
on March 6-8, 2017**

ANALYTICAL REPORT

Job Number: 200-37699-1
SDG Number: Agra, KS (37699)
Job Description: Agra, KS (37699)
Contract Number: 6E-30541
For:
Argonne National Laboratory
9700 South Cass Avenue
Building 203
Office B-141
Argonne, IL 60439
Attention: Ms. Esther Bowen

Approved for release.
James W Madison
Senior Project Manager
3/21/2017 10:37 AM

Designee for
Kathryn A Kelly, Project Manager I
30 Community Drive, South Burlington, VT, 05403
kathryn.kelly@testamericainc.com
03/21/2017

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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CASE NARRATIVE

Client: Argonne National Laboratory

Project: Agra, KS (37699)

Report Number: 200-37699-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/09/2017; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples AGSG1S-G-39730, AGSG1D-G-39731, AGSG2S-G-39732, AGSG2D-G-39733, AGSG3S-G-39734, AGSG3D-G-39735, AGSG3DUP-G-39736 and AGBKGD-G-39737 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/13/2017 and 03/14/2017.

The concentration of Tetrahydrofuran in the following samples exceeded the calibration range of the instrument: 200-37699-A-1, -5, -7. The concentrations of Acetone and Tetrahydrofuran in sample 200-37699-A-6 exceeded the calibration range of the instrument.

Samples AGSG1S-G-39730[10X], AGSG1D-G-39731[10X], AGSG2S-G-39732[10X], AGSG2D-G-39733[10X], AGSG3S-G-39734[10X], AGSG3D-G-39735[10X], AGSG3DUP-G-39736[10X] and AGBKGD-G-39737[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)Instrument ID: CHW.i Analysis Batch Number: 114220Lab Sample ID: IC 200-114220/6 Client Sample ID: _____Date Analyzed: 02/18/17 16:27 Lab File ID: 23991_06.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	6.34	Baseline	daiglep	02/21/17 11:16
1,3-Butadiene	6.45	Incomplete Integration	guazzonig	02/20/17 09:09
1,1-Dichloroethane	11.21	Baseline	daiglep	02/21/17 11:16
1,1,1-Trichloroethane	13.02	Baseline	daiglep	02/21/17 11:16
Trichloroethene	14.78	Incomplete Integration	guazzonig	02/20/17 09:09
Tetrachloroethene	18.12	Baseline	daiglep	02/21/17 11:16

Lab Sample ID: IC 200-114220/7 Client Sample ID: _____Date Analyzed: 02/18/17 17:20 Lab File ID: 23991_07.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	5.98	Baseline	daiglep	02/21/17 11:18
n-Butane	6.24	Baseline	daiglep	02/21/17 11:18
Methyl tert-butyl ether	10.35	Baseline	daiglep	02/21/17 11:18
Acrylonitrile	10.53	Incomplete Integration	guazzonig	02/20/17 09:15
Cyclohexane	13.00	Incomplete Integration	guazzonig	02/20/17 09:15
Benzene	13.66	Incomplete Integration	guazzonig	02/20/17 09:15
trans-1,3-Dichloropropene	17.64	Baseline	daiglep	02/21/17 11:18

Lab Sample ID: IC 200-114220/8 Client Sample ID: _____Date Analyzed: 02/18/17 18:13 Lab File ID: 23991_08.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 22	5.46	Baseline	daiglep	02/21/17 11:20
n-Butane	6.24	Baseline	daiglep	02/21/17 11:20
1,1,1-Trichloroethane	13.01	Baseline	daiglep	02/21/17 11:20
1,2,4-Trichlorobenzene	27.03	Baseline	daiglep	02/21/17 11:20
Naphthalene	27.60	Baseline	daiglep	02/21/17 11:20

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)Instrument ID: CHW.i Analysis Batch Number: 114220Lab Sample ID: IC 200-114220/9 Client Sample ID: _____Date Analyzed: 02/18/17 19:05 Lab File ID: 23991_09.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Styrene	21.05	Incomplete Integration	guazzonig	02/20/17 09:32

Lab Sample ID: ICIS 200-114220/10 Client Sample ID: _____Date Analyzed: 02/18/17 19:59 Lab File ID: 23991_10.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Styrene	21.05	Incomplete Integration	guazzonig	02/20/17 08:53

Lab Sample ID: IC 200-114220/11 Client Sample ID: _____Date Analyzed: 02/18/17 20:51 Lab File ID: 23991_11.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Styrene	21.05	Incomplete Integration	guazzonig	02/20/17 09:31

Lab Sample ID: IC 200-114220/12 Client Sample ID: _____Date Analyzed: 02/18/17 21:44 Lab File ID: 23991_12.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Styrene	21.05	Incomplete Integration	guazzonig	02/20/17 09:31

Lab Sample ID: IC 200-114220/13 Client Sample ID: _____Date Analyzed: 02/18/17 22:37 Lab File ID: 23991_13.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Styrene	21.05	Incomplete Integration	guazzonig	02/20/17 09:31

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)Instrument ID: CHW.i Analysis Batch Number: 114860Lab Sample ID: MB 200-114860/4 Client Sample ID: _____Date Analyzed: 03/13/17 13:20 Lab File ID: 24297_04.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dichlorobenzene	23.57	Assign Peak	puangmale ek	03/14/17 10:28

Lab Sample ID: 200-37699-1 Client Sample ID: AGSG1S-G-39730Date Analyzed: 03/13/17 14:31 Lab File ID: 24297_05.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	5.39	Assign Peak	puangmale ek	03/14/17 10:32
Chloromethane	6.00	Assign Peak	puangmale ek	03/14/17 10:32

Lab Sample ID: 200-37699-2 Client Sample ID: AGSG1D-G-39731Date Analyzed: 03/13/17 16:07 Lab File ID: 24297_07.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	6.00	Assign Peak	puangmale ek	03/14/17 10:36
Tetrachloroethene	18.12	Assign Peak	puangmale ek	03/14/17 10:36
Xylene, o-	20.99	Assign Peak	puangmale ek	03/14/17 10:36

Lab Sample ID: 200-37699-4 Client Sample ID: AGSG2D-G-39733Date Analyzed: 03/13/17 17:46 Lab File ID: 24297_09.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toluene	17.10	Assign Peak	puangmale ek	03/14/17 10:45

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)Instrument ID: CHW.i Analysis Batch Number: 114860Lab Sample ID: 200-37699-5 Client Sample ID: AGSG3S-G-39734Date Analyzed: 03/13/17 18:35 Lab File ID: 24297_10.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	5.38	Assign Peak	puangmale ek	03/14/17 10:49
Carbon tetrachloride	13.23	Assign Peak	puangmale ek	03/14/17 10:49

Lab Sample ID: 200-37699-6 Client Sample ID: AGSG3D-G-39735Date Analyzed: 03/13/17 19:24 Lab File ID: 24297_11.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	20.03	Assign Peak	puangmale ek	03/14/17 10:52
Xylene, o-	21.00	Assign Peak	puangmale ek	03/14/17 10:52

Lab Sample ID: 200-37699-7 Client Sample ID: AGSG3DUP-G-39736Date Analyzed: 03/13/17 20:13 Lab File ID: 24297_12.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Xylene, o-	21.01	Assign Peak	puangmale ek	03/14/17 10:54
1,2,4-Trimethylbenzene	23.08	Assign Peak	puangmale ek	03/14/17 10:54

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)Instrument ID: CHW.i Analysis Batch Number: 114860Lab Sample ID: 200-37699-8 Client Sample ID: AGBKGD-G-39737Date Analyzed: 03/13/17 21:03 Lab File ID: 24297_13.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	5.39	Assign Peak	puangmale ek	03/14/17 10:59
Chloromethane	6.00	Assign Peak	puangmale ek	03/14/17 10:59

Lab Sample ID: 200-37699-3 Client Sample ID: AGSG2S-G-39732Date Analyzed: 03/14/17 09:41 Lab File ID: 24297_25.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toluene	17.10	Assign Peak	puangmale ek	03/15/17 08:05
Tetrachloroethene	18.10	Assign Peak	puangmale ek	03/15/17 08:06

SAMPLE SUMMARY

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-37699-1	AGSG1S-G-39730	Air	03/08/2017 1158	03/09/2017 1040
200-37699-2	AGSG1D-G-39731	Air	03/08/2017 1214	03/09/2017 1040
200-37699-3	AGSG2S-G-39732	Air	03/08/2017 1218	03/09/2017 1040
200-37699-4	AGSG2D-G-39733	Air	03/08/2017 1241	03/09/2017 1040
200-37699-5	AGSG3S-G-39734	Air	03/08/2017 1233	03/09/2017 1040
200-37699-6	AGSG3D-G-39735	Air	03/08/2017 1321	03/09/2017 1040
200-37699-7	AGSG3DUP-G-39736	Air	03/08/2017 1332	03/09/2017 1040
200-37699-8	AGBKGD-G-39737	Air	03/08/2017 1324	03/09/2017 1040

METHOD SUMMARY

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Method	Analyst	Analyst ID
EPA TO-15	Puangmalee, Kesanee 1	K1P

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1S-G-39730

Lab Sample ID: 200-37699-1
Client Matrix: Air

Date Sampled: 03/08/2017 1158
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_05.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1431			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1431			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.0	U	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	3.0	J	1.6	5.0
n-Butane	6.3		0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	26	J	13	50
Isopropyl alcohol	2.9	J	1.3	50
Carbon disulfide	8.1		0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	5.0	U	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	0.52	J	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	5.0	U	1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	720	E	12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	0.24	J	0.11	2.0
2,2,4-Trimethylpentane	2.0	U	0.43	2.0
Benzene	8.0		0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	0.44	J	0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	42		0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1S-G-39730

Lab Sample ID: 200-37699-1
Client Matrix: Air

Date Sampled: 03/08/2017 1158
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_05.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1431			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1431			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	5.0	U	0.77	5.0
Xylene, o-	2.0	U	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	2.0		0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	25	U	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	6.2	J	3.3	10
n-Butane	15		1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	62	J	31	120
Isopropyl alcohol	7.1	J	3.2	120
Carbon disulfide	25		0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	17	U	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1S-G-39730

Lab Sample ID: 200-37699-1
Client Matrix: Air

Date Sampled: 03/08/2017 1158
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_05.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1431			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1431			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	1.8	J	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	15	U	3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	2100	E	35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	1.5	J	0.69	13
2,2,4-Trimethylpentane	9.3	U	2.0	9.3
Benzene	26		0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	1.7	J	1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	290		0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	22	U	3.3	22
Xylene, o-	8.7	U	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	10		1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1S-G-39730

Lab Sample ID: 200-37699-1
Client Matrix: Air

Date Sampled: 03/08/2017 1158
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_05.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1431			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1431			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1D-G-39731

Lab Sample ID: 200-37699-2
Client Matrix: Air

Date Sampled: 03/08/2017 1214
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_07.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1607			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1607			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.0	U	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	5.1		1.6	5.0
n-Butane	12		0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	16	J	13	50
Isopropyl alcohol	50	U	1.3	50
Carbon disulfide	30		0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	5.0	U	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	1.5	J	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	3.1	J	1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	12	J	12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	0.79	J	0.11	2.0
2,2,4-Trimethylpentane	2.0	U	0.43	2.0
Benzene	25		0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	0.78	J	0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	0.62	J	0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1D-G-39731

Lab Sample ID: 200-37699-2
Client Matrix: Air

Date Sampled: 03/08/2017 1214
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_07.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1607			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1607			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	5.0	U	0.77	5.0
Xylene, o-	2.0	U	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	2.7		0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	25	U	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	11		3.3	10
n-Butane	28		1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	39	J	31	120
Isopropyl alcohol	120	U	3.2	120
Carbon disulfide	94		0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	17	U	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1D-G-39731

Lab Sample ID: 200-37699-2
Client Matrix: Air

Date Sampled: 03/08/2017 1214
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_07.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1607			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1607			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	5.4	J	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	9.3	J	3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	35	J	35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	5.0	J	0.69	13
2,2,4-Trimethylpentane	9.3	U	2.0	9.3
Benzene	81		0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	2.9	J	1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	4.2	J	0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	22	U	3.3	22
Xylene, o-	8.7	U	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	13		1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG1D-G-39731

Lab Sample ID: 200-37699-2
Client Matrix: Air

Date Sampled: 03/08/2017 1214
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_07.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1607			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1607			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2S-G-39732

Lab Sample ID: 200-37699-3
Client Matrix: Air

Date Sampled: 03/08/2017 1218
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_25.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2017 0941			Final Weight/Volume:	200 mL
Prep Date:	03/14/2017 0941			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.53	J	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	2.9	J	1.6	5.0
n-Butane	5.8		0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	38	J	13	50
Isopropyl alcohol	3.2	J	1.3	50
Carbon disulfide	6.1		0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	5.0	U	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	2.0	U	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	16		1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	220		12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	2.0	U	0.11	2.0
2,2,4-Trimethylpentane	2.0	U	0.43	2.0
Benzene	6.5		0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	0.42	J	0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	0.38	J	0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2S-G-39732

Lab Sample ID: 200-37699-3
Client Matrix: Air

Date Sampled: 03/08/2017 1218
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_25.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2017 0941			Final Weight/Volume:	200 mL
Prep Date:	03/14/2017 0941			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	5.0	U	0.77	5.0
Xylene, o-	2.0	U	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	5.2		0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.6	J	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	6.0	J	3.3	10
n-Butane	14		1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	89	J	31	120
Isopropyl alcohol	7.8	J	3.2	120
Carbon disulfide	19		0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	17	U	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2S-G-39732

Lab Sample ID: 200-37699-3
Client Matrix: Air

Date Sampled: 03/08/2017 1218
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_25.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2017 0941			Final Weight/Volume:	200 mL
Prep Date:	03/14/2017 0941			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	7.0	U	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	48		3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	650		35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	13	U	0.69	13
2,2,4-Trimethylpentane	9.3	U	2.0	9.3
Benzene	21		0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	1.6	J	1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	2.6	J	0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	22	U	3.3	22
Xylene, o-	8.7	U	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	26		1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2S-G-39732

Lab Sample ID: 200-37699-3
Client Matrix: Air

Date Sampled: 03/08/2017 1218
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_25.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/14/2017 0941			Final Weight/Volume:	200 mL
Prep Date:	03/14/2017 0941			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2D-G-39733

Lab Sample ID: 200-37699-4
Client Matrix: Air

Date Sampled: 03/08/2017 1241
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_09.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1746			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1746			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.53	J	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	5.0	U	1.6	5.0
n-Butane	3.5	J	0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	21	J	13	50
Isopropyl alcohol	3.0	J	1.3	50
Carbon disulfide	5.0	U	0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	0.75	J	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	2.0	U	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	4.1	J	1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	50	U	12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	2.0	U	0.11	2.0
2,2,4-Trimethylpentane	2.0	U	0.43	2.0
Benzene	2.4		0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	2.0	U	0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	2.0	U	0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2D-G-39733

Lab Sample ID: 200-37699-4
Client Matrix: Air

Date Sampled: 03/08/2017 1241
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_09.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1746			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1746			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	5.0	U	0.77	5.0
Xylene, o-	2.0	U	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	1.5	J	0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.6	J	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	10	U	3.3	10
n-Butane	8.3	J	1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	51	J	31	120
Isopropyl alcohol	7.3	J	3.2	120
Carbon disulfide	16	U	0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	2.6	J	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2D-G-39733

Lab Sample ID: 200-37699-4
Client Matrix: Air

Date Sampled: 03/08/2017 1241
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_09.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1746			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1746			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	7.0	U	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	12	J	3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	150	U	35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	13	U	0.69	13
2,2,4-Trimethylpentane	9.3	U	2.0	9.3
Benzene	7.8		0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	7.5	U	1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	14	U	0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	22	U	3.3	22
Xylene, o-	8.7	U	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	7.3	J	1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG2D-G-39733

Lab Sample ID: 200-37699-4
Client Matrix: Air

Date Sampled: 03/08/2017 1241
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_09.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1746			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1746			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3S-G-39734

Lab Sample ID: 200-37699-5
Client Matrix: Air

Date Sampled: 03/08/2017 1233
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_10.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1835			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1835			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.48	J	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	3.2	J	1.6	5.0
n-Butane	9.6		0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	29	J	13	50
Isopropyl alcohol	3.9	J	1.3	50
Carbon disulfide	12		0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	5.0	U	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	0.93	J	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	5.0	U	1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	450	E	12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	0.21	J	0.11	2.0
2,2,4-Trimethylpentane	2.0	U	0.43	2.0
Benzene	5.3		0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	0.65	J	0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	2.0	U	0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3S-G-39734

Lab Sample ID: 200-37699-5
Client Matrix: Air

Date Sampled: 03/08/2017 1233
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_10.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1835			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1835			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	5.0	U	0.77	5.0
Xylene, o-	2.0	U	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	1.2	J	0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.4	J	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	6.6	J	3.3	10
n-Butane	23		1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	68	J	31	120
Isopropyl alcohol	9.5	J	3.2	120
Carbon disulfide	39		0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	17	U	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3S-G-39734

Lab Sample ID: 200-37699-5
Client Matrix: Air

Date Sampled: 03/08/2017 1233
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_10.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1835			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1835			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	3.3	J	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	15	U	3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	1300	E	35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	1.3	J	0.69	13
2,2,4-Trimethylpentane	9.3	U	2.0	9.3
Benzene	17		0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	2.4	J	1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	14	U	0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	22	U	3.3	22
Xylene, o-	8.7	U	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	5.7	J	1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3S-G-39734

Lab Sample ID: 200-37699-5
Client Matrix: Air

Date Sampled: 03/08/2017 1233
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_10.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1835			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1835			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3D-G-39735

Lab Sample ID: 200-37699-6
Client Matrix: Air

Date Sampled: 03/08/2017 1321
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_11.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1924			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1924			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	5.0	U	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	13		1.6	5.0
n-Butane	12		0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	490	E	13	50
Isopropyl alcohol	36	J	1.3	50
Carbon disulfide	81		0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	5.0	U	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	2.0	U	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	5.0	U	1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	4000	E	12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	1.8	J	0.11	2.0
2,2,4-Trimethylpentane	0.81	J	0.43	2.0
Benzene	12		0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	120		0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	2.0	U	0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3D-G-39735

Lab Sample ID: 200-37699-6
Client Matrix: Air

Date Sampled: 03/08/2017 1321
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_11.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1924			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1924			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	1.1	J	0.77	5.0
Xylene, o-	2.0	U	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	4.0		0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	25	U	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	27		3.3	10
n-Butane	28		1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	1200	E	31	120
Isopropyl alcohol	89	J	3.2	120
Carbon disulfide	250		0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	17	U	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3D-G-39735

Lab Sample ID: 200-37699-6
Client Matrix: Air

Date Sampled: 03/08/2017 1321
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_11.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1924			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1924			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	7.0	U	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	15	U	3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	12000	E	35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	11	J	0.69	13
2,2,4-Trimethylpentane	3.8	J	2.0	9.3
Benzene	38		0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	450		1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	14	U	0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	4.7	J	3.3	22
Xylene, o-	8.7	U	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	20		1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3D-G-39735

Lab Sample ID: 200-37699-6
Client Matrix: Air

Date Sampled: 03/08/2017 1321
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_11.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 1924			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1924			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3DUP-G-39736

Lab Sample ID: 200-37699-7
Client Matrix: Air

Date Sampled: 03/08/2017 1332
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_12.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2013			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2013			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.54	J	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	11		1.6	5.0
n-Butane	10		0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	150		13	50
Isopropyl alcohol	41	J	1.3	50
Carbon disulfide	73		0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	5.0	U	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	2.0	U	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	5.0	U	1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	3500	E	12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	1.9	J	0.11	2.0
2,2,4-Trimethylpentane	0.74	J	0.43	2.0
Benzene	1.9	J	0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	130		0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	2.0	U	0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3DUP-G-39736

Lab Sample ID: 200-37699-7
Client Matrix: Air

Date Sampled: 03/08/2017 1332
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_12.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2013			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2013			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	1.2	J	0.77	5.0
Xylene, o-	0.44	J	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	0.88	J	0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.6	J	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	23		3.3	10
n-Butane	24		1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	360		31	120
Isopropyl alcohol	100	J	3.2	120
Carbon disulfide	230		0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	17	U	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3DUP-G-39736

Lab Sample ID: 200-37699-7
Client Matrix: Air

Date Sampled: 03/08/2017 1332
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_12.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2013			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2013			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	7.0	U	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	15	U	3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	10000	E	35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	12	J	0.69	13
2,2,4-Trimethylpentane	3.5	J	2.0	9.3
Benzene	6.0	J	0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	480		1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	14	U	0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	5.2	J	3.3	22
Xylene, o-	1.9	J	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	4.3	J	1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGSG3DUP-G-39736

Lab Sample ID: 200-37699-7
Client Matrix: Air

Date Sampled: 03/08/2017 1332
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_12.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2013			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2013			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGBKGD-G-39737

Lab Sample ID: 200-37699-8
Client Matrix: Air

Date Sampled: 03/08/2017 1324
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_13.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2103			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2103			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dichlorodifluoromethane	0.55	J	0.47	5.0
Freon 22	5.0	U	2.0	5.0
1,2-Dichlorotetrafluoroethane	2.0	U	0.41	2.0
Chloromethane	5.0	U	1.6	5.0
n-Butane	4.1	J	0.46	5.0
Vinyl chloride	2.0	U	0.18	2.0
1,3-Butadiene	2.0	U	0.37	2.0
Bromomethane	2.0	U	0.36	2.0
Chloroethane	5.0	U	1.3	5.0
Bromoethene(Vinyl Bromide)	2.0	U	0.22	2.0
Trichlorofluoromethane	2.0	U	0.31	2.0
Freon TF	2.0	U	0.27	2.0
1,1-Dichloroethene	2.0	U	0.35	2.0
Acetone	50	U	13	50
Isopropyl alcohol	4.4	J	1.3	50
Carbon disulfide	5.0	U	0.28	5.0
3-Chloropropene	5.0	U	0.63	5.0
Methylene Chloride	5.0	U	0.68	5.0
tert-Butyl alcohol	50	U	17	50
Methyl tert-butyl ether	2.0	U	0.41	2.0
trans-1,2-Dichloroethene	2.0	U	0.50	2.0
n-Hexane	2.0	U	0.46	2.0
1,1-Dichloroethane	2.0	U	0.17	2.0
Methyl Ethyl Ketone	3.7	J	1.1	5.0
cis-1,2-Dichloroethene	2.0	U	0.29	2.0
Chloroform	2.0	U	0.25	2.0
Tetrahydrofuran	50	U	12	50
1,1,1-Trichloroethane	2.0	U	0.26	2.0
Cyclohexane	2.0	U	0.45	2.0
Carbon tetrachloride	2.0	U	0.11	2.0
2,2,4-Trimethylpentane	2.0	U	0.43	2.0
Benzene	2.0	U	0.28	2.0
1,2-Dichloroethane	2.0	U	0.34	2.0
n-Heptane	2.0	U	0.68	2.0
Trichloroethene	2.0	U	0.091	2.0
Methyl methacrylate	5.0	U	1.1	5.0
1,2-Dichloropropane	2.0	U	0.35	2.0
1,4-Dioxane	50	U	7.6	50
Bromodichloromethane	2.0	U	0.59	2.0
cis-1,3-Dichloropropene	2.0	U	0.36	2.0
methyl isobutyl ketone	5.0	U	0.65	5.0
Toluene	0.42	J	0.35	2.0
trans-1,3-Dichloropropene	2.0	U	0.38	2.0
1,1,2-Trichloroethane	2.0	U	0.17	2.0
Tetrachloroethene	2.0	U	0.098	2.0
Methyl Butyl Ketone (2-Hexanone)	5.0	U	0.86	5.0

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGBKGD-G-39737

Lab Sample ID: 200-37699-8
Client Matrix: Air

Date Sampled: 03/08/2017 1324
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_13.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2103			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2103			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Dibromochloromethane	2.0	U	0.17	2.0
1,2-Dibromoethane	2.0	U	0.23	2.0
Chlorobenzene	2.0	U	0.25	2.0
Ethylbenzene	2.0	U	0.34	2.0
m,p-Xylene	5.0	U	0.77	5.0
Xylene, o-	2.0	U	0.40	2.0
Styrene	2.0	U	0.35	2.0
Bromoform	2.0	U	0.35	2.0
Cumene	2.0	U	0.39	2.0
1,1,2,2-Tetrachloroethane	2.0	U	0.26	2.0
n-Propylbenzene	2.0	U	0.40	2.0
4-Ethyltoluene	2.0	U	0.40	2.0
1,3,5-Trimethylbenzene	2.0	U	0.40	2.0
2-Chlorotoluene	2.0	U	0.35	2.0
tert-Butylbenzene	2.0	U	0.37	2.0
1,2,4-Trimethylbenzene	2.0	U	0.57	2.0
sec-Butylbenzene	2.0	U	0.37	2.0
4-Isopropyltoluene	2.0	U	0.52	2.0
1,3-Dichlorobenzene	2.0	U	0.50	2.0
1,4-Dichlorobenzene	2.0	U	0.63	2.0
Benzyl chloride	2.0	U	0.67	2.0
n-Butylbenzene	2.0	U	0.68	2.0
1,2-Dichlorobenzene	2.0	U	0.45	2.0
1,2,4-Trichlorobenzene	5.0	U	1.9	5.0
Hexachlorobutadiene	2.0	U	0.64	2.0
Naphthalene	5.0	U	1.0	5.0

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Dichlorodifluoromethane	2.7	J	2.3	25
Freon 22	18	U	7.1	18
1,2-Dichlorotetrafluoroethane	14	U	2.9	14
Chloromethane	10	U	3.3	10
n-Butane	9.8	J	1.1	12
Vinyl chloride	5.1	U	0.46	5.1
1,3-Butadiene	4.4	U	0.82	4.4
Bromomethane	7.8	U	1.4	7.8
Chloroethane	13	U	3.4	13
Bromoethene(Vinyl Bromide)	8.7	U	0.96	8.7
Trichlorofluoromethane	11	U	1.7	11
Freon TF	15	U	2.1	15
1,1-Dichloroethene	7.9	U	1.4	7.9
Acetone	120	U	31	120
Isopropyl alcohol	11	J	3.2	120
Carbon disulfide	16	U	0.87	16
3-Chloropropene	16	U	2.0	16
Methylene Chloride	17	U	2.4	17

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: AGBKGD-G-39737

Lab Sample ID: 200-37699-8
Client Matrix: Air

Date Sampled: 03/08/2017 1324
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_13.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2103			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2103			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
tert-Butyl alcohol	150	U	52	150
Methyl tert-butyl ether	7.2	U	1.5	7.2
trans-1,2-Dichloroethene	7.9	U	2.0	7.9
n-Hexane	7.0	U	1.6	7.0
1,1-Dichloroethane	8.1	U	0.69	8.1
Methyl Ethyl Ketone	11	J	3.2	15
cis-1,2-Dichloroethene	7.9	U	1.1	7.9
Chloroform	9.8	U	1.2	9.8
Tetrahydrofuran	150	U	35	150
1,1,1-Trichloroethane	11	U	1.4	11
Cyclohexane	6.9	U	1.5	6.9
Carbon tetrachloride	13	U	0.69	13
2,2,4-Trimethylpentane	9.3	U	2.0	9.3
Benzene	6.4	U	0.89	6.4
1,2-Dichloroethane	8.1	U	1.4	8.1
n-Heptane	8.2	U	2.8	8.2
Trichloroethene	11	U	0.49	11
Methyl methacrylate	20	U	4.5	20
1,2-Dichloropropane	9.2	U	1.6	9.2
1,4-Dioxane	180	U	27	180
Bromodichloromethane	13	U	4.0	13
cis-1,3-Dichloropropene	9.1	U	1.6	9.1
methyl isobutyl ketone	20	U	2.7	20
Toluene	1.6	J	1.3	7.5
trans-1,3-Dichloropropene	9.1	U	1.7	9.1
1,1,2-Trichloroethane	11	U	0.93	11
Tetrachloroethene	14	U	0.66	14
Methyl Butyl Ketone (2-Hexanone)	20	U	3.5	20
Dibromochloromethane	17	U	1.4	17
1,2-Dibromoethane	15	U	1.8	15
Chlorobenzene	9.2	U	1.2	9.2
Ethylbenzene	8.7	U	1.5	8.7
m,p-Xylene	22	U	3.3	22
Xylene, o-	8.7	U	1.7	8.7
Styrene	8.5	U	1.5	8.5
Bromoform	21	U	3.6	21
Cumene	9.8	U	1.9	9.8
1,1,2,2-Tetrachloroethane	14	U	1.8	14
n-Propylbenzene	9.8	U	2.0	9.8
4-Ethyltoluene	9.8	U	2.0	9.8
1,3,5-Trimethylbenzene	9.8	U	2.0	9.8
2-Chlorotoluene	10	U	1.8	10
tert-Butylbenzene	11	U	2.0	11
1,2,4-Trimethylbenzene	9.8	U	2.8	9.8
sec-Butylbenzene	11	U	2.0	11
4-Isopropyltoluene	11	U	2.9	11

Analytical Data

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Client Sample ID: **AGBKGD-G-39737**

Lab Sample ID: 200-37699-8
Client Matrix: Air

Date Sampled: 03/08/2017 1324
Date Received: 03/09/2017 1040

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	24297_13.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	03/13/2017 2103			Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 2103			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	MDL	RL
1,3-Dichlorobenzene	12	U	3.0	12
1,4-Dichlorobenzene	12	U	3.8	12
Benzyl chloride	10	U	3.5	10
n-Butylbenzene	11	U	3.7	11
1,2-Dichlorobenzene	12	U	2.7	12
1,2,4-Trichlorobenzene	37	U	14	37
Hexachlorobutadiene	21	U	6.8	21
Naphthalene	26	U	5.2	26

Quality Control Results

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Method Blank - Batch: 200-114860

Method: TO-15

Preparation: Summa Canister

Lab Sample ID: MB 200-114860/4
Client Matrix: Air
Dilution: 1.0
Analysis Date: 03/13/2017 1320
Prep Date: 03/13/2017 1320
Leach Date: N/A

Analysis Batch: 200-114860
Prep Batch: N/A
Leach Batch: N/A
Units: ppb v/v

Instrument ID: CHW.i
Lab File ID: 24297_04.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	0.50	U	0.047	0.50
Freon 22	0.50	U	0.20	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.041	0.20
Chloromethane	0.50	U	0.16	0.50
n-Butane	0.50	U	0.046	0.50
Vinyl chloride	0.20	U	0.018	0.20
1,3-Butadiene	0.20	U	0.037	0.20
Bromomethane	0.20	U	0.036	0.20
Chloroethane	0.50	U	0.13	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.022	0.20
Trichlorofluoromethane	0.20	U	0.031	0.20
Freon TF	0.20	U	0.027	0.20
1,1-Dichloroethene	0.20	U	0.035	0.20
Acetone	5.0	U	1.3	5.0
Isopropyl alcohol	5.0	U	0.13	5.0
Carbon disulfide	0.50	U	0.028	0.50
3-Chloropropene	0.50	U	0.063	0.50
Methylene Chloride	0.50	U	0.068	0.50
tert-Butyl alcohol	5.0	U	1.7	5.0
Methyl tert-butyl ether	0.20	U	0.041	0.20
trans-1,2-Dichloroethene	0.20	U	0.050	0.20
n-Hexane	0.20	U	0.046	0.20
1,1-Dichloroethane	0.20	U	0.017	0.20
Methyl Ethyl Ketone	0.50	U	0.11	0.50
cis-1,2-Dichloroethene	0.20	U	0.029	0.20
Chloroform	0.20	U	0.025	0.20
Tetrahydrofuran	5.0	U	1.2	5.0
1,1,1-Trichloroethane	0.20	U	0.026	0.20
Cyclohexane	0.20	U	0.045	0.20
Carbon tetrachloride	0.20	U	0.011	0.20
2,2,4-Trimethylpentane	0.20	U	0.043	0.20
Benzene	0.20	U	0.028	0.20
1,2-Dichloroethane	0.20	U	0.034	0.20
n-Heptane	0.20	U	0.068	0.20
Trichloroethene	0.20	U	0.0091	0.20
Methyl methacrylate	0.50	U	0.11	0.50
1,2-Dichloropropane	0.20	U	0.035	0.20
1,4-Dioxane	5.0	U	0.76	5.0
Bromodichloromethane	0.20	U	0.059	0.20
cis-1,3-Dichloropropene	0.20	U	0.036	0.20
methyl isobutyl ketone	0.50	U	0.065	0.50
Toluene	0.20	U	0.035	0.20
trans-1,3-Dichloropropene	0.20	U	0.038	0.20
1,1,2-Trichloroethane	0.20	U	0.017	0.20
Tetrachloroethene	0.20	U	0.0098	0.20

Quality Control Results

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Method Blank - Batch: 200-114860

Method: TO-15

Preparation: Summa Canister

Lab Sample ID: MB 200-114860/4
Client Matrix: Air
Dilution: 1.0
Analysis Date: 03/13/2017 1320
Prep Date: 03/13/2017 1320
Leach Date: N/A

Analysis Batch: 200-114860
Prep Batch: N/A
Leach Batch: N/A
Units: ppb v/v

Instrument ID: CHW.i
Lab File ID: 24297_04.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.086	0.50
Dibromochloromethane	0.20	U	0.017	0.20
1,2-Dibromoethane	0.20	U	0.023	0.20
Chlorobenzene	0.20	U	0.025	0.20
Ethylbenzene	0.20	U	0.034	0.20
m,p-Xylene	0.50	U	0.077	0.50
Xylene, o-	0.20	U	0.040	0.20
Styrene	0.20	U	0.035	0.20
Bromoform	0.20	U	0.035	0.20
Cumene	0.20	U	0.039	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.026	0.20
n-Propylbenzene	0.20	U	0.040	0.20
4-Ethyltoluene	0.20	U	0.040	0.20
1,3,5-Trimethylbenzene	0.20	U	0.040	0.20
2-Chlorotoluene	0.20	U	0.035	0.20
tert-Butylbenzene	0.20	U	0.037	0.20
1,2,4-Trimethylbenzene	0.20	U	0.057	0.20
sec-Butylbenzene	0.20	U	0.037	0.20
4-Isopropyltoluene	0.20	U	0.052	0.20
1,3-Dichlorobenzene	0.20	U	0.050	0.20
1,4-Dichlorobenzene	0.20	U	0.063	0.20
Benzyl chloride	0.20	U	0.067	0.20
n-Butylbenzene	0.20	U	0.068	0.20
1,2-Dichlorobenzene	0.20	U	0.045	0.20
1,2,4-Trichlorobenzene	0.50	U	0.19	0.50
Hexachlorobutadiene	0.20	U	0.064	0.20
Naphthalene	0.50	U	0.10	0.50

Quality Control Results

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Method Blank - Batch: 200-114860

Method: TO-15

Preparation: Summa Canister

Lab Sample ID: MB 200-114860/4
Client Matrix: Air
Dilution: 1.0
Analysis Date: 03/13/2017 1320
Prep Date: 03/13/2017 1320
Leach Date: N/A

Analysis Batch: 200-114860
Prep Batch: N/A
Leach Batch: N/A
Units: ug/m3

Instrument ID: CHW.i
Lab File ID: 24297_04.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	2.5	U	0.23	2.5
Freon 22	1.8	U	0.71	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	0.29	1.4
Chloromethane	1.0	U	0.33	1.0
n-Butane	1.2	U	0.11	1.2
Vinyl chloride	0.51	U	0.046	0.51
1,3-Butadiene	0.44	U	0.082	0.44
Bromomethane	0.78	U	0.14	0.78
Chloroethane	1.3	U	0.34	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.096	0.87
Trichlorofluoromethane	1.1	U	0.17	1.1
Freon TF	1.5	U	0.21	1.5
1,1-Dichloroethene	0.79	U	0.14	0.79
Acetone	12	U	3.1	12
Isopropyl alcohol	12	U	0.32	12
Carbon disulfide	1.6	U	0.087	1.6
3-Chloropropene	1.6	U	0.20	1.6
Methylene Chloride	1.7	U	0.24	1.7
tert-Butyl alcohol	15	U	5.2	15
Methyl tert-butyl ether	0.72	U	0.15	0.72
trans-1,2-Dichloroethene	0.79	U	0.20	0.79
n-Hexane	0.70	U	0.16	0.70
1,1-Dichloroethane	0.81	U	0.069	0.81
Methyl Ethyl Ketone	1.5	U	0.32	1.5
cis-1,2-Dichloroethene	0.79	U	0.11	0.79
Chloroform	0.98	U	0.12	0.98
Tetrahydrofuran	15	U	3.5	15
1,1,1-Trichloroethane	1.1	U	0.14	1.1
Cyclohexane	0.69	U	0.15	0.69
Carbon tetrachloride	1.3	U	0.069	1.3
2,2,4-Trimethylpentane	0.93	U	0.20	0.93
Benzene	0.64	U	0.089	0.64
1,2-Dichloroethane	0.81	U	0.14	0.81
n-Heptane	0.82	U	0.28	0.82
Trichloroethene	1.1	U	0.049	1.1
Methyl methacrylate	2.0	U	0.45	2.0
1,2-Dichloropropane	0.92	U	0.16	0.92
1,4-Dioxane	18	U	2.7	18
Bromodichloromethane	1.3	U	0.40	1.3
cis-1,3-Dichloropropene	0.91	U	0.16	0.91
methyl isobutyl ketone	2.0	U	0.27	2.0
Toluene	0.75	U	0.13	0.75
trans-1,3-Dichloropropene	0.91	U	0.17	0.91
1,1,2-Trichloroethane	1.1	U	0.093	1.1
Tetrachloroethene	1.4	U	0.066	1.4

Quality Control Results

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Method Blank - Batch: 200-114860

Method: TO-15

Preparation: Summa Canister

Lab Sample ID: MB 200-114860/4
Client Matrix: Air
Dilution: 1.0
Analysis Date: 03/13/2017 1320
Prep Date: 03/13/2017 1320
Leach Date: N/A

Analysis Batch: 200-114860
Prep Batch: N/A
Leach Batch: N/A
Units: ug/m3

Instrument ID: CHW.i
Lab File ID: 24297_04.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	0.35	2.0
Dibromochloromethane	1.7	U	0.14	1.7
1,2-Dibromoethane	1.5	U	0.18	1.5
Chlorobenzene	0.92	U	0.12	0.92
Ethylbenzene	0.87	U	0.15	0.87
m,p-Xylene	2.2	U	0.33	2.2
Xylene, o-	0.87	U	0.17	0.87
Styrene	0.85	U	0.15	0.85
Bromoform	2.1	U	0.36	2.1
Cumene	0.98	U	0.19	0.98
1,1,2,2-Tetrachloroethane	1.4	U	0.18	1.4
n-Propylbenzene	0.98	U	0.20	0.98
4-Ethyltoluene	0.98	U	0.20	0.98
1,3,5-Trimethylbenzene	0.98	U	0.20	0.98
2-Chlorotoluene	1.0	U	0.18	1.0
tert-Butylbenzene	1.1	U	0.20	1.1
1,2,4-Trimethylbenzene	0.98	U	0.28	0.98
sec-Butylbenzene	1.1	U	0.20	1.1
4-Isopropyltoluene	1.1	U	0.29	1.1
1,3-Dichlorobenzene	1.2	U	0.30	1.2
1,4-Dichlorobenzene	1.2	U	0.38	1.2
Benzyl chloride	1.0	U	0.35	1.0
n-Butylbenzene	1.1	U	0.37	1.1
1,2-Dichlorobenzene	1.2	U	0.27	1.2
1,2,4-Trichlorobenzene	3.7	U	1.4	3.7
Hexachlorobutadiene	2.1	U	0.68	2.1
Naphthalene	2.6	U	0.52	2.6

Quality Control Results

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Lab Control Sample - Batch: 200-114860

Method: TO-15

Preparation: Summa Canister

Lab Sample ID:	LCS 200-114860/3	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	24297_03.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/13/2017 1228	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1228			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	11.3	113	68 - 128	
Freon 22	10.0	11.0	110	64 - 128	
1,2-Dichlorotetrafluoroethane	10.0	12.1	121	78 - 138	
Chloromethane	10.0	10.2	102	57 - 126	
n-Butane	10.0	10.2	102	56 - 130	
Vinyl chloride	10.0	10.2	102	62 - 125	
1,3-Butadiene	10.0	9.74	97	59 - 125	
Bromomethane	10.0	10.5	105	68 - 128	
Chloroethane	10.0	10.0	100	65 - 125	
Bromoethene(Vinyl Bromide)	10.0	10.4	104	67 - 127	
Trichlorofluoromethane	10.0	10.6	106	67 - 127	
Freon TF	10.0	10.4	104	68 - 128	
1,1-Dichloroethene	10.0	9.97	100	67 - 127	
Acetone	10.0	10.5	105	64 - 136	
Isopropyl alcohol	10.0	8.69	87	55 - 124	
Carbon disulfide	10.0	12.1	121	81 - 141	
3-Chloropropene	10.0	7.93	79	53 - 133	
Methylene Chloride	10.0	10.1	101	62 - 122	
tert-Butyl alcohol	10.0	9.40	94	64 - 124	
Methyl tert-butyl ether	10.0	10.6	106	67 - 127	
trans-1,2-Dichloroethene	10.0	11.0	110	72 - 132	
n-Hexane	10.0	10.6	106	71 - 131	
1,1-Dichloroethane	10.0	10.2	102	66 - 126	
Methyl Ethyl Ketone	10.0	10.4	104	62 - 122	
cis-1,2-Dichloroethene	10.0	10.1	101	67 - 127	
Chloroform	10.0	10.6	106	69 - 129	
Tetrahydrofuran	10.0	10.0	100	61 - 136	
1,1,1-Trichloroethane	10.0	10.4	104	70 - 130	
Cyclohexane	10.0	9.86	99	69 - 129	
Carbon tetrachloride	10.0	10.9	109	62 - 143	
2,2,4-Trimethylpentane	10.0	9.45	94	67 - 127	
Benzene	10.0	9.38	94	67 - 127	
1,2-Dichloroethane	10.0	10.7	107	67 - 132	
n-Heptane	10.0	9.37	94	62 - 130	
Trichloroethene	10.0	9.73	97	68 - 128	
Methyl methacrylate	10.0	10.2	102	70 - 130	
1,2-Dichloropropane	10.0	9.11	91	67 - 127	
1,4-Dioxane	10.0	9.39	94	66 - 132	
Bromodichloromethane	10.0	9.91	99	69 - 129	
cis-1,3-Dichloropropene	10.0	9.98	100	70 - 130	
methyl isobutyl ketone	10.0	9.77	98	62 - 130	
Toluene	10.0	10.0	101	67 - 127	
trans-1,3-Dichloropropene	10.0	10.3	103	69 - 129	
1,1,2-Trichloroethane	10.0	10.2	102	69 - 129	
Tetrachloroethene	10.0	10.7	107	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	61 - 127	

Quality Control Results

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Lab Control Sample - Batch: 200-114860

Method: TO-15

Preparation: Summa Canister

Lab Sample ID:	LCS 200-114860/3	Analysis Batch:	200-114860	Instrument ID:	CHW.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	24297_03.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/13/2017 1228	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/13/2017 1228			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromochloromethane	10.0	9.69	97	66 - 130	
1,2-Dibromoethane	10.0	10.4	104	70 - 130	
Chlorobenzene	10.0	10.2	102	68 - 128	
Ethylbenzene	10.0	10.1	101	68 - 128	
m,p-Xylene	20.0	20.6	103	68 - 128	
Xylene, o-	10.0	10.2	102	67 - 127	
Styrene	10.0	10.7	107	68 - 128	
Bromoform	10.0	8.81	88	34 - 170	
Cumene	10.0	10.2	102	67 - 127	
1,1,2,2-Tetrachloroethane	10.0	9.92	99	69 - 129	
n-Propylbenzene	10.0	10.2	102	67 - 127	
4-Ethyltoluene	10.0	10.7	107	69 - 129	
1,3,5-Trimethylbenzene	10.0	10.5	105	65 - 125	
2-Chlorotoluene	10.0	10.3	103	67 - 127	
tert-Butylbenzene	10.0	10.6	106	63 - 125	
1,2,4-Trimethylbenzene	10.0	10.6	106	65 - 125	
sec-Butylbenzene	10.0	10.5	105	66 - 126	
4-Isopropyltoluene	10.0	10.8	108	67 - 129	
1,3-Dichlorobenzene	10.0	11.1	111	67 - 127	
1,4-Dichlorobenzene	10.0	11.2	112	66 - 126	
Benzyl chloride	10.0	9.38	94	54 - 135	
n-Butylbenzene	10.0	11.1	111	67 - 127	
1,2-Dichlorobenzene	10.0	10.8	108	67 - 127	
1,2,4-Trichlorobenzene	10.0	11.0	110	59 - 126	
Hexachlorobutadiene	10.0	10.9	109	62 - 130	
Naphthalene	10.0	9.58	96	50 - 121	

DATA REPORTING QUALIFIERS

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

Lab Section	Qualifier	Description
Air - GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Argonne National Laboratory

Job Number: 200-37699-1
Sdg Number: Agra, KS (37699)

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-114860					
LCS 200-114860/3	Lab Control Sample	T	Air	TO-15	
MB 200-114860/4	Method Blank	T	Air	TO-15	
200-37699-1	AGSG1S-G-39730	T	Air	TO-15	
200-37699-2	AGSG1D-G-39731	T	Air	TO-15	
200-37699-3	AGSG2S-G-39732	T	Air	TO-15	
200-37699-4	AGSG2D-G-39733	T	Air	TO-15	
200-37699-5	AGSG3S-G-39734	T	Air	TO-15	
200-37699-6	AGSG3D-G-39735	T	Air	TO-15	
200-37699-7	AGSG3DUP-G-39736	T	Air	TO-15	
200-37699-8	AGBKGD-G-39737	T	Air	TO-15	

Report Basis

T = Total

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL1w_00170	04/16/17	01/20/17	Zero Air, Lot 12	15.463 L	ATTO15CAL6w_00136	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,3-Trichlorobenzene	0.20044 ppb v/v
							1,2,3-Trichloropropane	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dibromoethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Butadiene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2,2,4-Trimethylpentane	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
							2-Methylbutane	0.20044 ppb v/v
							3-Chloropropene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							4-Isopropyltoluene	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	0.20044 ppb v/v
							Acetonitrile	0.20044 ppb v/v
							Acrolein	0.20044 ppb v/v
							Acrylonitrile	0.20044 ppb v/v
							Alpha Methyl Styrene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
							Benzyl chloride	0.20044 ppb v/v
							Bromodichloromethane	0.20044 ppb v/v
							Bromoethene (Vinyl Bromide)	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,2-Dichloroethene	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cumene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dibromochloromethane	0.20044 ppb v/v
							Dibromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Dodecane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	0.20044 ppb v/v
							Ethyl ether	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Freon 22	0.20044 ppb v/v
							Freon TF	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m,p-Xylene	0.400879 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.20044 ppb v/v
							Methyl Ethyl Ketone	0.20044 ppb v/v
							methyl isobutyl ketone	0.20044 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v
							n-Butane	0.20044 ppb v/v
							n-Butanol	0.20044 ppb v/v
							n-Butylbenzene	0.20044 ppb v/v
							n-Decane	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							n-Hexane	0.20044 ppb v/v
							n-Nonane	0.20044 ppb v/v
							n-Octane	0.20044 ppb v/v
							n-Propylbenzene	0.20044 ppb v/v
							Naphthalene	0.20044 ppb v/v
							Pentane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propene	0.20044 ppb v/v
							sec-Butylbenzene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							tert-Butyl alcohol	0.20044 ppb v/v
							tert-Butylbenzene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,2-Dichloroethene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Undecane	0.20044 ppb v/v
							Vinyl acetate	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
							Xylene, o-	0.20044 ppb v/v
							Ethanol	0.400944 ppb v/v
.ATTO15CAL6w_00136	04/16/17	01/19/17	Zero Air, Lot 13	15.463 L	ATTO15CALSTKi_00089	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoethene (Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00079	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00089	04/16/17	01/16/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL2w_00231	04/16/17	01/20/17	Zero Air, Lot 12	15.463 L	ATTO15CAL6w_00136	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,3-Trichlorobenzene	0.500453 ppb v/v
							1,2,3-Trichloropropane	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dibromoethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Butadiene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2,4-Trimethylpentane	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methylbutane	0.500453 ppb v/v
							3-Chloropropene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Isopropyltoluene	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Acetonitrile	0.500453 ppb v/v
							Acrolein	0.500453 ppb v/v
							Acrylonitrile	0.500453 ppb v/v
							Alpha Methyl Styrene	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Benzyl chloride	0.500453 ppb v/v
							Bromodichloromethane	0.500453 ppb v/v
							Bromoethene (Vinyl Bromide)	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,2-Dichloroethene	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cumene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dibromochloromethane	0.500453 ppb v/v
							Dibromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Dodecane	0.500453 ppb v/v
							Ethyl acetate	0.500453 ppb v/v
							Ethyl ether	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Freon 22	0.500453 ppb v/v
							Freon TF	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m,p-Xylene	1.00091 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.500453 ppb v/v
							Methyl Ethyl Ketone	0.500453 ppb v/v
							methyl isobutyl ketone	0.500453 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Butane	0.500453 ppb v/v
							n-Butanol	0.500453 ppb v/v
							n-Butylbenzene	0.500453 ppb v/v
							n-Decane	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Hexane	0.500453 ppb v/v
							n-Nonane	0.500453 ppb v/v
							n-Octane	0.500453 ppb v/v
							n-Propylbenzene	0.500453 ppb v/v
							Naphthalene	0.500453 ppb v/v
							Pentane	0.500453 ppb v/v
							Propene	0.500453 ppb v/v
							sec-Butylbenzene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							tert-Butyl alcohol	0.500453 ppb v/v
							tert-Butylbenzene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,2-Dichloroethene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Undecane	0.500453 ppb v/v
							Vinyl acetate	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
							Xylene, o-	0.500453 ppb v/v
							Ethanol	5.01064 ppb v/v
					ATTO15EthCALw_00079	124 mL	Ethanol	5.01064 ppb v/v
.ATTO15CAL6w_00136	04/16/17	01/19/17	Zero Air, Lot 13	15.463 L	ATTO15CALSTKi_00089	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene (Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00079	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00089	04/16/17	01/16/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
.ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL3w_00174	04/16/17	01/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00089	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,3-Trichlorobenzene	4.99256 ppb v/v
							1,2,3-Trichloropropane	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dibromoethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,2-Dichlorotetrafluoroethane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Butadiene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2,2,4-Trimethylpentane	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methylbutane	4.99256 ppb v/v
							3-Chloropropene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Isopropyltoluene	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Acetonitrile	4.99256 ppb v/v
							Acrolein	4.99256 ppb v/v
							Acrylonitrile	4.99256 ppb v/v
							Alpha Methyl Styrene	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Benzyl chloride	4.99256 ppb v/v
							Bromodichloromethane	4.99256 ppb v/v
							Bromoethene (Vinyl Bromide)	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,2-Dichloroethene	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cumene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dibromochloromethane	4.99256 ppb v/v
							Dibromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Dodecane	4.99256 ppb v/v
							Ethyl acetate	4.99256 ppb v/v
							Ethyl ether	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Freon 22	4.99256 ppb v/v
							Freon TF	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m,p-Xylene	9.98513 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	4.99256 ppb v/v
							Methyl Ethyl Ketone	4.99256 ppb v/v
							methyl isobutyl ketone	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Butane	4.99256 ppb v/v
							n-Butanol	4.99256 ppb v/v
							n-Butylbenzene	4.99256 ppb v/v
							n-Decane	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							n-Hexane	4.99256 ppb v/v
							n-Nonane	4.99256 ppb v/v
							n-Octane	4.99256 ppb v/v
							n-Propylbenzene	4.99256 ppb v/v
							Naphthalene	4.99256 ppb v/v
							Pentane	4.99256 ppb v/v
							Propene	4.99256 ppb v/v
							sec-Butylbenzene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							tert-Butyl alcohol	4.99256 ppb v/v
							tert-Butylbenzene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,2-Dichloroethene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	4.99256 ppb v/v
							Undecane	4.99256 ppb v/v
							Vinyl acetate	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
							Xylene, o-	4.99256 ppb v/v
					ATTO15EthCALw_00079	309 mL	Ethanol	9.99159 ppb v/v
.ATTO15CALSTKi_00089	04/16/17	01/16/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATT015CALs_00026	12/19/17		Spectra Gases, Lot cc-90855		(Purchased Reagent)		trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropene	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00601	04/16/17	01/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00089	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,3-Trichlorobenzene	9.99806 ppb v/v
							1,2,3-Trichloropropane	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methylbutane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Acetonitrile	9.99806 ppb v/v
							Acrolein	9.99806 ppb v/v
							Acrylonitrile	9.99806 ppb v/v
							Alpha Methyl Styrene	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene (Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Dodecane	9.99806 ppb v/v
							Ethyl acetate	9.99806 ppb v/v
							Ethyl ether	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butanol	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Decane	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Nonane	9.99806 ppb v/v
							n-Octane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							Pentane	9.99806 ppb v/v
							Propene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Undecane	9.99806 ppb v/v
							Vinyl acetate	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
					ATTO15EthCALw_00079	464 mL	Ethanol	15.0036 ppb v/v
.ATTO15CALSTKi_00089	04/16/17	01/16/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v	
						1,1,2,2-Tetrachloroethane	1 ppm v/v	
						1,1,2-Trichloroethane	1 ppm v/v	
						1,1-Dichloroethane	1 ppm v/v	
						1,1-Dichloroethene	1 ppm v/v	
						1,2,3-Trichlorobenzene	1 ppm v/v	
						1,2,3-Trichloropropane	1 ppm v/v	
						1,2,4-Trichlorobenzene	1 ppm v/v	
						1,2,4-Trimethylbenzene	1 ppm v/v	
						1,2-Dibromoethane	1 ppm v/v	
						1,2-Dichlorobenzene	1 ppm v/v	
						1,2-Dichloroethane	1 ppm v/v	
						1,2-Dichloropropane	1 ppm v/v	
						1,2-Dichlorotetrafluoroethane	1 ppm v/v	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL5w_00065	04/16/17	01/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00089	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,3-Trichlorobenzene	15.0036 ppb v/v
							1,2,3-Trichloropropane	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dibromoethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,2-Dichlorotetrafluoroethane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Butadiene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2,2,4-Trimethylpentane	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methylbutane	15.0036 ppb v/v
							3-Chloropropene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Isopropyltoluene	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Acetonitrile	15.0036 ppb v/v
							Acrolein	15.0036 ppb v/v
							Acrylonitrile	15.0036 ppb v/v
							Alpha Methyl Styrene	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Benzyl chloride	15.0036 ppb v/v
							Bromodichloromethane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoethene (Vinyl Bromide)	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,2-Dichloroethene	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cumene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dibromochloromethane	15.0036 ppb v/v
							Dibromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Dodecane	15.0036 ppb v/v
							Ethyl acetate	15.0036 ppb v/v
							Ethyl ether	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Freon 22	15.0036 ppb v/v
							Freon TF	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m,p-Xylene	30.0071 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Butyl Ketone (2-Hexanone)	15.0036 ppb v/v
							Methyl Ethyl Ketone	15.0036 ppb v/v
							methyl isobutyl ketone	15.0036 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Butane	15.0036 ppb v/v
							n-Butanol	15.0036 ppb v/v
							n-Butylbenzene	15.0036 ppb v/v
							n-Decane	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							n-Hexane	15.0036 ppb v/v
							n-Nonane	15.0036 ppb v/v
							n-Octane	15.0036 ppb v/v
							n-Propylbenzene	15.0036 ppb v/v
							Naphthalene	15.0036 ppb v/v
							Pentane	15.0036 ppb v/v
							Propene	15.0036 ppb v/v
							sec-Butylbenzene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v
							tert-Butyl alcohol	15.0036 ppb v/v
							tert-Butylbenzene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Undecane	15.0036 ppb v/v
							Vinyl acetate	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
							Xylene, o-	15.0036 ppb v/v
					ATTO15EthCALw_00079	620 mL	Ethanol	20.0479 ppb v/v
.ATTO15CALSTKi_00089	04/16/17	01/16/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATT015CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL6w_00136	04/16/17	01/19/17	Zero Air, Lot 13	15.463 L	ATTO15CALSTKi_00089	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene (Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00079	1237 mL	Ethanol	39.9987 ppb v/v
.ATTO15CALSTKi_00089	04/16/17	01/16/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL7w_00067	04/16/17	01/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00089	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	39.9922 ppb v/v
							1,2,3-Trichloropropane	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dibromoethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,2-Dichlorotetrafluoroethane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Butadiene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2,2,4-Trimethylpentane	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methylbutane	39.9922 ppb v/v
							3-Chloropropene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Isopropyltoluene	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Acetonitrile	39.9922 ppb v/v
							Acrolein	39.9922 ppb v/v
							Acrylonitrile	39.9922 ppb v/v
							Alpha Methyl Styrene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	39.9922 ppb v/v
							Benzyl chloride	39.9922 ppb v/v
							Bromodichloromethane	39.9922 ppb v/v
							Bromoethene (Vinyl Bromide)	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,2-Dichloroethene	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cumene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dibromochloromethane	39.9922 ppb v/v
							Dibromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Dodecane	39.9922 ppb v/v
							Ethyl acetate	39.9922 ppb v/v
							Ethyl ether	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Freon 22	39.9922 ppb v/v
							Freon TF	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m,p-Xylene	79.9845 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	39.9922 ppb v/v
							Methyl Ethyl Ketone	39.9922 ppb v/v
							methyl isobutyl ketone	39.9922 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Butane	39.9922 ppb v/v
							n-Butanol	39.9922 ppb v/v
							n-Butylbenzene	39.9922 ppb v/v
							n-Decane	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							n-Hexane	39.9922 ppb v/v
							n-Nonane	39.9922 ppb v/v
							n-Octane	39.9922 ppb v/v
							n-Propylbenzene	39.9922 ppb v/v
							Naphthalene	39.9922 ppb v/v
							Pentane	39.9922 ppb v/v
							Propene	39.9922 ppb v/v
							sec-Butylbenzene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							tert-Butyl alcohol	39.9922 ppb v/v
							tert-Butylbenzene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,2-Dichloroethene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Undecane	39.9922 ppb v/v
							Vinyl acetate	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
							Xylene, o-	39.9922 ppb v/v
					ATTO15EthCALw_00079	3092 mL	Ethanol	99.9806 ppb v/v
.ATTO15CALSTKi_00089	04/16/17	01/16/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATT015CALs_00026	12/19/17		Spectra Gases, Lot cc-90855			(Purchased Reagent)	Xylene, o-	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00079	04/18/17	01/18/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15LCSW_00666	04/16/17	02/13/17	Zero Air, Lot 13	15.463 L	ATTO15LCSSTKi_00079	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene (Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSTKi_00079	04/16/17	01/16/17	Zero Air, Lot 12	37.5 L	ATTO15LCSS_00020	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCSS_00020	12/19/17	Spectra Gases, Lot CC-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15LCSW_00673	04/16/17	02/27/17	Zero Air, Lot 13	15.463 L	ATTO15LCSSTKi_00079	773 mL	Xylene, o-	1 ppm v/v
							1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene (Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSSTKi_00079	04/16/17	01/16/17	Zero Air, Lot 12	37.5 L	ATTO15LCSs_00020	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCss_00020	12/19/17	Spectra Gases, Lot CC-250179			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1SDG No.: Agra, KS (37699)

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15WISs_00004	11/23/20	Spectra Gases, Lot CC-172855			(Purchased Reagent)		Xylene, o-	1 ppm v/v
							1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v

Certification Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (37699)

TestAmerica Job ID: 200-37699-1
SDG: Agra, KS (37699)

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act (HSC	State Program	3	NA
TestAmerica Burlington	Florida	NELAP	4	E87467
TestAmerica Burlington	L-A-B	DoD ELAP		L2336
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAP	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAP	1	2006
TestAmerica Burlington	New Jersey	NELAP	2	VT972
TestAmerica Burlington	New York	NELAP	2	10391
TestAmerica Burlington	Pennsylvania	NELAP	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	US Fish & Wildlife	Federal		LE-058448-0
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAP	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method T015

Volatile Organic Compounds (GC/MS)
by Method T015

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Matrix: Air Level: Low Lab File ID: 24297_03.d
 Lab ID: LCS 200-114860/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	11.3	113	68-128	
Freon 22	10.0	11.0	110	64-128	
1,2-Dichlorotetrafluoroethane	10.0	12.1	121	78-138	
Chloromethane	10.0	10.2	102	57-126	
n-Butane	10.0	10.2	102	56-130	
Vinyl chloride	10.0	10.2	102	62-125	
1,3-Butadiene	10.0	9.74	97	59-125	
Bromomethane	10.0	10.5	105	68-128	
Chloroethane	10.0	10.0	100	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.4	104	67-127	
Trichlorofluoromethane	10.0	10.6	106	67-127	
Freon TF	10.0	10.4	104	68-128	
1,1-Dichloroethene	10.0	9.97	100	67-127	
Acetone	10.0	10.5	105	64-136	
Isopropyl alcohol	10.0	8.69	87	55-124	
Carbon disulfide	10.0	12.1	121	81-141	
3-Chloropropene	10.0	7.93	79	53-133	
Methylene Chloride	10.0	10.1	101	62-122	
tert-Butyl alcohol	10.0	9.40	94	64-124	
Methyl tert-butyl ether	10.0	10.6	106	67-127	
trans-1,2-Dichloroethene	10.0	11.0	110	72-132	
n-Hexane	10.0	10.6	106	71-131	
1,1-Dichloroethane	10.0	10.2	102	66-126	
Methyl Ethyl Ketone	10.0	10.4	104	62-122	
cis-1,2-Dichloroethene	10.0	10.1	101	67-127	
Chloroform	10.0	10.6	106	69-129	
Tetrahydrofuran	10.0	10.0	100	61-136	
1,1,1-Trichloroethane	10.0	10.4	104	70-130	
Cyclohexane	10.0	9.86	99	69-129	
Carbon tetrachloride	10.0	10.9	109	62-143	
2,2,4-Trimethylpentane	10.0	9.45	94	67-127	
Benzene	10.0	9.38	94	67-127	
1,2-Dichloroethane	10.0	10.7	107	67-132	
n-Heptane	10.0	9.37	94	62-130	
Trichloroethene	10.0	9.73	97	68-128	
Methyl methacrylate	10.0	10.2	102	70-130	
1,2-Dichloropropane	10.0	9.11	91	67-127	
1,4-Dioxane	10.0	9.39	94	66-132	
Bromodichloromethane	10.0	9.91	99	69-129	
cis-1,3-Dichloropropene	10.0	9.98	100	70-130	
methyl isobutyl ketone	10.0	9.77	98	62-130	
Toluene	10.0	10.0	101	67-127	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Matrix: Air Level: Low Lab File ID: 24297_03.d
 Lab ID: LCS 200-114860/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	10.0	10.3	103	69-129	
1,1,2-Trichloroethane	10.0	10.2	102	69-129	
Tetrachloroethene	10.0	10.7	107	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	61-127	
Dibromochloromethane	10.0	9.69	97	66-130	
1,2-Dibromoethane	10.0	10.4	104	70-130	
Chlorobenzene	10.0	10.2	102	68-128	
Ethylbenzene	10.0	10.1	101	68-128	
m,p-Xylene	20.0	20.6	103	68-128	
Xylene, o-	10.0	10.2	102	67-127	
Styrene	10.0	10.7	107	68-128	
Bromoform	10.0	8.81	88	34-170	
Cumene	10.0	10.2	102	67-127	
1,1,2,2-Tetrachloroethane	10.0	9.92	99	69-129	
n-Propylbenzene	10.0	10.2	102	67-127	
4-Ethyltoluene	10.0	10.7	107	69-129	
1,3,5-Trimethylbenzene	10.0	10.5	105	65-125	
2-Chlorotoluene	10.0	10.3	103	67-127	
tert-Butylbenzene	10.0	10.6	106	63-125	
1,2,4-Trimethylbenzene	10.0	10.6	106	65-125	
sec-Butylbenzene	10.0	10.5	105	66-126	
4-Isopropyltoluene	10.0	10.8	108	67-129	
1,3-Dichlorobenzene	10.0	11.1	111	67-127	
1,4-Dichlorobenzene	10.0	11.2	112	66-126	
Benzyl chloride	10.0	9.38	94	54-135	
n-Butylbenzene	10.0	11.1	111	67-127	
1,2-Dichlorobenzene	10.0	10.8	108	67-127	
1,2,4-Trichlorobenzene	10.0	11.0	110	59-126	
Hexachlorobutadiene	10.0	10.9	109	62-130	
Naphthalene	10.0	9.58	96	50-121	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab File ID: 24297_04.d Lab Sample ID: MB 200-114860/4
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: CHW.i Date Analyzed: 03/13/2017 13:20
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-114860/3	24297_03.d	03/13/2017 12:28
AGSG1S-G-39730	200-37699-1	24297_05.d	03/13/2017 14:31
AGSG1D-G-39731	200-37699-2	24297_07.d	03/13/2017 16:07
AGSG2D-G-39733	200-37699-4	24297_09.d	03/13/2017 17:46
AGSG3S-G-39734	200-37699-5	24297_10.d	03/13/2017 18:35
AGSG3D-G-39735	200-37699-6	24297_11.d	03/13/2017 19:24
AGSG3DUP-G-39736	200-37699-7	24297_12.d	03/13/2017 20:13
AGBKGD-G-39737	200-37699-8	24297_13.d	03/13/2017 21:03
AGSG2S-G-39732	200-37699-3	24297_25.d	03/14/2017 09:41

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab File ID: 23991_01.d BFB Injection Date: 02/18/2017
 Instrument ID: CHW.i BFB Injection Time: 12:00
 Analysis Batch No.: 114220

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	13.0
75	30.0 - 66.0% of mass 95	40.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.6 (0.6) 1
174	50.0 - 120.0% of mass 95	97.0
175	4.0 - 9.0 % of mass 174	6.9 (7.1) 1
176	93.0 - 101.0% of mass 174	94.9 (97.8) 1
177	5.0 - 9.0% of mass 176	6.5 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-114220/6	23991_06.d	02/18/2017	16:27
	IC 200-114220/7	23991_07.d	02/18/2017	17:20
	IC 200-114220/8	23991_08.d	02/18/2017	18:13
	IC 200-114220/9	23991_09.d	02/18/2017	19:05
	ICIS 200-114220/10	23991_10.d	02/18/2017	19:59
	IC 200-114220/11	23991_11.d	02/18/2017	20:51
	IC 200-114220/12	23991_12.d	02/18/2017	21:44
	IC 200-114220/13	23991_13.d	02/18/2017	22:37
	ICV 200-114220/20	23991_20.d	02/19/2017	04:45

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Lab File ID: 24297_01.d BFB Injection Date: 03/13/2017
Instrument ID: CHW.i BFB Injection Time: 10:42
Analysis Batch No.: 114860

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	14.2
75	30.0 - 66.0% of mass 95	41.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.6) 1
174	50.0 - 120.0% of mass 95	103.1
175	4.0 - 9.0 % of mass 174	7.4 (7.2) 1
176	93.0 - 101.0% of mass 174	100.8 (97.8) 1
177	5.0 - 9.0% of mass 176	6.7 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-114860/2	24297_02.d	03/13/2017	11:35
	LCS 200-114860/3	24297_03.d	03/13/2017	12:28
	MB 200-114860/4	24297_04.d	03/13/2017	13:20
AGSG1S-G-39730	200-37699-1	24297_05.d	03/13/2017	14:31
AGSG1D-G-39731	200-37699-2	24297_07.d	03/13/2017	16:07
AGSG2D-G-39733	200-37699-4	24297_09.d	03/13/2017	17:46
AGSG3S-G-39734	200-37699-5	24297_10.d	03/13/2017	18:35
AGSG3D-G-39735	200-37699-6	24297_11.d	03/13/2017	19:24
AGSG3DUP-G-39736	200-37699-7	24297_12.d	03/13/2017	20:13
AGBKGD-G-39737	200-37699-8	24297_13.d	03/13/2017	21:03
AGSG2S-G-39732	200-37699-3	24297_25.d	03/14/2017	09:41

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Sample No.: ICIS 200-114220/10 Date Analyzed: 02/18/2017 19:59
Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)
Lab File ID (Standard): 23991_10.d Heated Purge: (Y/N) N
Calibration ID: 36656

	BCM		DFBZ		CBNZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	273858	12.64	1259200	14.35	1145008	19.84	
UPPER LIMIT	383401	12.97	1762880	14.68	1603011	20.17	
LOWER LIMIT	164315	12.31	755520	14.02	687005	19.51	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-114220/20		327554	12.64	1556640	14.35	1412945	19.84

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Sample No.: CCVIS 200-114860/2 Date Analyzed: 03/13/2017 11:35
Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)
Lab File ID (Standard): 24297_02.d Heated Purge: (Y/N) N
Calibration ID: 36656

		BCM		DFBZ		CBNZd5		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		249474	12.63	1194699	14.35	1056315	19.84	
UPPER LIMIT		349264	12.96	1672579	14.68	1478841	20.17	
LOWER LIMIT		149684	12.30	716819	14.02	633789	19.51	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 200-114860/3		267199	12.64	1275542	14.35	1147201	19.84	
MB 200-114860/4		265691	12.63	1291021	14.34	1084776	19.84	
200-37699-1		AGSG1S-G-39730	261387	12.64	1240171	14.34	1068562	19.84
200-37699-2		AGSG1D-G-39731	217380	12.63	1009945	14.34	879772	19.84
200-37699-4		AGSG2D-G-39733	185217	12.63	818312	14.34	714648	19.83
200-37699-5		AGSG3S-G-39734	198211	12.63	904504	14.34	787634	19.83
200-37699-6		AGSG3D-G-39735	197920	12.64	866778	14.35	780100	19.84
200-37699-7		AGSG3DUP-G-39736	195592	12.64	850438	14.35	780331	19.84
200-37699-8		AGBKGD-G-39737	178882	12.63	811633	14.34	746600	19.84
200-37699-3		AGSG2S-G-39732	209925	12.64	917138	14.34	825337	19.84

BCM = Bromochloromethane
DFBZ = 1,4-Difluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1S-G-39730</u>	Lab Sample ID: <u>200-37699-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_05.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 11:58</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 14:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	3.0	J	5.0	1.6
106-97-8	n-Butane	58.12	6.3		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	26	J	50	13
67-63-0	Isopropyl alcohol	60.10	2.9	J	50	1.3
75-15-0	Carbon disulfide	76.14	8.1		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	0.52	J	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	720	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	0.24	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	8.0		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1S-G-39730</u>	Lab Sample ID: <u>200-37699-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_05.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 11:58</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 14:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	0.44	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	42		2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	2.0		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG1S-G-39730 Lab Sample ID: 200-37699-1
Matrix: Air Lab File ID: 24297_05.d
Analysis Method: TO-15 Date Collected: 03/08/2017 11:58
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 14:31
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1S-G-39730</u>	Lab Sample ID: <u>200-37699-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_05.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 11:58</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 14:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	6.2	J	10	3.3
106-97-8	n-Butane	58.12	15		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	62	J	120	31
67-63-0	Isopropyl alcohol	60.10	7.1	J	120	3.2
75-15-0	Carbon disulfide	76.14	25		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	1.8	J	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	2100	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	1.5	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	26		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1S-G-39730</u>	Lab Sample ID: <u>200-37699-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_05.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 11:58</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 14:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	1.7	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	290		14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	10		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG1S-G-39730 Lab Sample ID: 200-37699-1
Matrix: Air Lab File ID: 24297_05.d
Analysis Method: TO-15 Date Collected: 03/08/2017 11:58
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 14:31
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1D-G-39731</u>	Lab Sample ID: <u>200-37699-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_07.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:14</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 16:07</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	5.1		5.0	1.6
106-97-8	n-Butane	58.12	12		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	16	J	50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	30		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	1.5	J	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	3.1	J	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	12	J	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	0.79	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	25		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1D-G-39731</u>	Lab Sample ID: <u>200-37699-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_07.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:14</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 16:07</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	0.78	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	0.62	J	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	2.7		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG1D-G-39731 Lab Sample ID: 200-37699-2
Matrix: Air Lab File ID: 24297_07.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:14
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 16:07
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1D-G-39731</u>	Lab Sample ID: <u>200-37699-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_07.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:14</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 16:07</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	11		10	3.3
106-97-8	n-Butane	58.12	28		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	39	J	120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	94		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	5.4	J	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	9.3	J	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	35	J	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	5.0	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	81		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG1D-G-39731</u>	Lab Sample ID: <u>200-37699-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_07.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:14</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 16:07</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	2.9	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	4.2	J	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	13		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG1D-G-39731 Lab Sample ID: 200-37699-2
Matrix: Air Lab File ID: 24297_07.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:14
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 16:07
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2S-G-39732</u>	Lab Sample ID: <u>200-37699-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_25.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:18</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/14/2017 09:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.53	J	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	2.9	J	5.0	1.6
106-97-8	n-Butane	58.12	5.8		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	38	J	50	13
67-63-0	Isopropyl alcohol	60.10	3.2	J	50	1.3
75-15-0	Carbon disulfide	76.14	6.1		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	16		5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	220		50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	6.5		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2S-G-39732</u>	Lab Sample ID: <u>200-37699-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_25.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:18</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/14/2017 09:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	0.42	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	0.38	J	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	5.2		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG2S-G-39732 Lab Sample ID: 200-37699-3
Matrix: Air Lab File ID: 24297_25.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:18
Sample wt/vol: 20 (mL) Date Analyzed: 03/14/2017 09:41
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2S-G-39732</u>	Lab Sample ID: <u>200-37699-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_25.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:18</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/14/2017 09:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.6	J	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	6.0	J	10	3.3
106-97-8	n-Butane	58.12	14		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	89	J	120	31
67-63-0	Isopropyl alcohol	60.10	7.8	J	120	3.2
75-15-0	Carbon disulfide	76.14	19		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	48		15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	650		150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	21		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2S-G-39732</u>	Lab Sample ID: <u>200-37699-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_25.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:18</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/14/2017 09:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	1.6	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	2.6	J	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	26		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG2S-G-39732 Lab Sample ID: 200-37699-3
Matrix: Air Lab File ID: 24297_25.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:18
Sample wt/vol: 20 (mL) Date Analyzed: 03/14/2017 09:41
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2D-G-39733</u>	Lab Sample ID: <u>200-37699-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_09.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:41</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 17:46</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.53	J	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	5.0	U	5.0	1.6
106-97-8	n-Butane	58.12	3.5	J	5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	21	J	50	13
67-63-0	Isopropyl alcohol	60.10	3.0	J	50	1.3
75-15-0	Carbon disulfide	76.14	5.0	U	5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	0.75	J	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	4.1	J	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	50	U	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	2.4		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2D-G-39733</u>	Lab Sample ID: <u>200-37699-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_09.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:41</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 17:46</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	2.0	U	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	1.5	J	2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG2D-G-39733 Lab Sample ID: 200-37699-4
Matrix: Air Lab File ID: 24297_09.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:41
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 17:46
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2D-G-39733</u>	Lab Sample ID: <u>200-37699-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_09.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:41</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 17:46</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.6	J	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	10	U	10	3.3
106-97-8	n-Butane	58.12	8.3	J	12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	51	J	120	31
67-63-0	Isopropyl alcohol	60.10	7.3	J	120	3.2
75-15-0	Carbon disulfide	76.14	16	U	16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	2.6	J	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	12	J	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	150	U	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	7.8		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG2D-G-39733</u>	Lab Sample ID: <u>200-37699-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_09.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:41</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 17:46</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	7.5	U	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	7.3	J	9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG2D-G-39733 Lab Sample ID: 200-37699-4
Matrix: Air Lab File ID: 24297_09.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:41
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 17:46
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3S-G-39734</u>	Lab Sample ID: <u>200-37699-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_10.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:33</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 18:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.48	J	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	3.2	J	5.0	1.6
106-97-8	n-Butane	58.12	9.6		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	29	J	50	13
67-63-0	Isopropyl alcohol	60.10	3.9	J	50	1.3
75-15-0	Carbon disulfide	76.14	12		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	0.93	J	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	450	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	0.21	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	5.3		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3S-G-39734</u>	Lab Sample ID: <u>200-37699-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_10.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:33</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 18:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	0.65	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	1.2	J	2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG3S-G-39734 Lab Sample ID: 200-37699-5
Matrix: Air Lab File ID: 24297_10.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:33
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 18:35
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3S-G-39734</u>	Lab Sample ID: <u>200-37699-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_10.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:33</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 18:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.4	J	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	6.6	J	10	3.3
106-97-8	n-Butane	58.12	23		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	68	J	120	31
67-63-0	Isopropyl alcohol	60.10	9.5	J	120	3.2
75-15-0	Carbon disulfide	76.14	39		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	3.3	J	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	1300	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	1.3	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	17		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3S-G-39734</u>	Lab Sample ID: <u>200-37699-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_10.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 12:33</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 18:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	2.4	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	5.7	J	9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG3S-G-39734 Lab Sample ID: 200-37699-5
Matrix: Air Lab File ID: 24297_10.d
Analysis Method: TO-15 Date Collected: 03/08/2017 12:33
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 18:35
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3D-G-39735</u>	Lab Sample ID: <u>200-37699-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_11.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:21</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 19:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	13		5.0	1.6
106-97-8	n-Butane	58.12	12		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	490	E	50	13
67-63-0	Isopropyl alcohol	60.10	36	J	50	1.3
75-15-0	Carbon disulfide	76.14	81		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	4000	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	1.8	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	0.81	J	2.0	0.43
71-43-2	Benzene	78.11	12		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3D-G-39735</u>	Lab Sample ID: <u>200-37699-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_11.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:21</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 19:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	120		2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	1.1	J	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	4.0		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG3D-G-39735 Lab Sample ID: 200-37699-6
Matrix: Air Lab File ID: 24297_11.d
Analysis Method: TO-15 Date Collected: 03/08/2017 13:21
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 19:24
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3D-G-39735</u>	Lab Sample ID: <u>200-37699-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_11.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:21</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 19:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	27		10	3.3
106-97-8	n-Butane	58.12	28		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	1200	E	120	31
67-63-0	Isopropyl alcohol	60.10	89	J	120	3.2
75-15-0	Carbon disulfide	76.14	250		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	12000	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	11	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	3.8	J	9.3	2.0
71-43-2	Benzene	78.11	38		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3D-G-39735</u>	Lab Sample ID: <u>200-37699-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_11.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:21</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 19:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	450		7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	4.7	J	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	20		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG3D-G-39735 Lab Sample ID: 200-37699-6
Matrix: Air Lab File ID: 24297_11.d
Analysis Method: TO-15 Date Collected: 03/08/2017 13:21
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 19:24
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3DUP-G-39736</u>	Lab Sample ID: <u>200-37699-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_12.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:32</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 20:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.54	J	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	11		5.0	1.6
106-97-8	n-Butane	58.12	10		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	150		50	13
67-63-0	Isopropyl alcohol	60.10	41	J	50	1.3
75-15-0	Carbon disulfide	76.14	73		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	3500	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	1.9	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	0.74	J	2.0	0.43
71-43-2	Benzene	78.11	1.9	J	2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3DUP-G-39736</u>	Lab Sample ID: <u>200-37699-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_12.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:32</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 20:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	130		2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	1.2	J	5.0	0.77
95-47-6	Xylene, o-	106.17	0.44	J	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	0.88	J	2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG3DUP-G-39736 Lab Sample ID: 200-37699-7
Matrix: Air Lab File ID: 24297_12.d
Analysis Method: TO-15 Date Collected: 03/08/2017 13:32
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 20:13
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3DUP-G-39736</u>	Lab Sample ID: <u>200-37699-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_12.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:32</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 20:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.6	J	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	23		10	3.3
106-97-8	n-Butane	58.12	24		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	360		120	31
67-63-0	Isopropyl alcohol	60.10	100	J	120	3.2
75-15-0	Carbon disulfide	76.14	230		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	10000	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	12	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	3.5	J	9.3	2.0
71-43-2	Benzene	78.11	6.0	J	6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGSG3DUP-G-39736</u>	Lab Sample ID: <u>200-37699-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_12.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:32</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 20:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	480		7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	5.2	J	22	3.3
95-47-6	Xylene, o-	106.17	1.9	J	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	4.3	J	9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGSG3DUP-G-39736 Lab Sample ID: 200-37699-7
Matrix: Air Lab File ID: 24297_12.d
Analysis Method: TO-15 Date Collected: 03/08/2017 13:32
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 20:13
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGBKGD-G-39737</u>	Lab Sample ID: <u>200-37699-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_13.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:24</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 21:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.55	J	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	5.0	U	5.0	1.6
106-97-8	n-Butane	58.12	4.1	J	5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	50	U	50	13
67-63-0	Isopropyl alcohol	60.10	4.4	J	50	1.3
75-15-0	Carbon disulfide	76.14	5.0	U	5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	3.7	J	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	50	U	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	2.0	U	2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGBKGD-G-39737</u>	Lab Sample ID: <u>200-37699-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_13.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:24</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 21:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	0.42	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	2.0	U	2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGBKGD-G-39737 Lab Sample ID: 200-37699-8
Matrix: Air Lab File ID: 24297_13.d
Analysis Method: TO-15 Date Collected: 03/08/2017 13:24
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 21:03
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGBKGD-G-39737</u>	Lab Sample ID: <u>200-37699-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_13.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:24</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 21:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.7	J	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	10	U	10	3.3
106-97-8	n-Butane	58.12	9.8	J	12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	120	U	120	31
67-63-0	Isopropyl alcohol	60.10	11	J	120	3.2
75-15-0	Carbon disulfide	76.14	16	U	16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	11	J	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	150	U	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	6.4	U	6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: <u>AGBKGD-G-39737</u>	Lab Sample ID: <u>200-37699-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_13.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>03/08/2017 13:24</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>03/13/2017 21:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	1.6	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	9.8	U	9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: AGBKGD-G-39737 Lab Sample ID: 200-37699-8
Matrix: Air Lab File ID: 24297_13.d
Analysis Method: TO-15 Date Collected: 03/08/2017 13:24
Sample wt/vol: 20 (mL) Date Analyzed: 03/13/2017 21:03
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220

SDG No.: Agra, KS (37699)

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-114220/6	23991_06.d
Level 2	IC 200-114220/7	23991_07.d
Level 3	IC 200-114220/8	23991_08.d
Level 4	IC 200-114220/9	23991_09.d
Level 5	ICIS 200-114220/10	23991_10.d
Level 6	IC 200-114220/11	23991_11.d
Level 7	IC 200-114220/12	23991_12.d
Level 8	IC 200-114220/13	23991_13.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	++++ 0.9455	++++ 0.8765	++++ 0.9604	0.8976	1.0274	Ave		0.9415				6.3		30.0			
Dichlorodifluoromethane	++++ 3.2346	++++ 3.0628	++++ 4.0957 3.3514	3.0370	3.4800	Ave		3.3769				11.6		30.0			
Freon 22	++++ 1.8111	++++ 1.6781	2.3052 1.8350	1.7117	1.9544	Ave		1.8826				12.2		30.0			
1,2-Dichlorotetrafluoroethane	++++ 3.4219	4.2517 3.2148	4.2289 3.5388	3.2318	3.7093	Ave		3.6568				11.9		30.0			
Chloromethane	++++ 1.1133	++++ 1.0402	1.4691 1.1326	1.0671	1.2214	Ave		1.1739				13.4		30.0			
n-Butane	++++ 1.7785	++++ 1.6630	2.4504 1.8340	1.7654	2.0231	Ave		1.9191				14.9		30.0			
Vinyl chloride	1.4322 1.3283	1.6557 1.2457	1.6343 1.3606	1.2938	1.4634	Ave		1.4267				10.6		30.0			
1,3-Butadiene	1.1681 0.9475	1.1431 0.8664	1.2205 0.9683	0.9205	1.0348	Ave		1.0337				12.5		30.0			
Bromomethane	++++ 1.2718	1.5522 1.2339	1.5028 1.3437	1.1831	1.3483	Ave		1.3480				10.1		30.0			
Chloroethane	++++ 0.6867	++++ 0.6504	0.8555 0.7188	0.6469	0.7327	Ave		0.7152				10.8		30.0			
Isopentane	++++ 1.2180	1.5975 1.1444	1.5457 1.2523	1.1733	1.3155	Ave		1.3209				13.7		30.0			
Bromoethene (Vinyl Bromide)	++++ 1.3577	1.5570 1.2978	1.5754 1.4313	1.2525	1.4371	Ave		1.4155				8.7		30.0			
Trichlorofluoromethane	++++ 2.8215	3.4720 2.6540	3.5509 2.9119	2.6861	3.0555	Ave		3.0217				12.0		30.0			
n-Pentane	++++ 1.7482	++++ 1.6575	2.2059 1.8083	1.7012	1.9113	Ave		1.8387				10.9		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220
SDG No.: Agra, KS (37699)
Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	++++ 0.3897	++++ 0.3662	0.5278 0.3868	0.4205	0.4571	Ave		0.4247				14.0		30.0			
Ethyl ether	++++ 0.7321	0.7871 0.6968	0.8298 0.7812	0.6841	0.7847	Ave		0.7565				7.1		30.0			
Acrolein	++++ 0.3407	++++ 0.2349	++++ 0.3538	0.3046	0.3423	Ave		0.3152				15.4		30.0			
Freon TF	++++ 2.3575	3.0164 2.2324	2.9306 2.4497	2.2362	2.5286	Ave		2.5359				12.6		30.0			
1,1-Dichloroethene	++++ 1.1512	1.4675 1.1107	1.3970 1.2372	1.0949	1.2562	Ave		1.2450				11.5		30.0			
Acetone	++++ 1.3162	++++ 1.1885	++++ 1.2587	1.4236	1.5046	Ave		1.3383				9.5		30.0			
Carbon disulfide	++++ 2.8209	++++ 2.6782	3.4032 2.9605	2.6591	3.0522	Ave		2.9290				9.5		30.0			
Isopropyl alcohol	++++ 1.3208	++++ 1.3126	++++ 1.3684	1.3022	1.5142	Ave		1.3636				6.4		30.0			
3-Chloropropene	++++ 1.0398	1.1216 0.9943	1.2045 1.1075	0.9765	1.1097	Ave		1.0791				7.4		30.0			
Acetonitrile	++++ 0.5963	++++ 0.5665	++++ 0.6385	0.5573	0.6462	Ave		0.6010				6.7		30.0			
Methylene Chloride	++++ 0.9517	++++ 0.9152	1.2961 0.9978	0.9185	1.0330	Ave		1.0187				14.1		30.0			
tert-Butyl alcohol	++++ 1.8659	++++ 1.7727	++++ 1.9818	1.7809	2.1075	Ave		1.9018				7.5		30.0			
Methyl tert-butyl ether	++++ 2.9281	3.1804 2.7702	3.3737 3.0749	2.7067	3.1288	Ave		3.0233				7.8		30.0			
trans-1,2-Dichloroethene	++++ 1.3559	1.6058 1.2870	1.5951 1.4414	1.2808	1.4553	Ave		1.4316				9.3		30.0			
Acrylonitrile	++++ 0.6488	++++ 0.6096	0.6994 0.7097	0.5823	0.6903	Ave		0.6567				7.9		30.0			
n-Hexane	++++ 1.5062	1.8212 1.4318	1.7699 1.5905	1.4117	1.6220	Ave		1.5933				9.9		30.0			
1,1-Dichloroethane	2.1197 1.8046	2.1650 1.7183	2.2094 1.8874	1.7084	1.9290	Ave		1.9427				10.3		30.0			
Vinyl acetate	++++ 1.9915	++++ 1.9244	++++ 2.1566	1.7767	2.1075	Ave		1.9914				7.6		30.0			
cis-1,2-Dichloroethene	++++ 1.2466	1.5057 1.1968	1.4762 1.3240	1.1597	1.3365	Ave		1.3208				10.0		30.0			
Methyl Ethyl Ketone	++++ 0.5471	++++ 0.5160	0.6615 0.5753	0.5030	0.5771	Ave		0.5633				10.1		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220
SDG No.: Agra, KS (37699)
Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	++++ 0.0976	++++ 0.0921	++++ 0.1051	0.0837	0.1051	Ave		0.0967				9.4		30.0			
Tetrahydrofuran	++++ 0.2055	++++ 0.2164	++++ 0.2250	0.1959	0.2275	Ave		0.2140				6.2		30.0			
Chloroform	++++ 2.1478	2.6354 2.0378	2.6700 2.2429	2.0586	2.3302	Ave		2.3032				11.3		30.0			
Cyclohexane	++++ 0.3394	0.3948 0.3569	0.4177 0.3720	0.3245	0.3751	Ave		0.3686				8.6		30.0			
1,1,1-Trichloroethane	++++ 0.4553	0.5989 0.4796	0.6166 0.4931	0.4451	0.5103	Ave		0.5141				13.2		30.0			
Carbon tetrachloride	0.5069 0.4895	0.6146 0.5144	0.6046 0.5297	0.4628	0.5423	Ave		0.5331				10.0		30.0			
2,2,4-Trimethylpentane	++++ 1.0640	1.2604 1.1305	1.3388 1.1508	1.0166	1.1845	Ave		1.1636				9.5		30.0			
Benzene	++++ 0.7320	1.0601 0.7745	0.9945 0.8030	0.7061	0.8205	Ave		0.8415				15.9		30.0			
1,2-Dichloroethane	++++ 0.2460	0.3091 0.2604	0.3313 0.2689	0.2365	0.2717	Ave		0.2748				12.4		30.0			
n-Heptane	++++ 0.3446	0.4423 0.3643	0.4396 0.3716	0.3327	0.3852	Ave		0.3829				11.3		30.0			
n-Butanol	++++ 0.1267	++++ 0.1335	++++ 0.1457	0.1153	0.1476	Ave		0.1338				10.1		30.0			
Trichloroethene	0.4184 0.3350	0.4244 0.3525	0.4441 0.3660	0.3295	0.3710	Ave		0.3801				11.4		30.0			
1,2-Dichloropropane	++++ 0.2641	0.3477 0.2813	0.3428 0.2907	0.2524	0.2920	Ave		0.2958				12.4		30.0			
Methyl methacrylate	++++ 0.2573	++++ 0.2604	0.2931 0.2873	0.2365	0.2800	Ave		0.2691				8.0		30.0			
1,4-Dioxane	++++ 0.1455	++++ 0.1465	++++ 0.1571	0.1446	0.1692	Ave		0.1526				6.9		30.0			
Dibromomethane	++++ 0.3922	0.5308 0.4785	0.5366 0.4309	0.3761	0.4349	Ave		0.4543				14.0		30.0			
Bromodichloromethane	++++ 0.5079	0.6324 0.5209	0.6385 0.5514	0.4890	0.5614	Ave		0.5574				10.5		30.0			
cis-1,3-Dichloropropene	++++ 0.4002	0.4439 0.4249	0.4647 0.4468	0.3680	0.4337	Ave		0.4260				7.6		30.0			
methyl isobutyl ketone	++++ 0.4362	++++ 0.4437	0.4930 0.4746	0.4167	0.4793	Ave		0.4573				6.4		30.0			
n-Octane	++++ 0.4816	0.5593 0.5038	0.6104 0.4945	0.4712	0.5433	Ave		0.5234				9.5		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220
SDG No.: Agra, KS (37699)
Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Toluene	++++ 0.6339	0.7788 0.6585	0.8052 0.6562	0.6138	0.6980	Ave		0.6920				10.6		30.0			
trans-1,3-Dichloropropene	++++ 0.3820	0.3938 0.4067	0.4392 0.4312	0.3503	0.4098	Ave		0.4019				7.5		30.0			
1,1,2-Trichloroethane	++++ 0.3037	++++ 0.3165	0.3783 0.3250	0.2906	0.3327	Ave		0.3245				9.4		30.0			
Tetrachloroethene	0.7273 0.6400	0.8081 0.6611	0.8357 0.6751	0.6274	0.7102	Ave		0.7106				10.8		30.0			
Methyl Butyl Ketone (2-Hexanone)	++++ 0.4561	++++ 0.4347	0.4377 0.4825	0.4211	0.4876	Ave		0.4533				6.0		30.0			
Dibromochloromethane	++++ 0.7102	0.7686 0.6530	0.6458 0.7480	0.6567	0.7650	Ave		0.7353				9.3		30.0			
1,2-Dibromoethane	++++ 0.5863	0.6978 0.6076	0.6953 0.6325	0.5450	0.6360	Ave		0.6286				8.8		30.0			
Chlorobenzene	++++ 0.9077	1.1261 0.9403	1.1499 0.9582	0.8640	0.9899	Ave		0.9909				10.9		30.0			
Ethylbenzene	++++ 1.3562	1.6328 1.4046	1.7036 1.4002	1.3005	1.4905	Ave		1.4698				10.1		30.0			
n-Nonane	++++ 0.5793	0.6869 0.5991	0.7239 0.5883	0.5644	0.6476	Ave		0.6271				9.6		30.0			
m,p-Xylene	++++ 0.5795	0.6657 0.5948	0.7221 0.5846	0.5527	0.6408	Ave		0.6200				9.5		30.0			
Xylene, o-	++++ 0.5776	0.6373 0.5976	0.6780 0.6025	0.5443	0.6314	Ave		0.6098				7.2		30.0			
Styrene	++++ 0.8665	0.8436 0.8891	0.9718 0.9219	0.7883	0.9354	Ave		0.8881				6.9		30.0			
Bromoform	++++ 0.7454	0.6585 0.4773	0.7686 0.7735	0.6261	0.7757	Ave		0.6893				16.1		30.0			
Cumene	++++ 1.6033	2.0334 1.6632	1.9227 1.6105	1.5546	1.7812	Ave		1.7384				10.4		30.0			
1,1,2,2-Tetrachloroethane	++++ 0.7997	1.0199 0.8189	1.0181 0.8221	0.7589	0.8877	Ave		0.8750				12.0		30.0			
n-Propylbenzene	++++ 1.8954	2.2267 1.9332	2.3173 1.8554	1.8265	2.1040	Ave		2.0226				9.6		30.0			
1,2,3-Trichloropropane	++++ 0.5755	++++ 0.5898	0.7433 0.5894	0.5512	0.6358	Ave		0.6142				11.2		30.0			
n-Decane	++++ 0.7817	++++ 0.7954	0.9529 0.7591	0.7597	0.8693	Ave		0.8197				9.4		30.0			
4-Ethyltoluene	++++ 1.6300	1.8551 1.6712	1.9984 1.5972	1.5723	1.7957	Ave		1.7314				9.1		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220
SDG No.: Agra, KS (37699)
Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	++++ 1.2850	1.5792 1.3181	1.6159 1.2887	1.2270	1.4122	Ave		1.3894				11.0		30.0			
1,3,5-Trimethylbenzene	++++ 1.3477	1.4726 1.3773	1.6704 1.3525	1.3056	1.4775	Ave		1.4291				8.7		30.0			
Alpha Methyl Styrene	++++ 0.7359	0.6465 0.7254	0.7520 0.7771	0.6648	0.7892	Ave		0.7273				7.4		30.0			
tert-Butylbenzene	++++ 1.3581	1.5819 1.3884	1.6579 1.3493	1.3298	1.5146	Ave		1.4543				8.9		30.0			
1,2,4-Trimethylbenzene	++++ 1.3483	1.4342 1.3823	1.6419 1.3441	1.3000	1.4878	Ave		1.4198				8.2		30.0			
sec-Butylbenzene	++++ 2.0215	2.3281 2.0568	1.6785 1.9427	1.9826	2.2574	Ave		2.1525				9.4		30.0			
4-Isopropyltoluene	++++ 1.7483	1.8638 1.7798	2.0646 1.6993	1.6905	1.9317	Ave		1.8254				7.5		30.0			
1,3-Dichlorobenzene	++++ 1.0075	1.0412 1.0372	1.1623 1.0478	0.9119	1.0780	Ave		1.0409				7.2		30.0			
1,4-Dichlorobenzene	++++ 0.9830	0.9132 1.0169	1.0703 1.0456	0.8742	1.0406	Ave		0.9920				7.4		30.0			
Benzyl chloride	++++ 0.9949	0.8092 1.0538	0.9110 1.1168	0.9071	1.0020	Ave		0.9707				10.6		30.0			
n-Undecane	++++ 0.8404	++++ 0.8410	++++ 0.7283	0.7937	0.9091	Ave		0.8225				8.1		30.0			
n-Butylbenzene	++++ 1.4784	1.4310 1.4814	1.6293 1.3640	1.4164	1.6285	Ave		1.4899				6.9		30.0			
1,2-Dichlorobenzene	++++ 0.9428	1.0027 0.9802	1.1042 1.0004	0.8683	1.0188	Ave		0.9882				7.3		30.0			
n-Dodecane	++++ 0.6515	++++ 0.6818	++++ 0.6287	0.4848	0.5981	Ave		0.6090				12.5		30.0			
1,2,4-Trichlorobenzene	++++ 0.6006	++++ 0.6710	0.4036 0.6870	0.4044	0.5917	Ave		0.5597				22.6		30.0			
Hexachlorobutadiene	++++ 0.5969	0.7554 0.6185	0.7504 0.6263	0.5576	0.6471	Ave		0.6503				11.6		30.0			
Naphthalene	++++ 1.0647	++++ 1.3183	0.7114 1.3329	0.6058	1.0205	Ave		1.0089				29.9		30.0			
1,2,3-Trichlorobenzene	++++ 0.5094	++++ 0.5831	0.4267 0.6105	0.3446	0.5011	Ave		0.4959				19.9		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220

SDG No.: Agra, KS (37699)

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-114220/6	23991_06.d
Level 2	IC 200-114220/7	23991_07.d
Level 3	IC 200-114220/8	23991_08.d
Level 4	IC 200-114220/9	23991_09.d
Level 5	ICIS 200-114220/10	23991_10.d
Level 6	IC 200-114220/11	23991_11.d
Level 7	IC 200-114220/12	23991_12.d
Level 8	IC 200-114220/13	23991_13.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 447854	++++ 612329	++++ 1230142	135898	281306	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 1532191	++++ 2139820	54943 4292711	459794	952835	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 857885	++++ 1172401	30923 2350415	259142	535124	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1620923	21494 2246023	56730 4532719	489286	1015638	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 527363	++++ 726699	19707 1450678	161553	334420	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 842472	++++ 1161810	32871 2349115	267277	553928	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	1627 629199	8370 870283	21923 1742703	195882	400676	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	1327 448805	5779 605330	16372 1240207	139359	283335	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 602436	7847 862021	20159 1721123	179114	369184	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 325304	++++ 454371	11476 920721	97937	200621	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 576948	8076 799513	20735 1603955	177636	360185	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 643146	7871 906710	21133 1833246	189625	393484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 1336527	17552 1854190	47634 3729724	406663	836603	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 828126	++++ 1157988	29591 2316123	257560	523319	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 246634	++++ 511734	70883 1238598	127395	187797	++++ 20.0	++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220

SDG No.: Agra, KS (37699)

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	++++ 346788	3979 486836	11132 1000600	103571	214852	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	++++ 161370	++++ 164077	++++ 453173	46115	93716	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	++++ 1116714	15249 1559611	39313 3137740	338553	692332	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	++++ 545323	7419 776000	18740 1584642	165770	343942	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	++++ 623471	++++ 830332	++++ 1612220	215530	411967	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	++++ 1336235	++++ 1871111	45653 3792007	402583	835711	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	++++ 625636	++++ 917001	++++ 1752714	197147	414599	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	++++ 492563	++++ 694649	5670 1418544	147833	303831	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 282448	++++ 395805	++++ 817771	84376	176934	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	++++ 450802	++++ 639377	17387 1278045	139058	282839	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	++++ 883841	++++ 1238503	++++ 2538430	269627	577033	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 1386994	++++ 1935381	16078 3938536	409784	856689	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 642300	++++ 899172	8118 1846229	193909	398461	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	++++ 307344	++++ 425885	++++ 9382 909023	88153	189005	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 713486	++++ 1000316	9207 2037142	213726	444106	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	++++ 854818	++++ 1200482	2408 2417492	258649	528161	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	++++ 943345	++++ 1344491	++++ 2762344	268991	577057	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	++++ 590494	++++ 836141	7612 1695890	175573	365936	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 259157	++++ 360486	++++ 8874 736911	76149	158015	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	++++ 46250	++++ 64318	++++ 134681	12674	28785	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Tetrahydrofuran	DFBZ	Ave	++++ 461332	++++ 646446	++++ 1312166	138090	286387	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220

SDG No.: Agra, KS (37699)

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 1017390	13323 1423678	35817 2872805	311666	638022	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 761984	8782 1066390	24417 2169207	228806	472271	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 1022215	13321 1432969	36042 2875462	313841	642482	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	2796 1098963	13670 1536996	35344 3088753	326291	682783	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 2388850	28035 3377852	78265 6710491	716718	1491194	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 1643511	23580 2314125	58133 4682782	497823	1033004	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	++++ 552233	6875 778008	19364 1567896	166716	341997	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 773686	9838 1088586	25699 2166930	234588	484931	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 284477	++++ 398899	++++ 849507	81281	185883	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	2308 752142	9439 1053301	25962 2134531	232310	467054	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 592964	7733 840394	20038 1694928	177921	367664	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 577679	++++ 778083	17135 1675634	166775	352489	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 326642	++++ 437602	++++ 916389	101932	212961	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 880529	11807 1429847	31369 2513035	265184	547473	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 1140347	14067 1556520	37322 3215391	344764	706725	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 898536	9873 1269474	27167 2605441	259482	546031	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 979383	++++ 1325645	28820 2767558	293807	603437	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 1081319	12439 1505348	35683 2883495	332205	684025	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 1286697	15477 1805368	42456 3542399	387318	799064	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 857764	8758 1215181	25677 2514611	246951	515880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 616507	++++ 867831	19950 1754465	183359	380891	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220

SDG No.: Agra, KS (37699)

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	3542 1299246	16060 1812723	44065 3644383	395874	812981	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 925920	++++ 1191872	23078 2604704	265711	558165	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 1441722	15274 1790382	44599 4038128	414373	875776	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 1190195	13868 1665879	36663 3414470	343881	728099	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	++++ 1842512	22379 2578195	60633 5172893	545189	1133200	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	++++ 2753023	32448 3851294	89831 7558985	820624	1706306	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	++++ 1175874	13651 1642621	38169 3175720	356130	741326	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	++++ 2352757	26458 3261401	76147 6311984	697528	1467248	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	++++ 1172444	12665 1638471	35752 3252266	343446	722826	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	++++ 1758988	16764 2437683	51240 4976973	497406	1070851	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	++++ 1513049	13086 1308674	40526 4175373	395099	888037	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	++++ 3254638	40410 4560073	101381 8693889	980943	2039139	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 1623379	20268 2245144	53681 4438112	478887	1016177	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	++++ 3847439	44251 5300574	122190 10016297	1152528	2408611	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 1168175	++++ 1617170	39191 3182037	347793	727846	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	++++ 1586772	++++ 2180888	50246 4098077	479382	995167	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	++++ 3308742	36866 4582191	105375 8622092	992139	2055735	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	++++ 2608503	31383 3613998	85205 6956935	774221	1616651	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 2735651	29265 3776267	88081 7301533	823845	1691470	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 1493838	12848 1988856	39651 4195137	419479	903453	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	++++ 2756883	31437 3806804	87422 7284145	839130	1733934	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-37699-1 Analy Batch No.: 114220

SDG No.: Agra, KS (37699)

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2017 16:27 Calibration End Date: 02/18/2017 22:37 Calibration ID: 36656

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 2737047	28501 3790136	86576 7256124	820319	1703218	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 4103451	46267 5639314	130691 10487637	1251007	2584209	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 3548937	37040 4879851	108863 9173646	1066701	2211375	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 2045162	20692 2843695	61288 5656583	575429	1234116	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 1995390	18148 2788037	56435 5644469	551620	1191258	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 2019500	16082 2889197	48034 6028863	572360	1147034	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 1705939	++++ 2305824	++++ 3931505	500844	1040671	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 3000959	28439 4061852	85911 7363135	893787	1864283	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 1913870	19926 2687413	58222 5400437	547908	1166318	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 1322533	++++ 1869491	++++ 3394051	305883	684673	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 1219268	++++ 1839792	21279 3708889	255187	677348	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 1211586	15012 1695859	39569 3381033	351857	740807	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 2161256	++++ 3614464	37513 7195441	382234	1168218	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 1034127	++++ 1598823	22500 3295565	217421	573670	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab Sample ID: ICV 200-114220/20 Calibration Date: 02/19/2017 04:45
 Instrument ID: CHW.i Calib Start Date: 02/18/2017 16:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 02/18/2017 22:37
 Lab File ID: 23991_20.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.9415	0.8299		8.81	10.0	-11.8	30.0
Dichlorodifluoromethane	Ave	3.377	3.039		9.00	10.0	-10.0	30.0
Freon 22	Ave	1.883	1.641		8.72	10.0	-12.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.657	3.620		9.90	10.0	-1.0	30.0
Chloromethane	Ave	1.174	1.007		8.57	10.0	-14.2	30.0
n-Butane	Ave	1.919	1.651		8.60	10.0	-14.0	30.0
Vinyl chloride	Ave	1.427	1.224		8.57	10.0	-14.2	30.0
1,3-Butadiene	Ave	1.034	0.8637		8.35	10.0	-16.4	30.0
Bromomethane	Ave	1.348	1.226		9.10	10.0	-9.0	30.0
Chloroethane	Ave	0.7152	0.6516		9.11	10.0	-8.9	30.0
Isopentane	Ave	1.321	1.260		9.54	10.0	-4.6	30.0
Bromoethene (Vinyl Bromide)	Ave	1.416	1.287		9.09	10.0	-9.0	30.0
Trichlorofluoromethane	Ave	3.022	2.695		8.92	10.0	-10.8	30.0
n-Pentane	Ave	1.839	1.856		10.1	10.0	0.9	30.0
Ethanol	Ave	0.4247	0.3917		13.8	15.0	-7.8	30.0
Ethyl ether	Ave	0.7565	0.7974		10.5	10.0	5.4	30.0
Acrolein	Ave	0.3152	0.3770		12.0	10.0	19.6	30.0
Freon TF	Ave	2.536	2.307		9.10	10.0	-9.0	30.0
1,1-Dichloroethene	Ave	1.245	1.127		9.05	10.0	-9.4	30.0
Acetone	Ave	1.338	1.257		9.39	10.0	-6.1	30.0
Carbon disulfide	Ave	2.929	3.201		10.9	10.0	9.3	30.0
Isopropyl alcohol	Ave	1.364	1.168		8.56	10.0	-14.3	30.0
3-Chloropropene	Ave	1.079	0.9654		8.94	10.0	-10.5	30.0
Acetonitrile	Ave	0.6010	0.6173		10.3	10.0	2.7	30.0
Methylene Chloride	Ave	1.019	0.9445		9.27	10.0	-7.3	30.0
tert-Butyl alcohol	Ave	1.902	1.711		9.00	10.0	-10.0	30.0
Methyl tert-butyl ether	Ave	3.023	2.852		9.43	10.0	-5.7	30.0
trans-1,2-Dichloroethene	Ave	1.432	1.407		9.82	10.0	-1.7	30.0
Acrylonitrile	Ave	0.6567	0.6679		10.2	10.0	1.7	30.0
n-Hexane	Ave	1.593	1.598		10.0	10.0	0.3	30.0
1,1-Dichloroethane	Ave	1.943	1.799		9.26	10.0	-7.4	30.0
Vinyl acetate	Ave	1.991	2.023		10.2	10.0	1.6	30.0
cis-1,2-Dichloroethene	Ave	1.321	1.214		9.19	10.0	-8.1	30.0
Methyl Ethyl Ketone	Ave	0.5633	0.5379		9.55	10.0	-4.5	30.0
Ethyl acetate	Ave	0.0967	0.1034		10.7	10.0	6.9	30.0
Tetrahydrofuran	Ave	0.2140	0.2050		9.58	10.0	-4.2	30.0
Chloroform	Ave	2.303	2.109		9.15	10.0	-8.4	30.0
Cyclohexane	Ave	0.3686	0.3379		9.16	10.0	-8.3	30.0
1,1,1-Trichloroethane	Ave	0.5141	0.4427		8.61	10.0	-13.9	30.0
Carbon tetrachloride	Ave	0.5331	0.4581		8.59	10.0	-14.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab Sample ID: ICV 200-114220/20 Calibration Date: 02/19/2017 04:45
 Instrument ID: CHW.i Calib Start Date: 02/18/2017 16:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 02/18/2017 22:37
 Lab File ID: 23991_20.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	1.164	1.044		8.97	10.0	-10.3	30.0
Benzene	Ave	0.8415	0.7265		8.63	10.0	-13.7	30.0
1,2-Dichloroethane	Ave	0.2748	0.2383		8.67	10.0	-13.3	30.0
n-Heptane	Ave	0.3829	0.3393		8.86	10.0	-11.4	30.0
n-Butanol	Ave	0.1338	0.1265		9.46	10.0	-5.4	30.0
Trichloroethene	Ave	0.3801	0.3313		8.71	10.0	-12.8	30.0
1,2-Dichloropropane	Ave	0.2958	0.2597		8.78	10.0	-12.2	30.0
Methyl methacrylate	Ave	0.2691	0.2529		9.39	10.0	-6.0	30.0
1,4-Dioxane	Ave	0.1526	0.1345		8.81	10.0	-11.8	30.0
Dibromomethane	Ave	0.4543	0.3729		8.21	10.0	-17.9	30.0
Bromodichloromethane	Ave	0.5574	0.4829		8.66	10.0	-13.4	30.0
cis-1,3-Dichloropropene	Ave	0.4260	0.3904		9.16	10.0	-8.4	30.0
methyl isobutyl ketone	Ave	0.4573	0.4126		9.02	10.0	-9.8	30.0
n-Octane	Ave	0.5234	0.4761		9.09	10.0	-9.0	30.0
Toluene	Ave	0.6920	0.6180		8.93	10.0	-10.7	30.0
trans-1,3-Dichloropropene	Ave	0.4019	0.3671		9.13	10.0	-8.6	30.0
1,1,2-Trichloroethane	Ave	0.3245	0.2981		9.19	10.0	-8.1	30.0
Tetrachloroethene	Ave	0.7106	0.6145		8.65	10.0	-13.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.4533	0.4180		9.22	10.0	-7.8	30.0
Dibromochloromethane	Ave	0.7353	0.6424		8.73	10.0	-12.6	30.0
1,2-Dibromoethane	Ave	0.6286	0.5631		8.95	10.0	-10.4	30.0
Chlorobenzene	Ave	0.9909	0.8707		8.79	10.0	-12.1	30.0
Ethylbenzene	Ave	1.470	1.303		8.86	10.0	-11.3	30.0
n-Nonane	Ave	0.6271	0.5666		9.03	10.0	-9.6	30.0
m,p-Xylene	Ave	0.6200	0.5503		17.7	20.0	-11.2	30.0
Xylene, o-	Ave	0.6098	0.5403		8.86	10.0	-11.4	30.0
Styrene	Ave	0.8881	0.8118		9.14	10.0	-8.6	30.0
Bromoform	Ave	0.6893	0.6533		9.48	10.0	-5.2	30.0
Cumene	Ave	1.738	1.507		8.67	10.0	-13.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8750	0.7699		8.80	10.0	-12.0	30.0
n-Propylbenzene	Ave	2.023	1.776		8.78	10.0	-12.2	30.0
1,2,3-Trichloropropane	Ave	0.6142	0.5352		8.71	10.0	-12.8	30.0
n-Decane	Ave	0.8197	0.7348		8.96	10.0	-10.4	30.0
4-Ethyltoluene	Ave	1.731	1.555		8.98	10.0	-10.2	30.0
2-Chlorotoluene	Ave	1.389	1.201		8.64	10.0	-13.6	30.0
1,3,5-Trimethylbenzene	Ave	1.429	1.260		8.82	10.0	-11.8	30.0
Alpha Methyl Styrene	Ave	0.7273	0.6749		9.28	10.0	-7.2	30.0
tert-Butylbenzene	Ave	1.454	1.263		8.68	10.0	-13.1	30.0
1,2,4-Trimethylbenzene	Ave	1.420	1.246		8.78	10.0	-12.2	30.0
sec-Butylbenzene	Ave	2.153	1.875		8.71	10.0	-12.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab Sample ID: ICV 200-114220/20 Calibration Date: 02/19/2017 04:45
 Instrument ID: CHW.i Calib Start Date: 02/18/2017 16:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 02/18/2017 22:37
 Lab File ID: 23991_20.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.825	1.606		8.80	10.0	-12.0	30.0
1,3-Dichlorobenzene	Ave	1.041	0.9155		8.79	10.0	-12.0	30.0
1,4-Dichlorobenzene	Ave	0.9920	0.8933		9.00	10.0	-10.0	30.0
Benzyl chloride	Ave	0.9707	0.8572		8.83	10.0	-11.7	30.0
n-Undecane	Ave	0.8225	0.7594		9.23	10.0	-7.7	30.0
n-Butylbenzene	Ave	1.490	1.352		9.07	10.0	-9.2	30.0
1,2-Dichlorobenzene	Ave	0.9882	0.8569		8.67	10.0	-13.3	30.0
n-Dodecane	Ave	0.6090	0.4700		7.72	10.0	-22.8	30.0
1,2,4-Trichlorobenzene	Ave	0.5597	0.4867		8.69	10.0	-13.1	30.0
Hexachlorobutadiene	Ave	0.6503	0.5284		8.12	10.0	-18.7	30.0
Naphthalene	Ave	1.009	0.7855		7.78	10.0	-22.1	30.0
1,2,3-Trichlorobenzene	Ave	0.4959	0.3826		7.71	10.0	-22.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab Sample ID: CCVIS 200-114860/2 Calibration Date: 03/13/2017 11:35
 Instrument ID: CHW.i Calib Start Date: 02/18/2017 16:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 02/18/2017 22:37
 Lab File ID: 24297_02.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.9415	1.105		11.7	10.0	17.4	30.0
Dichlorodifluoromethane	Ave	3.377	3.508		10.4	10.0	3.9	30.0
Freon 22	Ave	1.883	1.982		10.5	10.0	5.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.657	3.588		9.81	10.0	-1.9	30.0
Chloromethane	Ave	1.174	1.170		9.96	10.0	-0.4	30.0
n-Butane	Ave	1.919	1.846		9.61	10.0	-3.8	30.0
Vinyl chloride	Ave	1.427	1.367		9.58	10.0	-4.2	30.0
1,3-Butadiene	Ave	1.034	0.9726		9.41	10.0	-5.9	30.0
Bromomethane	Ave	1.348	1.281		9.50	10.0	-5.0	30.0
Chloroethane	Ave	0.7152	0.6671		9.33	10.0	-6.7	30.0
Isopentane	Ave	1.321	1.184		8.96	10.0	-10.3	30.0
Bromoethene (Vinyl Bromide)	Ave	1.416	1.328		9.38	10.0	-6.2	30.0
Trichlorofluoromethane	Ave	3.022	2.984		9.87	10.0	-1.2	30.0
n-Pentane	Ave	1.839	1.678		9.13	10.0	-8.7	30.0
Ethanol	Ave	0.4247	0.3546		12.5	15.0	-16.5	30.0
Ethyl ether	Ave	0.7565	0.7101		9.38	10.0	-6.1	30.0
Acrolein	Ave	0.3152	0.2145		6.80	10.0	-32.0*	30.0
Freon TF	Ave	2.536	2.376		9.37	10.0	-6.3	30.0
1,1-Dichloroethene	Ave	1.245	1.139		9.15	10.0	-8.5	30.0
Acetone	Ave	1.338	1.263		9.44	10.0	-5.6	30.0
Isopropyl alcohol	Ave	1.364	1.316		9.65	10.0	-3.5	30.0
Carbon disulfide	Ave	2.929	2.770		9.46	10.0	-5.4	30.0
3-Chloropropene	Ave	1.079	0.8761		8.12	10.0	-18.8	30.0
Acetonitrile	Ave	0.6010	0.5711		9.50	10.0	-5.0	30.0
Methylene Chloride	Ave	1.019	0.9402		9.23	10.0	-7.7	30.0
tert-Butyl alcohol	Ave	1.902	1.792		9.42	10.0	-5.7	30.0
Methyl tert-butyl ether	Ave	3.023	2.875		9.51	10.0	-4.9	30.0
trans-1,2-Dichloroethene	Ave	1.432	1.338		9.35	10.0	-6.5	30.0
Acrylonitrile	Ave	0.6567	0.6063		9.23	10.0	-7.7	30.0
n-Hexane	Ave	1.593	1.424		8.94	10.0	-10.6	30.0
1,1-Dichloroethane	Ave	1.943	1.777		9.14	10.0	-8.6	30.0
Vinyl acetate	Ave	1.991	1.887		9.47	10.0	-5.2	30.0
cis-1,2-Dichloroethene	Ave	1.321	1.206		9.13	10.0	-8.7	30.0
Methyl Ethyl Ketone	Ave	0.5633	0.5156		9.15	10.0	-8.5	30.0
Ethyl acetate	Ave	0.0967	0.0900		9.30	10.0	-7.0	30.0
Tetrahydrofuran	Ave	0.2140	0.1965		9.18	10.0	-8.2	30.0
Chloroform	Ave	2.303	2.198		9.54	10.0	-4.6	30.0
Cyclohexane	Ave	0.3686	0.3203		8.69	10.0	-13.1	30.0
1,1,1-Trichloroethane	Ave	0.5141	0.4783		9.30	10.0	-7.0	30.0
Carbon tetrachloride	Ave	0.5331	0.5191		9.74	10.0	-2.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab Sample ID: CCVIS 200-114860/2 Calibration Date: 03/13/2017 11:35
 Instrument ID: CHW.i Calib Start Date: 02/18/2017 16:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 02/18/2017 22:37
 Lab File ID: 24297_02.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	1.164	0.9916		8.52	10.0	-14.8	30.0
Benzene	Ave	0.8415	0.7039		8.36	10.0	-16.4	30.0
1,2-Dichloroethane	Ave	0.2748	0.2627		9.56	10.0	-4.4	30.0
n-Heptane	Ave	0.3829	0.3290		8.59	10.0	-14.1	30.0
n-Butanol	Ave	0.1338	0.1134		8.48	10.0	-15.2	30.0
Trichloroethene	Ave	0.3801	0.3274		8.61	10.0	-13.9	30.0
1,2-Dichloropropane	Ave	0.2958	0.2464		8.33	10.0	-16.7	30.0
Methyl methacrylate	Ave	0.2691	0.2375		8.82	10.0	-11.7	30.0
1,4-Dioxane	Ave	0.1526	0.1371		8.98	10.0	-10.1	30.0
Dibromomethane	Ave	0.4543	0.4148		9.13	10.0	-8.7	30.0
Bromodichloromethane	Ave	0.5574	0.5103		9.15	10.0	-8.5	30.0
cis-1,3-Dichloropropene	Ave	0.4260	0.3702		8.69	10.0	-13.1	30.0
methyl isobutyl ketone	Ave	0.4573	0.3939		8.61	10.0	-13.9	30.0
n-Octane	Ave	0.5234	0.4657		8.89	10.0	-11.0	30.0
Toluene	Ave	0.6920	0.6306		9.11	10.0	-8.9	30.0
trans-1,3-Dichloropropene	Ave	0.4019	0.3645		9.07	10.0	-9.3	30.0
1,1,2-Trichloroethane	Ave	0.3245	0.2994		9.23	10.0	-7.7	30.0
Tetrachloroethene	Ave	0.7106	0.6751		9.50	10.0	-5.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.4533	0.3503		7.73	10.0	-22.7	30.0
Dibromochloromethane	Ave	0.7353	0.7118		9.68	10.0	-3.2	30.0
1,2-Dibromoethane	Ave	0.6286	0.5819		9.25	10.0	-7.4	30.0
Chlorobenzene	Ave	0.9909	0.8998		9.08	10.0	-9.2	30.0
Ethylbenzene	Ave	1.470	1.353		9.20	10.0	-8.0	30.0
n-Nonane	Ave	0.6271	0.5649		9.01	10.0	-9.9	30.0
m,p-Xylene	Ave	0.6200	0.5819		18.8	20.0	-6.2	30.0
Xylene, o-	Ave	0.6098	0.5691		9.33	10.0	-6.7	30.0
Styrene	Ave	0.8881	0.8650		9.74	10.0	-2.6	30.0
Bromoform	Ave	0.6893	0.7102		10.3	10.0	3.0	30.0
Cumene	Ave	1.738	1.674		9.63	10.0	-3.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8750	0.7972		9.11	10.0	-8.9	30.0
n-Propylbenzene	Ave	2.023	1.931		9.54	10.0	-4.5	30.0
1,2,3-Trichloropropane	Ave	0.6142	0.5861		9.54	10.0	-4.6	30.0
n-Decane	Ave	0.8197	0.7610		9.28	10.0	-7.2	30.0
4-Ethyltoluene	Ave	1.731	1.683		9.72	10.0	-2.8	30.0
2-Chlorotoluene	Ave	1.389	1.320		9.50	10.0	-5.0	30.0
1,3,5-Trimethylbenzene	Ave	1.429	1.380		9.66	10.0	-3.4	30.0
Alpha Methyl Styrene	Ave	0.7273	0.7006		9.63	10.0	-3.7	30.0
tert-Butylbenzene	Ave	1.454	1.422		9.77	10.0	-2.2	30.0
1,2,4-Trimethylbenzene	Ave	1.420	1.397		9.83	10.0	-1.6	30.0
sec-Butylbenzene	Ave	2.153	2.108		9.79	10.0	-2.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Lab Sample ID: CCVIS 200-114860/2 Calibration Date: 03/13/2017 11:35
 Instrument ID: CHW.i Calib Start Date: 02/18/2017 16:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 02/18/2017 22:37
 Lab File ID: 24297_02.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.825	1.824		9.99	10.0	-0.1	30.0
1,3-Dichlorobenzene	Ave	1.041	1.057		10.2	10.0	1.6	30.0
1,4-Dichlorobenzene	Ave	0.9920	1.011		10.2	10.0	1.9	30.0
Benzyl chloride	Ave	0.9707	0.8953		9.22	10.0	-7.8	30.0
n-Undecane	Ave	0.8225	0.8394		10.2	10.0	2.1	30.0
n-Butylbenzene	Ave	1.490	1.557		10.5	10.0	4.5	30.0
1,2-Dichlorobenzene	Ave	0.9882	0.9853		9.97	10.0	-0.3	30.0
n-Dodecane	Ave	0.6090	0.5006		8.22	10.0	-17.8	30.0
1,2,4-Trichlorobenzene	Ave	0.5597	0.6013		10.7	10.0	7.4	30.0
Hexachlorobutadiene	Ave	0.6503	0.6700		10.3	10.0	3.0	30.0
Naphthalene	Ave	1.009	1.094		10.8	10.0	8.4	30.0
1,2,3-Trichlorobenzene	Ave	0.4959	0.5043		10.2	10.0	1.7	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: _____ Lab Sample ID: MB 200-114860/4
Matrix: Air Lab File ID: 24297_04.d
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 13:20
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.047
75-45-6	Freon 22	86.47	0.50	U	0.50	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.041
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.16
106-97-8	n-Butane	58.12	0.50	U	0.50	0.046
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.018
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.037
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.036
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.13
593-60-2	Bromoethene (Vinyl Bromide)	106.96	0.20	U	0.20	0.022
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.031
76-13-1	Freon TF	187.38	0.20	U	0.20	0.027
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.035
67-64-1	Acetone	58.08	5.0	U	5.0	1.3
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.13
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.028
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.063
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.068
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	1.7
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.041
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.050
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.046
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.017
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.11
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.029
67-66-3	Chloroform	119.38	0.20	U	0.20	0.025
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.2
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.026
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.045
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.011
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.043
71-43-2	Benzene	78.11	0.20	U	0.20	0.028
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.034
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.068
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.0091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1

SDG No.: Agra, KS (37699)

Client Sample ID: _____ Lab Sample ID: MB 200-114860/4

Matrix: Air Lab File ID: 24297_04.d

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 13:20

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.11
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.035
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.76
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.059
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.036
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.065
108-88-3	Toluene	92.14	0.20	U	0.20	0.035
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.038
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.017
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.0098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.086
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.017
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.023
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.025
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.034
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.077
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.040
100-42-5	Styrene	104.15	0.20	U	0.20	0.035
75-25-2	Bromoform	252.75	0.20	U	0.20	0.035
98-82-8	Cumene	120.19	0.20	U	0.20	0.039
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.026
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.040
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.040
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.040
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.035
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.037
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.057
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.037
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.052
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.050
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.063
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.067
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.068
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.045

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: _____ Lab Sample ID: MB 200-114860/4
Matrix: Air Lab File ID: 24297_04.d
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 13:20
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.19
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.064
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.10

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37699-1</u>
SDG No.: <u>Agra, KS (37699)</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-114860/4</u>
Matrix: <u>Air</u>	Lab File ID: <u>24297_04.d</u>
Analysis Method: <u>TO-15</u>	Date Collected: _____
Sample wt/vol: <u>200 (mL)</u>	Date Analyzed: <u>03/13/2017 13:20</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>114860</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.23
75-45-6	Freon 22	86.47	1.8	U	1.8	0.71
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.29
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.33
106-97-8	n-Butane	58.12	1.2	U	1.2	0.11
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.046
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.082
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.14
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.34
593-60-2	Bromoethene (Vinyl Bromide)	106.96	0.87	U	0.87	0.096
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.17
76-13-1	Freon TF	187.38	1.5	U	1.5	0.21
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	12	U	12	3.1
67-63-0	Isopropyl alcohol	60.10	12	U	12	0.32
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.087
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.20
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.24
75-65-0	tert-Butyl alcohol	74.12	15	U	15	5.2
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.15
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.20
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.16
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.069
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.32
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.11
67-66-3	Chloroform	119.38	0.98	U	0.98	0.12
109-99-9	Tetrahydrofuran	72.11	15	U	15	3.5
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.14
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.15
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	0.069
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.20
71-43-2	Benzene	78.11	0.64	U	0.64	0.089
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.14
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.28
79-01-6	Trichloroethene	131.39	1.1	U	1.1	0.049

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: _____ Lab Sample ID: MB 200-114860/4
Matrix: Air Lab File ID: 24297_04.d
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 13:20
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.45
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.16
123-91-1	1,4-Dioxane	88.11	18	U	18	2.7
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.16
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.27
108-88-3	Toluene	92.14	0.75	U	0.75	0.13
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.17
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.093
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.066
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.35
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.14
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.18
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.12
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.15
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.33
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.17
100-42-5	Styrene	104.15	0.85	U	0.85	0.15
75-25-2	Bromoform	252.75	2.1	U	2.1	0.36
98-82-8	Cumene	120.19	0.98	U	0.98	0.19
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.18
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.20
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.20
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.18
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.20
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.28
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.20
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.29
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.30
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.38
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.35
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.37
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.27

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: _____ Lab Sample ID: MB 200-114860/4
Matrix: Air Lab File ID: 24297_04.d
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 13:20
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	1.4
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.68
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.52

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: _____ Lab Sample ID: LCS 200-114860/3
Matrix: Air Lab File ID: 24297_03.d
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 12:28
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	11.3		0.50	0.047
75-45-6	Freon 22	86.47	11.0		0.50	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	12.1		0.20	0.041
74-87-3	Chloromethane	50.49	10.2		0.50	0.16
106-97-8	n-Butane	58.12	10.2		0.50	0.046
75-01-4	Vinyl chloride	62.50	10.2		0.20	0.018
106-99-0	1,3-Butadiene	54.09	9.74		0.20	0.037
74-83-9	Bromomethane	94.94	10.5		0.20	0.036
75-00-3	Chloroethane	64.52	10.0		0.50	0.13
593-60-2	Bromoethene (Vinyl Bromide)	106.96	10.4		0.20	0.022
75-69-4	Trichlorofluoromethane	137.37	10.6		0.20	0.031
76-13-1	Freon TF	187.38	10.4		0.20	0.027
75-35-4	1,1-Dichloroethene	96.94	9.97		0.20	0.035
67-64-1	Acetone	58.08	10.5		5.0	1.3
67-63-0	Isopropyl alcohol	60.10	8.69		5.0	0.13
75-15-0	Carbon disulfide	76.14	12.1		0.50	0.028
107-05-1	3-Chloropropene	76.53	7.93		0.50	0.063
75-09-2	Methylene Chloride	84.93	10.1		0.50	0.068
75-65-0	tert-Butyl alcohol	74.12	9.40		5.0	1.7
1634-04-4	Methyl tert-butyl ether	88.15	10.6		0.20	0.041
156-60-5	trans-1,2-Dichloroethene	96.94	11.0		0.20	0.050
110-54-3	n-Hexane	86.17	10.6		0.20	0.046
75-34-3	1,1-Dichloroethane	98.96	10.2		0.20	0.017
78-93-3	Methyl Ethyl Ketone	72.11	10.4		0.50	0.11
156-59-2	cis-1,2-Dichloroethene	96.94	10.1		0.20	0.029
67-66-3	Chloroform	119.38	10.6		0.20	0.025
109-99-9	Tetrahydrofuran	72.11	10.0		5.0	1.2
71-55-6	1,1,1-Trichloroethane	133.41	10.4		0.20	0.026
110-82-7	Cyclohexane	84.16	9.86		0.20	0.045
56-23-5	Carbon tetrachloride	153.81	10.9		0.20	0.011
540-84-1	2,2,4-Trimethylpentane	114.23	9.45		0.20	0.043
71-43-2	Benzene	78.11	9.38		0.20	0.028
107-06-2	1,2-Dichloroethane	98.96	10.7		0.20	0.034
142-82-5	n-Heptane	100.21	9.37		0.20	0.068
79-01-6	Trichloroethene	131.39	9.73		0.20	0.0091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
 SDG No.: Agra, KS (37699)
 Client Sample ID: _____ Lab Sample ID: LCS 200-114860/3
 Matrix: Air Lab File ID: 24297_03.d
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 12:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	10.2		0.50	0.11
78-87-5	1,2-Dichloropropane	112.99	9.11		0.20	0.035
123-91-1	1,4-Dioxane	88.11	9.39		5.0	0.76
75-27-4	Bromodichloromethane	163.83	9.91		0.20	0.059
10061-01-5	cis-1,3-Dichloropropene	110.97	9.98		0.20	0.036
108-10-1	methyl isobutyl ketone	100.16	9.77		0.50	0.065
108-88-3	Toluene	92.14	10.0		0.20	0.035
10061-02-6	trans-1,3-Dichloropropene	110.97	10.3		0.20	0.038
79-00-5	1,1,2-Trichloroethane	133.41	10.2		0.20	0.017
127-18-4	Tetrachloroethene	165.83	10.7		0.20	0.0098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	10.1		0.50	0.086
124-48-1	Dibromochloromethane	208.29	9.69		0.20	0.017
106-93-4	1,2-Dibromoethane	187.87	10.4		0.20	0.023
108-90-7	Chlorobenzene	112.56	10.2		0.20	0.025
100-41-4	Ethylbenzene	106.17	10.1		0.20	0.034
179601-23-1	m,p-Xylene	106.17	20.6		0.50	0.077
95-47-6	Xylene, o-	106.17	10.2		0.20	0.040
100-42-5	Styrene	104.15	10.7		0.20	0.035
75-25-2	Bromoform	252.75	8.81		0.20	0.035
98-82-8	Cumene	120.19	10.2		0.20	0.039
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.92		0.20	0.026
103-65-1	n-Propylbenzene	120.19	10.2		0.20	0.040
622-96-8	4-Ethyltoluene	120.20	10.7		0.20	0.040
108-67-8	1,3,5-Trimethylbenzene	120.20	10.5		0.20	0.040
95-49-8	2-Chlorotoluene	126.59	10.3		0.20	0.035
98-06-6	tert-Butylbenzene	134.22	10.6		0.20	0.037
95-63-6	1,2,4-Trimethylbenzene	120.20	10.6		0.20	0.057
135-98-8	sec-Butylbenzene	134.22	10.5		0.20	0.037
99-87-6	4-Isopropyltoluene	134.22	10.8		0.20	0.052
541-73-1	1,3-Dichlorobenzene	147.00	11.1		0.20	0.050
106-46-7	1,4-Dichlorobenzene	147.00	11.2		0.20	0.063
100-44-7	Benzyl chloride	126.58	9.38		0.20	0.067
104-51-8	n-Butylbenzene	134.22	11.1		0.20	0.068
95-50-1	1,2-Dichlorobenzene	147.00	10.8		0.20	0.045

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-37699-1
SDG No.: Agra, KS (37699)
Client Sample ID: _____ Lab Sample ID: LCS 200-114860/3
Matrix: Air Lab File ID: 24297_03.d
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 03/13/2017 12:28
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 114860 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	11.0		0.50	0.19
87-68-3	Hexachlorobutadiene	260.76	10.9		0.20	0.064
91-20-3	Naphthalene	128.17	9.58		0.50	0.10

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-37699-1SDG No.: Agra, KS (37699)Instrument ID: CHW.iStart Date: 02/18/2017 12:00Analysis Batch Number: 114220End Date: 02/19/2017 07:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-114220/1		02/18/2017 12:00	1	23991_01.d	RTX-624 0.32 (mm)
VIBLK 200-114220/2		02/18/2017 13:01	1		RTX-624 0.32 (mm)
VIBLK 200-114220/3		02/18/2017 13:53	1		RTX-624 0.32 (mm)
VIBLK 200-114220/4		02/18/2017 14:45	1		RTX-624 0.32 (mm)
VIBLK 200-114220/5		02/18/2017 15:38	1		RTX-624 0.32 (mm)
IC 200-114220/6		02/18/2017 16:27	1	23991_06.d	RTX-624 0.32 (mm)
IC 200-114220/7		02/18/2017 17:20	1	23991_07.d	RTX-624 0.32 (mm)
IC 200-114220/8		02/18/2017 18:13	1	23991_08.d	RTX-624 0.32 (mm)
IC 200-114220/9		02/18/2017 19:05	1	23991_09.d	RTX-624 0.32 (mm)
ICIS 200-114220/10		02/18/2017 19:59	1	23991_10.d	RTX-624 0.32 (mm)
IC 200-114220/11		02/18/2017 20:51	1	23991_11.d	RTX-624 0.32 (mm)
IC 200-114220/12		02/18/2017 21:44	1	23991_12.d	RTX-624 0.32 (mm)
IC 200-114220/13		02/18/2017 22:37	1	23991_13.d	RTX-624 0.32 (mm)
VIBLK 200-114220/14		02/18/2017 23:29	1		RTX-624 0.32 (mm)
VIBLK 200-114220/15		02/19/2017 00:22	1		RTX-624 0.32 (mm)
ZZZZZ		02/19/2017 01:15	1		RTX-624 0.32 (mm)
VIBLK 200-114220/17		02/19/2017 02:07	1		RTX-624 0.32 (mm)
VIBLK 200-114220/18		02/19/2017 02:59	1		RTX-624 0.32 (mm)
ZZZZZ		02/19/2017 03:52	1		RTX-624 0.32 (mm)
ICV 200-114220/20		02/19/2017 04:45	1	23991_20.d	RTX-624 0.32 (mm)
ZZZZZ		02/19/2017 05:38	1		RTX-624 0.32 (mm)
VIBLK 200-114220/22		02/19/2017 06:31	1		RTX-624 0.32 (mm)
VIBLK 200-114220/23		02/19/2017 07:23	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-37699-1SDG No.: Agra, KS (37699)Instrument ID: CHW.iStart Date: 03/13/2017 10:42Analysis Batch Number: 114860End Date: 03/14/2017 09:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-114860/1		03/13/2017 10:42	1	24297_01.d	RTX-624 0.32 (mm)
CCVIS 200-114860/2		03/13/2017 11:35	1	24297_02.d	RTX-624 0.32 (mm)
LCS 200-114860/3		03/13/2017 12:28	1	24297_03.d	RTX-624 0.32 (mm)
MB 200-114860/4		03/13/2017 13:20	1	24297_04.d	RTX-624 0.32 (mm)
200-37699-1		03/13/2017 14:31	10	24297_05.d	RTX-624 0.32 (mm)
200-37699-2		03/13/2017 16:07	10	24297_07.d	RTX-624 0.32 (mm)
ZZZZZ		03/13/2017 16:57	10		RTX-624 0.32 (mm)
200-37699-4		03/13/2017 17:46	10	24297_09.d	RTX-624 0.32 (mm)
200-37699-5		03/13/2017 18:35	10	24297_10.d	RTX-624 0.32 (mm)
200-37699-6		03/13/2017 19:24	10	24297_11.d	RTX-624 0.32 (mm)
200-37699-7		03/13/2017 20:13	10	24297_12.d	RTX-624 0.32 (mm)
200-37699-8		03/13/2017 21:03	10	24297_13.d	RTX-624 0.32 (mm)
ZZZZZ		03/13/2017 21:53	2		RTX-624 0.32 (mm)
ZZZZZ		03/13/2017 22:46	1		RTX-624 0.32 (mm)
ZZZZZ		03/13/2017 23:40	1		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 00:33	1		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 01:26	1		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 02:16	2.5		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 03:10	1		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 04:03	1		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 05:13	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 06:23	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/14/2017 07:32	0.2		RTX-624 0.32 (mm)
200-37699-3		03/14/2017 09:41	10	24297_25.d	RTX-624 0.32 (mm)

Shipping and Receiving Documents

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain

TestAmerica Laboratories, Inc. assumes no liability with respect to the use of this information.

200-37699 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information		Project Manager: Lorraine LaFreniere		Samples Collected By: Travis Kamler		Carrier: FedEx		COC No: AG38171700																							
Argonne National Laboratory 9700 S Cass Ave Lemont/IL/60439 Phone: (630) 252-7969 FAX: (630) 252-5747		Phone: (630) 252-7969 Email: lafreniere@anl.gov		Date: March 8, 2017		Sample Type		1 of 1 COCs																							
Project Name: Biannual Remediation Monitoring Site/Location: Agra, KS P O #: 8A727-25-167		Site Contact: Travis Kamler (402) 416-7255 TA Contact: Kathryn Kelly		Analysis Turnaround Time		Other (Please specify in notes section)		For Lab Use Only: Walk-in Client: Lab Sampling:																							
		Standard (Specific):		Rush (Specific):		Other (Please specify in notes section)		Job / SDG No.: (See below for Add'l Items)																							
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-15 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:											
AGSG1S-G-39730	3/8/17	11:43	11:58	-27	0	6062	4848	X									X														
AGSG1D-G-39731	3/8/17	12:02	12:14	-28	0	6063	4650	X									X														
AGSG2S-G-39732	3/8/17	12:07	12:18	-26	2	6086	5859	X									X			Guage Rests at +2											
AGSG2D-G-39733	3/8/17	12:32	12:41	-30	0	6115	3597	X									X														
AGSG3S-G-39734	3/8/17	12:22	12:33	-27	1	5591	10735	X									X			Guage Rests at +1											
AGSG3D-G-39735	3/8/17	13:10	13:21	-27	1	6035	5846	X									X			Guage Rests at +1											
AGSG3DDUP-G-39736	3/8/17	13:21	13:32	-30	-1	6059	5939	X									X			Guage Rests at -1											
AGBKGD-G-39737	3/8/17	13:13	13:24	-28	1	5952	5843	X								X				Guage Rests at +1											
Special Instructions/QC Requirements & Comments:																															
<table border="1"> <tr> <th colspan="2">Temperature (Fahrenheit)</th> </tr> <tr> <td>Interior</td> <td>Ambient</td> </tr> <tr> <td>Start</td> <td>60</td> </tr> <tr> <th colspan="2">Temperature (Fahrenheit)</th> </tr> <tr> <td>Interior</td> <td>Ambient</td> </tr> <tr> <td>Stop</td> <td>62</td> </tr> </table>																				Temperature (Fahrenheit)		Interior	Ambient	Start	60	Temperature (Fahrenheit)		Interior	Ambient	Stop	62
Temperature (Fahrenheit)																															
Interior	Ambient																														
Start	60																														
Temperature (Fahrenheit)																															
Interior	Ambient																														
Stop	62																														

Samples Shipped by: Travis Kamler	Date / Time: 3/7/17 17:00	Samples Received by: <i>[Signature]</i>	Date / Time: 03/09/17 1040
Samples Relinquished by:	Date / Time:	Received by:	
Relinquished by:	Date / Time:	Received by:	

Lab Use Only	Shipper Name: <i>[Signature]</i>	Opened by: <i>[Signature]</i>	Condition: <i>[Signature]</i>
--------------	----------------------------------	-------------------------------	-------------------------------

ORIGIN ID:ENLA (402) 416-7255
TRAVIS KAMLER
ARGONNE NATIONAL LAB
9700 S CASS AVE
LEMONT, IL 60439
UNITED STATES US

SHIP DATE: 08MAR17
ACTWGT: 25.00 LB
CAD: 104734835/INET3850
DIMS: 17x12x11 IN
BILL SENDER

TO KATHRYN KELLY
TEST AMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF: 8A727-25-167
INV: PO: AGRA SOIL GAS DEPT:

546.01/ADB63C1

FedEx
Express

JT1117121401w

THU - 09 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 7786 0832 9365
0201

NA BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Argonne National Laboratory

Job Number: 200-37699-1
SDG Number: Agra, KS (37699)

Login Number: 37699

List Number: 1

Creator: Cota, Fred P

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	076975, 076976
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	TK
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Supplement 4:

**TestAmerica Data for Argonne's Quarterly Groundwater Sampling
on March 6-8, 2017**

ANALYTICAL REPORT

Job Number: 200-37664-1

SDG Number: 37664

Job Description: Agra, KS (200-37664)

Contract Number: 6E-30541

For:

Argonne National Laboratory
9700 South Cass Avenue
Building 203
Office B-141
Argonne, IL 60439

Attention: Ms. Esther Bowen

Approved for release.
James W Madison
Senior Project Manager
3/21/2017 9:57 AM

Designee for
Kathryn A Kelly, Project Manager I
30 Community Drive, South Burlington, VT, 05403
kathryn.kelly@testamericainc.com
03/21/2017

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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Definitions/Glossary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	Surrogate is outside acceptance limits.
J	Indicates an estimated value.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
D	Sample was analyzed at a higher dilution factor.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Indicates an estimated value.
N	This flag indicates the presumptive evidence of a compound.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Argonne National Laboratory

Project: Agra, KS (200-37664)

Report Number: 200-37664-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/08/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.4 C.

VOLATILE ORGANIC COMPOUNDS - TRACE

Samples AGKMW3-W-39368, AGGW2-W-39722, AGQCTB-W-39729 and VHBLK01 were analyzed for Volatile Organic Compounds - Trace in accordance with SOM02.3_Trace Volatiles. The samples were analyzed on 03/09/2017 and 03/13/2017.

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Acetone were detected in method blank MB 200-114778/4 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

2-Butanone and Acetone were detected in method blank MB 200-114852/5 at levels exceeding the reporting limit. These compounds are considered common laboratory contaminants. The associated samples were not re-analyzed because the concentration of the common lab contaminant in the method blank was less than 2 times the RL, as allowed by the reference method. 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Hexanone and 4-Methyl-2-pentanone were also detected in method blank MB 200-114852/5 at levels that were above the method detection limit but below the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Thirteen surrogates are used for this analysis. The laboratory's SOP allows 3 of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: AGGW2-W-39722 (200-37664-2) and VHBLK01 (200-37664-4). These results have been reported and qualified.

Sample AGGW2-W-39722[200X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGKMW3-W-39368

Lab Sample ID: 200-37664-1

No Detections.

Client Sample ID: AGGW2-W-39722

Lab Sample ID: 200-37664-2

Analyte	Result	Qualifier	RL	MDLE	Unit	Dil	Fac	D	Method	Prep Type
Carbon disulfide	0.19	J	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
Chloroform	20		0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
Carbon tetrachloride	260	E	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
Bromodichloromethane	0.087	J	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
Tetrachloroethene	0.15	J	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
Chloroform - DL	62	J D	100		ug/L	200			SOM02.2/VOA_ Tr	Total/NA
Carbon tetrachloride - DL	2800	D	100		ug/L	200			SOM02.2/VOA_ Tr	Total/NA

Client Sample ID: AGQCTB-W-39729

Lab Sample ID: 200-37664-3

Analyte	Result	Qualifier	RL	MDLE	Unit	Dil	Fac	D	Method	Prep Type
Toluene	0.25	J	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
o-Xylene	0.058	J	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
m,p-Xylene	0.065	J	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA
Styrene	0.050	J	0.50		ug/L	1			SOM02.2/VOA_ Tr	Total/NA

Client Sample ID: VHBLK01

Lab Sample ID: 200-37664-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGKMW3-W-39368

Lab Sample ID: 200-37664-1

Date Collected: 03/07/17 09:15

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Chloromethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Vinyl chloride	0.50	U	0.50		ug/L			03/09/17 12:47	1
Bromomethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Chloroethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Acetone	5.0	U	5.0		ug/L			03/09/17 12:47	1
Carbon disulfide	0.50	U	0.50		ug/L			03/09/17 12:47	1
Methyl acetate	0.50	U	0.50		ug/L			03/09/17 12:47	1
Methylene Chloride	0.50	U	0.50		ug/L			03/09/17 12:47	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 12:47	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 12:47	1
2-Butanone	5.0	U	5.0		ug/L			03/09/17 12:47	1
Bromochloromethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Chloroform	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Cyclohexane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Carbon tetrachloride	0.50	U	0.50		ug/L			03/09/17 12:47	1
Benzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Trichloroethene	0.50	U	0.50		ug/L			03/09/17 12:47	1
Methylcyclohexane	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Bromodichloromethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/09/17 12:47	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			03/09/17 12:47	1
Toluene	0.50	U	0.50		ug/L			03/09/17 12:47	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Tetrachloroethene	0.50	U	0.50		ug/L			03/09/17 12:47	1
2-Hexanone	5.0	U	5.0		ug/L			03/09/17 12:47	1
Dibromochloromethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
Chlorobenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
Ethylbenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
o-Xylene	0.50	U	0.50		ug/L			03/09/17 12:47	1
m,p-Xylene	0.50	U	0.50		ug/L			03/09/17 12:47	1
Styrene	0.50	U	0.50		ug/L			03/09/17 12:47	1
Bromoform	0.50	U	0.50		ug/L			03/09/17 12:47	1
Isopropylbenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			03/09/17 12:47	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGKMW3-W-39368

Lab Sample ID: 200-37664-1

Date Collected: 03/07/17 09:15

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			03/09/17 12:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	J	ug/L		1.38			03/09/17 12:47	1
Unknown	16	J	ug/L		1.43			03/09/17 12:47	1
Unknown	2.9	J	ug/L		7.28			03/09/17 12:47	1
Total Alkanes			ug/L			STL00989		03/09/17 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	106		40 - 130		03/09/17 12:47	1
Chloroethane-d5	115		65 - 130		03/09/17 12:47	1
1,1-Dichloroethene-d2	85		60 - 125		03/09/17 12:47	1
2-Butanone-d5	95		40 - 130		03/09/17 12:47	1
Chloroform-d	103		70 - 125		03/09/17 12:47	1
1,2-Dichloroethane-d4	108		70 - 130		03/09/17 12:47	1
Benzene-d6	109		70 - 125		03/09/17 12:47	1
1,2-Dichloropropane-d6	85		60 - 140		03/09/17 12:47	1
Toluene-d8	109		70 - 130		03/09/17 12:47	1
trans-1,3-Dichloropropene-d4	97		55 - 130		03/09/17 12:47	1
2-Hexanone-d5	104		45 - 130		03/09/17 12:47	1
1,1,2,2-Tetrachloroethane-d2	94		65 - 120		03/09/17 12:47	1
1,2-Dichlorobenzene-d4	121	*	80 - 120		03/09/17 12:47	1

Client Sample ID: AGGW2-W-39722

Lab Sample ID: 200-37664-2

Date Collected: 03/06/17 18:20

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Chloromethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Vinyl chloride	0.50	U	0.50		ug/L			03/09/17 13:39	1
Bromomethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Chloroethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Acetone	5.0	U	5.0		ug/L			03/09/17 13:39	1
Carbon disulfide	0.19	J	0.50		ug/L			03/09/17 13:39	1
Methyl acetate	0.50	U	0.50		ug/L			03/09/17 13:39	1
Methylene Chloride	0.50	U	0.50		ug/L			03/09/17 13:39	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 13:39	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 13:39	1
2-Butanone	5.0	U	5.0		ug/L			03/09/17 13:39	1
Bromochloromethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Chloroform	20		0.50		ug/L			03/09/17 13:39	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			03/09/17 13:39	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGGW2-W-39722

Lab Sample ID: 200-37664-2

Date Collected: 03/06/17 18:20

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Carbon tetrachloride	260	E	0.50		ug/L			03/09/17 13:39	1
Benzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Trichloroethene	0.50	U	0.50		ug/L			03/09/17 13:39	1
Methylcyclohexane	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Bromodichloromethane	0.087	J	0.50		ug/L			03/09/17 13:39	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/09/17 13:39	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			03/09/17 13:39	1
Toluene	0.50	U	0.50		ug/L			03/09/17 13:39	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Tetrachloroethene	0.15	J	0.50		ug/L			03/09/17 13:39	1
2-Hexanone	5.0	U	5.0		ug/L			03/09/17 13:39	1
Dibromochloromethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
Chlorobenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
Ethylbenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
o-Xylene	0.50	U	0.50		ug/L			03/09/17 13:39	1
m,p-Xylene	0.50	U	0.50		ug/L			03/09/17 13:39	1
Styrene	0.50	U	0.50		ug/L			03/09/17 13:39	1
Bromoform	0.50	U	0.50		ug/L			03/09/17 13:39	1
Isopropylbenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			03/09/17 13:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8.0	J	ug/L		1.38			03/09/17 13:39	1
Unknown	12	J	ug/L		1.43			03/09/17 13:39	1
Unknown	2.6	J	ug/L		7.28			03/09/17 13:39	1
Unknown alkane	2.4	J	ug/L		7.43			03/09/17 13:39	1
Unknown alkane	0.65	J	ug/L		12.84			03/09/17 13:39	1
Total Alkanes	3.1	J	ug/L			STL00989		03/09/17 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	98		40 - 130		03/09/17 13:39	1
Chloroethane-d5	110		65 - 130		03/09/17 13:39	1
1,1-Dichloroethene-d2	81		60 - 125		03/09/17 13:39	1
2-Butanone-d5	83		40 - 130		03/09/17 13:39	1
Chloroform-d	112		70 - 125		03/09/17 13:39	1
1,2-Dichloroethane-d4	104		70 - 130		03/09/17 13:39	1
Benzene-d6	148	*	70 - 125		03/09/17 13:39	1
1,2-Dichloropropane-d6	85		60 - 140		03/09/17 13:39	1
Toluene-d8	111		70 - 130		03/09/17 13:39	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGGW2-W-39722

Lab Sample ID: 200-37664-2

Date Collected: 03/06/17 18:20

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene-d4	95		55 - 130		03/09/17 13:39	1
2-Hexanone-d5	103		45 - 130		03/09/17 13:39	1
1,1,2,2-Tetrachloroethane-d2	96		65 - 120		03/09/17 13:39	1
1,2-Dichlorobenzene-d4	125	*	80 - 120		03/09/17 13:39	1

Method: SOM02.2/VOA_Tr - Trace Water - DL

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	100	U	100		ug/L			03/13/17 14:06	200
Chloromethane	100	U	100		ug/L			03/13/17 14:06	200
Vinyl chloride	100	U	100		ug/L			03/13/17 14:06	200
Bromomethane	100	U	100		ug/L			03/13/17 14:06	200
Chloroethane	100	U	100		ug/L			03/13/17 14:06	200
Trichlorofluoromethane	100	U	100		ug/L			03/13/17 14:06	200
1,1-Dichloroethene	100	U	100		ug/L			03/13/17 14:06	200
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100		ug/L			03/13/17 14:06	200
Acetone	1000	U	1000		ug/L			03/13/17 14:06	200
Carbon disulfide	100	U	100		ug/L			03/13/17 14:06	200
Methyl acetate	100	U	100		ug/L			03/13/17 14:06	200
Methylene Chloride	100	U	100		ug/L			03/13/17 14:06	200
trans-1,2-Dichloroethene	100	U	100		ug/L			03/13/17 14:06	200
Methyl tert-butyl ether	100	U	100		ug/L			03/13/17 14:06	200
1,1-Dichloroethane	100	U	100		ug/L			03/13/17 14:06	200
cis-1,2-Dichloroethene	100	U	100		ug/L			03/13/17 14:06	200
2-Butanone	1000	U	1000		ug/L			03/13/17 14:06	200
Bromochloromethane	100	U	100		ug/L			03/13/17 14:06	200
Chloroform	62	J D	100		ug/L			03/13/17 14:06	200
1,1,1-Trichloroethane	100	U	100		ug/L			03/13/17 14:06	200
Cyclohexane	100	U	100		ug/L			03/13/17 14:06	200
Carbon tetrachloride	2800	D	100		ug/L			03/13/17 14:06	200
Benzene	100	U	100		ug/L			03/13/17 14:06	200
1,2-Dichloroethane	100	U	100		ug/L			03/13/17 14:06	200
Trichloroethene	100	U	100		ug/L			03/13/17 14:06	200
Methylcyclohexane	100	U	100		ug/L			03/13/17 14:06	200
1,2-Dichloropropane	100	U	100		ug/L			03/13/17 14:06	200
Bromodichloromethane	100	U	100		ug/L			03/13/17 14:06	200
cis-1,3-Dichloropropene	100	U	100		ug/L			03/13/17 14:06	200
4-Methyl-2-pentanone	1000	U	1000		ug/L			03/13/17 14:06	200
Toluene	100	U	100		ug/L			03/13/17 14:06	200
trans-1,3-Dichloropropene	100	U	100		ug/L			03/13/17 14:06	200
1,1,2-Trichloroethane	100	U	100		ug/L			03/13/17 14:06	200
Tetrachloroethene	100	U	100		ug/L			03/13/17 14:06	200
2-Hexanone	1000	U	1000		ug/L			03/13/17 14:06	200
Dibromochloromethane	100	U	100		ug/L			03/13/17 14:06	200
1,2-Dibromoethane	100	U	100		ug/L			03/13/17 14:06	200
Chlorobenzene	100	U	100		ug/L			03/13/17 14:06	200
Ethylbenzene	100	U	100		ug/L			03/13/17 14:06	200
o-Xylene	100	U	100		ug/L			03/13/17 14:06	200
m,p-Xylene	100	U	100		ug/L			03/13/17 14:06	200
Styrene	100	U	100		ug/L			03/13/17 14:06	200

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGGW2-W-39722

Lab Sample ID: 200-37664-2

Date Collected: 03/06/17 18:20

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water - DL (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	100	U	100		ug/L			03/13/17 14:06	200
Isopropylbenzene	100	U	100		ug/L			03/13/17 14:06	200
1,1,2,2-Tetrachloroethane	100	U	100		ug/L			03/13/17 14:06	200
1,3-Dichlorobenzene	100	U	100		ug/L			03/13/17 14:06	200
1,4-Dichlorobenzene	100	U	100		ug/L			03/13/17 14:06	200
1,2-Dichlorobenzene	100	U	100		ug/L			03/13/17 14:06	200
1,2-Dibromo-3-chloropropane	100	U	100		ug/L			03/13/17 14:06	200
1,2,4-Trichlorobenzene	100	U	100		ug/L			03/13/17 14:06	200
1,2,3-Trichlorobenzene	100	U	100		ug/L			03/13/17 14:06	200

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown alkane	520	J	ug/L		7.29			03/13/17 14:06	200
Total Alkanes	520	J	ug/L			STL00989		03/13/17 14:06	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	107		40 - 130		03/13/17 14:06	200
Chloroethane-d5	119		65 - 130		03/13/17 14:06	200
1,1-Dichloroethene-d2	83		60 - 125		03/13/17 14:06	200
2-Butanone-d5	66		40 - 130		03/13/17 14:06	200
Chloroform-d	99		70 - 125		03/13/17 14:06	200
1,2-Dichloroethane-d4	103		70 - 130		03/13/17 14:06	200
Benzene-d6	109		70 - 125		03/13/17 14:06	200
1,2-Dichloropropane-d6	85		60 - 140		03/13/17 14:06	200
Toluene-d8	111		70 - 130		03/13/17 14:06	200
trans-1,3-Dichloropropene-d4	90		55 - 130		03/13/17 14:06	200
2-Hexanone-d5	78		45 - 130		03/13/17 14:06	200
1,1,2,2-Tetrachloroethane-d2	87		65 - 120		03/13/17 14:06	200
1,2-Dichlorobenzene-d4	127	* D	80 - 120		03/13/17 14:06	200

Client Sample ID: AGQCTB-W-39729

Lab Sample ID: 200-37664-3

Date Collected: 03/07/17 16:00

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Chloromethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Vinyl chloride	0.50	U	0.50		ug/L			03/13/17 14:58	1
Bromomethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Chloroethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Acetone	5.0	U	5.0		ug/L			03/13/17 14:58	1
Carbon disulfide	0.50	U	0.50		ug/L			03/13/17 14:58	1
Methyl acetate	0.50	U	0.50		ug/L			03/13/17 14:58	1
Methylene Chloride	0.50	U	0.50		ug/L			03/13/17 14:58	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 14:58	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			03/13/17 14:58	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGQCTB-W-39729

Lab Sample ID: 200-37664-3

Date Collected: 03/07/17 16:00

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 14:58	1
2-Butanone	5.0	U	5.0		ug/L			03/13/17 14:58	1
Bromochloromethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Chloroform	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Cyclohexane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Carbon tetrachloride	0.50	U	0.50		ug/L			03/13/17 14:58	1
Benzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Trichloroethene	0.50	U	0.50		ug/L			03/13/17 14:58	1
Methylcyclohexane	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Bromodichloromethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/13/17 14:58	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			03/13/17 14:58	1
Toluene	0.25	J	0.50		ug/L			03/13/17 14:58	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Tetrachloroethene	0.50	U	0.50		ug/L			03/13/17 14:58	1
2-Hexanone	5.0	U	5.0		ug/L			03/13/17 14:58	1
Dibromochloromethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
Chlorobenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
Ethylbenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
o-Xylene	0.058	J	0.50		ug/L			03/13/17 14:58	1
m,p-Xylene	0.065	J	0.50		ug/L			03/13/17 14:58	1
Styrene	0.050	J	0.50		ug/L			03/13/17 14:58	1
Bromoform	0.50	U	0.50		ug/L			03/13/17 14:58	1
Isopropylbenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			03/13/17 14:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown alkane	2.5	J	ug/L		7.29			03/13/17 14:58	1
D-Limonene	2.0	J N	ug/L		12.04	5989-27-5		03/13/17 14:58	1
Total Alkanes	2.5	J	ug/L			STL00989		03/13/17 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	107		40 - 130		03/13/17 14:58	1
Chloroethane-d5	121		65 - 130		03/13/17 14:58	1
1,1-Dichloroethene-d2	79		60 - 125		03/13/17 14:58	1
2-Butanone-d5	63		40 - 130		03/13/17 14:58	1
Chloroform-d	98		70 - 125		03/13/17 14:58	1
1,2-Dichloroethane-d4	102		70 - 130		03/13/17 14:58	1
Benzene-d6	108		70 - 125		03/13/17 14:58	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGQCTB-W-39729

Lab Sample ID: 200-37664-3

Date Collected: 03/07/17 16:00

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane-d6	84		60 - 140		03/13/17 14:58	1
Toluene-d8	110		70 - 130		03/13/17 14:58	1
trans-1,3-Dichloropropene-d4	87		55 - 130		03/13/17 14:58	1
2-Hexanone-d5	74		45 - 130		03/13/17 14:58	1
1,1,2,2-Tetrachloroethane-d2	86		65 - 120		03/13/17 14:58	1
1,2-Dichlorobenzene-d4	87		80 - 120		03/13/17 14:58	1

Client Sample ID: VHBLK01

Lab Sample ID: 200-37664-4

Date Collected: 03/08/17 11:15

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Chloromethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Vinyl chloride	0.50	U	0.50		ug/L			03/13/17 15:24	1
Bromomethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Chloroethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Acetone	5.0	U	5.0		ug/L			03/13/17 15:24	1
Carbon disulfide	0.50	U	0.50		ug/L			03/13/17 15:24	1
Methyl acetate	0.50	U	0.50		ug/L			03/13/17 15:24	1
Methylene Chloride	0.50	U	0.50		ug/L			03/13/17 15:24	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 15:24	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 15:24	1
2-Butanone	5.0	U	5.0		ug/L			03/13/17 15:24	1
Bromochloromethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Chloroform	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Cyclohexane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Carbon tetrachloride	0.50	U	0.50		ug/L			03/13/17 15:24	1
Benzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Trichloroethene	0.50	U	0.50		ug/L			03/13/17 15:24	1
Methylcyclohexane	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Bromodichloromethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/13/17 15:24	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			03/13/17 15:24	1
Toluene	0.50	U	0.50		ug/L			03/13/17 15:24	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Tetrachloroethene	0.50	U	0.50		ug/L			03/13/17 15:24	1
2-Hexanone	5.0	U	5.0		ug/L			03/13/17 15:24	1
Dibromochloromethane	0.50	U	0.50		ug/L			03/13/17 15:24	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: VHBLK01

Lab Sample ID: 200-37664-4

Date Collected: 03/08/17 11:15

Matrix: Water

Date Received: 03/08/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
Chlorobenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
Ethylbenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
o-Xylene	0.50	U	0.50		ug/L			03/13/17 15:24	1
m,p-Xylene	0.50	U	0.50		ug/L			03/13/17 15:24	1
Styrene	0.50	U	0.50		ug/L			03/13/17 15:24	1
Bromoform	0.50	U	0.50		ug/L			03/13/17 15:24	1
Isopropylbenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			03/13/17 15:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown alkane	2.5	J	ug/L		7.28			03/13/17 15:24	1
Total Alkanes	2.5	J	ug/L			STL00989		03/13/17 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	104		40 - 130		03/13/17 15:24	1
Chloroethane-d5	118		65 - 130		03/13/17 15:24	1
1,1-Dichloroethene-d2	85		60 - 125		03/13/17 15:24	1
2-Butanone-d5	77		40 - 130		03/13/17 15:24	1
Chloroform-d	94		70 - 125		03/13/17 15:24	1
1,2-Dichloroethane-d4	101		70 - 130		03/13/17 15:24	1
Benzene-d6	113		70 - 125		03/13/17 15:24	1
1,2-Dichloropropane-d6	85		60 - 140		03/13/17 15:24	1
Toluene-d8	112		70 - 130		03/13/17 15:24	1
trans-1,3-Dichloropropene-d4	90		55 - 130		03/13/17 15:24	1
2-Hexanone-d5	83		45 - 130		03/13/17 15:24	1
1,1,2,2-Tetrachloroethane-d2	85		65 - 120		03/13/17 15:24	1
1,2-Dichlorobenzene-d4	123	*	80 - 120		03/13/17 15:24	1

Default Detection Limits

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	RL	MDLE	Units	Method
1,1,1-Trichloroethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
1,1,2,2-Tetrachloroethane	0.50	0.079	ug/L	SOM02.2/VOA_Tr
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.12	ug/L	SOM02.2/VOA_Tr
1,1,2-Trichloroethane	0.50	0.085	ug/L	SOM02.2/VOA_Tr
1,1-Dichloroethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
1,1-Dichloroethene	0.50	0.090	ug/L	SOM02.2/VOA_Tr
1,2,3-Trichlorobenzene	0.50	0.059	ug/L	SOM02.2/VOA_Tr
1,2,4-Trichlorobenzene	0.50	0.068	ug/L	SOM02.2/VOA_Tr
1,2-Dibromo-3-chloropropane	0.50	0.13	ug/L	SOM02.2/VOA_Tr
1,2-Dibromoethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
1,2-Dichlorobenzene	0.50	0.075	ug/L	SOM02.2/VOA_Tr
1,2-Dichloroethane	0.50	0.092	ug/L	SOM02.2/VOA_Tr
1,2-Dichloropropane	0.50	0.19	ug/L	SOM02.2/VOA_Tr
1,3-Dichlorobenzene	0.50	0.069	ug/L	SOM02.2/VOA_Tr
1,4-Dichlorobenzene	0.50	0.078	ug/L	SOM02.2/VOA_Tr
2-Butanone	5.0	1.0	ug/L	SOM02.2/VOA_Tr
2-Hexanone	5.0	0.64	ug/L	SOM02.2/VOA_Tr
4-Methyl-2-pentanone	5.0	0.98	ug/L	SOM02.2/VOA_Tr
Acetone	5.0	1.3	ug/L	SOM02.2/VOA_Tr
Benzene	0.50	0.17	ug/L	SOM02.2/VOA_Tr
Bromochloromethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
Bromodichloromethane	0.50	0.072	ug/L	SOM02.2/VOA_Tr
Bromoform	0.50	0.091	ug/L	SOM02.2/VOA_Tr
Bromomethane	0.50	0.097	ug/L	SOM02.2/VOA_Tr
Carbon disulfide	0.50	0.091	ug/L	SOM02.2/VOA_Tr
Carbon tetrachloride	0.50	0.088	ug/L	SOM02.2/VOA_Tr
Chlorobenzene	0.50	0.085	ug/L	SOM02.2/VOA_Tr
Chloroethane	0.50	0.17	ug/L	SOM02.2/VOA_Tr
Chloroform	0.50	0.10	ug/L	SOM02.2/VOA_Tr
Chloromethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
cis-1,2-Dichloroethene	0.50	0.094	ug/L	SOM02.2/VOA_Tr
cis-1,3-Dichloropropene	0.50	0.12	ug/L	SOM02.2/VOA_Tr
Cyclohexane	0.50	0.11	ug/L	SOM02.2/VOA_Tr
Dibromochloromethane	0.50	0.079	ug/L	SOM02.2/VOA_Tr
Dichlorodifluoromethane	0.50	0.096	ug/L	SOM02.2/VOA_Tr
Ethylbenzene	0.50	0.058	ug/L	SOM02.2/VOA_Tr
Isopropylbenzene	0.50	0.040	ug/L	SOM02.2/VOA_Tr
m,p-Xylene	0.50	0.058	ug/L	SOM02.2/VOA_Tr
Methyl acetate	0.50	0.12	ug/L	SOM02.2/VOA_Tr
Methyl tert-butyl ether	0.50	0.080	ug/L	SOM02.2/VOA_Tr
Methylcyclohexane	0.50	0.19	ug/L	SOM02.2/VOA_Tr
Methylene Chloride	0.50	0.098	ug/L	SOM02.2/VOA_Tr
o-Xylene	0.50	0.040	ug/L	SOM02.2/VOA_Tr
Styrene	0.50	0.041	ug/L	SOM02.2/VOA_Tr
Tetrachloroethene	0.50	0.070	ug/L	SOM02.2/VOA_Tr
Toluene	0.50	0.14	ug/L	SOM02.2/VOA_Tr
trans-1,2-Dichloroethene	0.50	0.11	ug/L	SOM02.2/VOA_Tr
trans-1,3-Dichloropropene	0.50	0.034	ug/L	SOM02.2/VOA_Tr
Trichloroethene	0.50	0.18	ug/L	SOM02.2/VOA_Tr
Trichlorofluoromethane	0.50	0.12	ug/L	SOM02.2/VOA_Tr
Vinyl chloride	0.50	0.097	ug/L	SOM02.2/VOA_Tr

TestAmerica Burlington

Surrogate Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Method: SOM02.2/VOA_Tr - Trace Water

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	μ l chloride (40-130)	chloroethane (65-130)	1,1-dichloroethane (60-125)	2-butanone (40-130)	chloroform (70-125)	1,2-DCE (70-130)	benzene-d (70-125)	1,2-dichloropropane (60-140)
200-37664-1	AGKMW3-W-39368	106	115	85	95	103	108	109	85
200-37664-2	AGGW2-W-39722	98	110	81	83	112	104	148 *	85
200-37664-2 - DL	AGGW2-W-39722	107	119	83	66	99	103	109	85
200-37664-3	AGQCTB-W-39729	107	121	79	63	98	102	108	84
200-37664-4	VHBLK01	104	118	85	77	94	101	113	85
MB 200-114778/4	Method Blank	105	113	80	88	99	101	106	82
MB 200-114852/5	Method Blank	106	110	84	79	96	99	107	81

		Percent Surrogate Recovery (Acceptance Limits)				
Lab Sample ID	Client Sample ID	TOL (70-130)	1,2-dichloropropane (55-130)	2-hexanone (45-130)	trans-1,3-dichloropropene (65-120)	1,2-DCB (80-120)
200-37664-1	AGKMW3-W-39368	109	97	104	94	121 *
200-37664-2	AGGW2-W-39722	111	95	103	96	125 *
200-37664-2 - DL	AGGW2-W-39722	111	90	78	87	127 * D
200-37664-3	AGQCTB-W-39729	110	87	74	86	87
200-37664-4	VHBLK01	112	90	83	85	123 *
MB 200-114778/4	Method Blank	105	94	95	89	115
MB 200-114852/5	Method Blank	107	93	85	85	118

Surrogate Legend

Vinyl chloride-d3 = Vinyl chloride-d3
Chloroethane-d5 = Chloroethane-d5
1,1-Dichloroethene-d2 = 1,1-Dichloroethene-d2
2-Butanone-d5 = 2-Butanone-d5
Chloroform-d = Chloroform-d
1,2-DCE = 1,2-Dichloroethane-d4
Benzene-d6 = Benzene-d6
1,2-Dichloropropane-d6 = 1,2-Dichloropropane-d6
TOL = Toluene-d8
trans-1,3-Dichloropropene-d4 = trans-1,3-Dichloropropene-d4
2-Hexanone-d5 = 2-Hexanone-d5
1,1,2,2-Tetrachloroethane-d2 = 1,1,2,2-Tetrachloroethane-d2
1,2-DCB = 1,2-Dichlorobenzene-d4

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Method: SOM02.2/VOA_Tr - Trace Water

Lab Sample ID: MB 200-114778/4

Matrix: Water

Analysis Batch: 114778

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Chloromethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Vinyl chloride	0.50	U	0.50		ug/L			03/09/17 11:43	1
Bromomethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Chloroethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Acetone	2.3	J	5.0		ug/L			03/09/17 11:43	1
Carbon disulfide	0.50	U	0.50		ug/L			03/09/17 11:43	1
Methyl acetate	0.50	U	0.50		ug/L			03/09/17 11:43	1
Methylene Chloride	0.50	U	0.50		ug/L			03/09/17 11:43	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 11:43	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/09/17 11:43	1
2-Butanone	5.0	U	5.0		ug/L			03/09/17 11:43	1
Bromochloromethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Chloroform	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Cyclohexane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Carbon tetrachloride	0.50	U	0.50		ug/L			03/09/17 11:43	1
Benzene	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Trichloroethene	0.50	U	0.50		ug/L			03/09/17 11:43	1
Methylcyclohexane	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Bromodichloromethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/09/17 11:43	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			03/09/17 11:43	1
Toluene	0.50	U	0.50		ug/L			03/09/17 11:43	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Tetrachloroethene	0.50	U	0.50		ug/L			03/09/17 11:43	1
2-Hexanone	5.0	U	5.0		ug/L			03/09/17 11:43	1
Dibromochloromethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
Chlorobenzene	0.50	U	0.50		ug/L			03/09/17 11:43	1
Ethylbenzene	0.50	U	0.50		ug/L			03/09/17 11:43	1
o-Xylene	0.50	U	0.50		ug/L			03/09/17 11:43	1
m,p-Xylene	0.50	U	0.50		ug/L			03/09/17 11:43	1
Styrene	0.50	U	0.50		ug/L			03/09/17 11:43	1
Bromoform	0.50	U	0.50		ug/L			03/09/17 11:43	1
Isopropylbenzene	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			03/09/17 11:43	1

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Lab Sample ID: MB 200-114778/4

Matrix: Water

Analysis Batch: 114778

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			03/09/17 11:43	1
1,2,4-Trichlorobenzene	0.17	J	0.50		ug/L			03/09/17 11:43	1
1,2,3-Trichlorobenzene	0.36	J	0.50		ug/L			03/09/17 11:43	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					03/09/17 11:43	1
Total Alkanes			ug/L			STL00989		03/09/17 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	105		40 - 130		03/09/17 11:43	1
Chloroethane-d5	113		65 - 130		03/09/17 11:43	1
1,1-Dichloroethene-d2	80		60 - 125		03/09/17 11:43	1
2-Butanone-d5	88		40 - 130		03/09/17 11:43	1
Chloroform-d	99		70 - 125		03/09/17 11:43	1
1,2-Dichloroethane-d4	101		70 - 130		03/09/17 11:43	1
Benzene-d6	106		70 - 125		03/09/17 11:43	1
1,2-Dichloropropane-d6	82		60 - 140		03/09/17 11:43	1
Toluene-d8	105		70 - 130		03/09/17 11:43	1
trans-1,3-Dichloropropene-d4	94		55 - 130		03/09/17 11:43	1
2-Hexanone-d5	95		45 - 130		03/09/17 11:43	1
1,1,2,2-Tetrachloroethane-d2	89		65 - 120		03/09/17 11:43	1
1,2-Dichlorobenzene-d4	115		80 - 120		03/09/17 11:43	1

Lab Sample ID: MB 200-114852/5

Matrix: Water

Analysis Batch: 114852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Chloromethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Vinyl chloride	0.50	U	0.50		ug/L			03/13/17 11:35	1
Bromomethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Chloroethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Acetone	8.5		5.0		ug/L			03/13/17 11:35	1
Carbon disulfide	0.50	U	0.50		ug/L			03/13/17 11:35	1
Methyl acetate	0.50	U	0.50		ug/L			03/13/17 11:35	1
Methylene Chloride	0.50	U	0.50		ug/L			03/13/17 11:35	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 11:35	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			03/13/17 11:35	1
2-Butanone	5.0		5.0		ug/L			03/13/17 11:35	1
Bromochloromethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Chloroform	0.50	U	0.50		ug/L			03/13/17 11:35	1

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Lab Sample ID: MB 200-114852/5

Matrix: Water

Analysis Batch: 114852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Cyclohexane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Carbon tetrachloride	0.50	U	0.50		ug/L			03/13/17 11:35	1
Benzene	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Trichloroethene	0.50	U	0.50		ug/L			03/13/17 11:35	1
Methylcyclohexane	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Bromodichloromethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/13/17 11:35	1
4-Methyl-2-pentanone	1.0	J	5.0		ug/L			03/13/17 11:35	1
Toluene	0.50	U	0.50		ug/L			03/13/17 11:35	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Tetrachloroethene	0.50	U	0.50		ug/L			03/13/17 11:35	1
2-Hexanone	2.8	J	5.0		ug/L			03/13/17 11:35	1
Dibromochloromethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
Chlorobenzene	0.50	U	0.50		ug/L			03/13/17 11:35	1
Ethylbenzene	0.50	U	0.50		ug/L			03/13/17 11:35	1
o-Xylene	0.50	U	0.50		ug/L			03/13/17 11:35	1
m,p-Xylene	0.50	U	0.50		ug/L			03/13/17 11:35	1
Styrene	0.50	U	0.50		ug/L			03/13/17 11:35	1
Bromoform	0.50	U	0.50		ug/L			03/13/17 11:35	1
Isopropylbenzene	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			03/13/17 11:35	1
1,2,4-Trichlorobenzene	0.20	J	0.50		ug/L			03/13/17 11:35	1
1,2,3-Trichlorobenzene	0.36	J	0.50		ug/L			03/13/17 11:35	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					03/13/17 11:35	1
Total Alkanes			ug/L			STL00989		03/13/17 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	106		40 - 130		03/13/17 11:35	1
Chloroethane-d5	110		65 - 130		03/13/17 11:35	1
1,1-Dichloroethene-d2	84		60 - 125		03/13/17 11:35	1
2-Butanone-d5	79		40 - 130		03/13/17 11:35	1
Chloroform-d	96		70 - 125		03/13/17 11:35	1
1,2-Dichloroethane-d4	99		70 - 130		03/13/17 11:35	1
Benzene-d6	107		70 - 125		03/13/17 11:35	1
1,2-Dichloropropane-d6	81		60 - 140		03/13/17 11:35	1
Toluene-d8	107		70 - 130		03/13/17 11:35	1

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Lab Sample ID: MB 200-114852/5

Matrix: Water

Analysis Batch: 114852

Client Sample ID: Method Blank

Prep Type: Total/NA

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>trans-1,3-Dichloropropene-d4</i>	93		55 - 130		03/13/17 11:35	1
<i>2-Hexanone-d5</i>	85		45 - 130		03/13/17 11:35	1
<i>1,1,2,2-Tetrachloroethane-d2</i>	85		65 - 120		03/13/17 11:35	1
<i>1,2-Dichlorobenzene-d4</i>	118		80 - 120		03/13/17 11:35	1

QC Association Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

GC/MS VOA

Analysis Batch: 114778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-37664-1	AGKMW3-W-39368	Total/NA	Water	SOM02.2/VOA_ Tr	
200-37664-2	AGGW2-W-39722	Total/NA	Water	SOM02.2/VOA_ Tr	
MB 200-114778/4	Method Blank	Total/NA	Water	SOM02.2/VOA_ Tr	

Analysis Batch: 114852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-37664-2 - DL	AGGW2-W-39722	Total/NA	Water	SOM02.2/VOA_ Tr	
200-37664-3	AGQCTB-W-39729	Total/NA	Water	SOM02.2/VOA_ Tr	
200-37664-4	VHBLK01	Total/NA	Water	SOM02.2/VOA_ Tr	
MB 200-114852/5	Method Blank	Total/NA	Water	SOM02.2/VOA_ Tr	

Lab Chronicle

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Client Sample ID: AGKMW3-W-39368

Date Collected: 03/07/17 09:15

Date Received: 03/08/17 10:15

Lab Sample ID: 200-37664-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	114778	03/09/17 12:47	BLW	TAL BUR

Client Sample ID: AGGW2-W-39722

Date Collected: 03/06/17 18:20

Date Received: 03/08/17 10:15

Lab Sample ID: 200-37664-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	114778	03/09/17 13:39	BLW	TAL BUR
Total/NA	Analysis	SOM02.2/VOA_Tr	DL	200	114852	03/13/17 14:06	SEA	TAL BUR

Client Sample ID: AGQCTB-W-39729

Date Collected: 03/07/17 16:00

Date Received: 03/08/17 10:15

Lab Sample ID: 200-37664-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	114852	03/13/17 14:58	SEA	TAL BUR

Client Sample ID: VHBLK01

Date Collected: 03/08/17 11:15

Date Received: 03/08/17 10:15

Lab Sample ID: 200-37664-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	114852	03/13/17 15:24	SEA	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	03-25-17 *
Maine	State Program	1	VT00008	04-17-17 *
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-17
New York	NELAP	2	10391	04-01-17 *
Pennsylvania	NELAP	3	68-00489	04-30-17 *
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	10-31-17
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

* Certification renewal pending - certification considered valid.

TestAmerica Burlington

Method Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Method	Method Description	Protocol	Laboratory
SOM02.2/VOA_Tr	Trace Water	SOM02.2	TAL BUR

Protocol References:
SOM02.2 = SOM02.2

Laboratory References:
TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-37664)

TestAmerica Job ID: 200-37664-1
SDG: 37664

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-37664-1	AGKMW3-W-39368	Water	03/07/17 09:15	03/08/17 10:15
200-37664-2	AGGW2-W-39722	Water	03/06/17 18:20	03/08/17 10:15
200-37664-3	AGQCTB-W-39729	Water	03/07/17 16:00	03/08/17 10:15
200-37664-4	VHBLK01	Water	03/08/17 11:15	03/08/17 10:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37664-1SDG No.: 37664Instrument ID: CHD.i Analysis Batch Number: 114709Lab Sample ID: IC 200-114709/6 Client Sample ID: _____Date Analyzed: 03/08/17 10:54 Lab File ID: 24228_06.D GC Column: DB-624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	9.47	Baseline	welchb	03/08/17 14:20
m,p-Xylene	9.62	Baseline	welchb	03/08/17 14:20

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37664-1SDG No.: 37664Instrument ID: CHD.i Analysis Batch Number: 114778Lab Sample ID: 200-37664-2 Client Sample ID: AGGW2-W-39722Date Analyzed: 03/09/17 13:39 Lab File ID: 24259_07.D GC Column: DB-624 ID: 0.2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	5.27	Baseline	welchb	03/10/17 10:41

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37664-1

SDG No.: 37664

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMSOMTRCALw_00119	03/28/17	03/02/17	METHANOL, Lot 157266	4000 uL	VM8260CALbs_00213	42 uL	Bromomethane	21 ug/mL
							Chloroethane	21 ug/mL
							Chloromethane	21 ug/mL
							Dichlorodifluoromethane	21 ug/mL
							Trichlorofluoromethane	21 ug/mL
							Vinyl chloride	21 ug/mL
					VMSOMCALas_00035	42 uL	1,1,1-Trichloroethane	21 ug/mL
							1,1,2,2-Tetrachloroethane	21 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	21 ug/mL
							1,1,2-Trichloroethane	21 ug/mL
							1,1-Dichloroethane	21 ug/mL
							1,1-Dichloroethene	21 ug/mL
							1,2,3-Trichlorobenzene	21 ug/mL
							1,2,4-Trichlorobenzene	21 ug/mL
							1,2-Dibromo-3-chloropropane	21 ug/mL
							1,2-Dibromoethane	21 ug/mL
							1,2-Dichlorobenzene	21 ug/mL
							1,2-Dichloroethane	21 ug/mL
							1,2-Dichloropropane	21 ug/mL
							1,3-Dichlorobenzene	21 ug/mL
							1,4-Dichlorobenzene	21 ug/mL
							Benzene	21 ug/mL
							Bromochloromethane	21 ug/mL
							Bromodichloromethane	21 ug/mL
							Bromoform	21 ug/mL
							Carbon disulfide	21 ug/mL
							Carbon tetrachloride	21 ug/mL
							Chlorobenzene	21 ug/mL
							Chloroform	21 ug/mL
							cis-1,2-Dichloroethene	21 ug/mL
							cis-1,3-Dichloropropene	21 ug/mL
							Cyclohexane	21 ug/mL
							Dibromochloromethane	21 ug/mL
							Ethylbenzene	21 ug/mL
							Isopropylbenzene	21 ug/mL
							m,p-Xylene	21 ug/mL
							Methyl acetate	21 ug/mL
							Methyl tert-butyl ether	21 ug/mL
							Methylcyclohexane	21 ug/mL
							Methylene Chloride	21 ug/mL
							o-Xylene	21 ug/mL
							Styrene	21 ug/mL
							Tetrachloroethene	21 ug/mL
							Toluene	21 ug/mL
							trans-1,2-Dichloroethene	21 ug/mL
							trans-1,3-Dichloropropene	21 ug/mL
							Trichloroethene	21 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-37664-1

SDG No.: 37664

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VMSOMCALbs_00043	168 uL	2-Butanone	210 ug/mL
							2-Hexanone	210 ug/mL
							4-Methyl-2-pentanone	210 ug/mL
							Acetone	210 ug/mL
					VMSOMSUs_00092	42 uL	Chloroethane-d5	21 ug/mL
							Vinyl chloride-d3	21 ug/mL
					VMSOMSUs_00176	336 uL	2-Butanone-d5	210 ug/mL
							2-Hexanone-d5	210 ug/mL
					VMSOMSUs_00065	42 uL	1,1,2,2-Tetrachloroethane-d2	21 ug/mL
							1,1-Dichloroethene-d2	21 ug/mL
							1,2-Dichlorobenzene-d4	21 ug/mL
							1,2-Dichloroethane-d4	21 ug/mL
							1,2-Dichloropropane-d6	21 ug/mL
							Benzene-d6	21 ug/mL
							Chloroform-d	21 ug/mL
							Toluene-d8	21 ug/mL
							trans-1,3-Dichloropropene-d4	21 ug/mL
.VM8260CALbs_00213	03/28/17	RESTEK, Lot A0120832		(Purchased Reagent)	Bromomethane	2000 ug/mL		
					Chloroethane	2000 ug/mL		
					Chloromethane	2000 ug/mL		
					Dichlorodifluoromethane	2000 ug/mL		
					Trichlorofluoromethane	2000 ug/mL		
					Vinyl chloride	2000 ug/mL		
.VMSOMCALas_00035	09/02/17	Restek, Lot A0117727		(Purchased Reagent)	1,1,1-Trichloroethane	2000 ug/mL		
					1,1,2,2-Tetrachloroethane	2000 ug/mL		
					1,1,2-Trichloro-1,2,2-trifluor oethane	2000 ug/mL		
					1,1,2-Trichloroethane	2000 ug/mL		
					1,1-Dichloroethane	2000 ug/mL		
					1,1-Dichloroethene	2000 ug/mL		
					1,2,3-Trichlorobenzene	2000 ug/mL		
					1,2,4-Trichlorobenzene	2000 ug/mL		
					1,2-Dibromo-3-chloropropane	2000 ug/mL		
					1,2-Dibromoethane	2000 ug/mL		
					1,2-Dichlorobenzene	2000 ug/mL		
					1,2-Dichloroethane	2000 ug/mL		
					1,2-Dichloropropane	2000 ug/mL		
					1,3-Dichlorobenzene	2000 ug/mL		
					1,4-Dichlorobenzene	2000 ug/mL		
					Benzene	2000 ug/mL		
					Bromochloromethane	2000 ug/mL		
					Bromodichloromethane	2000 ug/mL		
					Bromoform	2000 ug/mL		
					Carbon disulfide	2000 ug/mL		
					Carbon tetrachloride	2000 ug/mL		
					Chlorobenzene	2000 ug/mL		
					Chloroform	2000 ug/mL		
					cis-1,2-Dichloroethene	2000 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37664-1

SDG No.: 37664

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m,p-Xylene	2000 ug/mL
							Methyl acetate	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
.VMSOMCALbs_00043	08/07/17		Restek, Lot A0110042		(Purchased Reagent)		2-Butanone	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone	5000 ug/mL
							Acetone	5000 ug/mL
.VMSOMSUs_00092	05/30/17		Absolute, Lot 012516		(Purchased Reagent)		Chloroethane-d5	2000 ug/mL
							Vinyl chloride-d3	2000 ug/mL
.VMSOMSUs_00176	09/02/17		Absolute, Lot 071515		(Purchased Reagent)		2-Butanone-d5	2500 ug/mL
							2-Hexanone-d5	2500 ug/mL
.VMSOMSUs_00065	09/27/17		Absolute, Lot 032416		(Purchased Reagent)		1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
							1,1-Dichloroethene-d2	2000 ug/mL
							1,2-Dichlorobenzene-d4	2000 ug/mL
							1,2-Dichloroethane-d4	2000 ug/mL
							1,2-Dichloropropane-d6	2000 ug/mL
							Benzene-d6	2000 ug/mL
							Chloroform-d	2000 ug/mL
							Toluene-d8	2000 ug/mL
							trans-1,3-Dichloropropene-d4	2000 ug/mL
VMSOMTRISw_00129	03/23/17	02/23/17	METHANOL, Lot 157266	4000 uL	VMSOMISs_00033	33.6 uL	1,4-Dichlorobenzene-d4	21 ug/mL
							1,4-Difluorobenzene	21 ug/mL
							Chlorobenzene-d5	21 ug/mL
.VMSOMISs_00033	12/19/17		RESTEK, Lot A0113936		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							1,4-Difluorobenzene	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
VMSOMTRSuw_00124	04/02/17	03/02/17	METHANOL, Lot 157266	4000 uL	VMSOMSUs_00092	42 uL	Chloroethane-d5	21 ug/mL
							Vinyl chloride-d3	21 ug/mL
					VMSOMSUs_00175	336 uL	2-Butanone-d5	210 ug/mL
							2-Hexanone-d5	210 ug/mL
					VMSOMSUs_00073	42 uL	1,1,2,2-Tetrachloroethane-d2	21 ug/mL
							1,1-Dichloroethene-d2	21 ug/mL
							1,2-Dichlorobenzene-d4	21 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37664-1

SDG No.: 37664

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane-d4	21 ug/mL
							1,2-Dichloropropane-d6	21 ug/mL
							Benzene-d6	21 ug/mL
							Chloroform-d	21 ug/mL
							Toluene-d8	21 ug/mL
							trans-1,3-Dichloropropene-d4	21 ug/mL
.VMSOMSUas_00092	05/30/17		Absolute, Lot 012516		(Purchased Reagent)		Chloroethane-d5	2000 ug/mL
							Vinyl chloride-d3	2000 ug/mL
.VMSOMSUbs_00175	08/06/17		Absolute, Lot 071515		(Purchased Reagent)		2-Butanone-d5	2500 ug/mL
							2-Hexanone-d5	2500 ug/mL
.VMSOMSUcs_00073	05/13/17		Absolute, Lot 032416		(Purchased Reagent)		1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
							1,1-Dichloroethene-d2	2000 ug/mL
							1,2-Dichlorobenzene-d4	2000 ug/mL
							1,2-Dichloroethane-d4	2000 ug/mL
							1,2-Dichloropropane-d6	2000 ug/mL
							Benzene-d6	2000 ug/mL
							Chloroform-d	2000 ug/mL
							Toluene-d8	2000 ug/mL
							trans-1,3-Dichloropropene-d4	2000 ug/mL

Method SOM02.3 Vol Tr

Trace Volatile Organic Compounds
(GC/MS) by Method SOM02.3

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-37664-1

SDG No.: 37664

Matrix: Water

Level: Trace

GC Column (1): DB-624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	VCL #	CLA #	DCE #	BUT #	CLF #	DCA #	BEN #	DPA #
AGKMW3-W-39368	200-37664-1	106	115	85	95	103	108	109	85
AGGW2-W-39722	200-37664-2	98	110	81	83	112	104	148 *	85
AGGW2-W-39722 DL	200-37664-2 DL	107	119	83	66	99	103	109	85
AGQCTB-W-39729	200-37664-3	107	121	79	63	98	102	108	84
VHBLK01	200-37664-4	104	118	85	77	94	101	113	85
	MB 200-114778/4	105	113	80	88	99	101	106	82
	MB 200-114852/5	106	110	84	79	96	99	107	81

VCL = Vinyl chloride-d3
 CLA = Chloroethane-d5
 DCE = 1,1-Dichloroethene-d2
 BUT = 2-Butanone-d5
 CLF = Chloroform-d
 DCA = 1,2-Dichloroethane-d4
 BEN = Benzene-d6
 DPA = 1,2-Dichloropropane-d6

QC LIMITS
 40-130
 65-130
 60-125
 40-130
 70-125
 70-130
 70-125
 60-140

Column to be used to flag recovery values

FORM II SOM02.2/VOA_Tr

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-37664-1

SDG No.: 37664

Matrix: Water

Level: Trace

GC Column (1): DB-624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	TOL #	TDP #	HEX #	TCA #	DCZ #
AGKMW3-W-39368	200-37664-1	109	97	104	94	121 *
AGGW2-W-39722	200-37664-2	111	95	103	96	125 *
AGGW2-W-39722 DL	200-37664-2 DL	111	90	78	87	127 * D
AGQCTB-W-39729	200-37664-3	110	87	74	86	87
VHBLK01	200-37664-4	112	90	83	85	123 *
	MB 200-114778/4	105	94	95	89	115
	MB 200-114852/5	107	93	85	85	118

TOL = Toluene-d8
TDP = trans-1,3-Dichloropropene-d4
HEX = 2-Hexanone-d5
TCA = 1,1,2,2-Tetrachloroethane-d2
DCZ = 1,2-Dichlorobenzene-d4

QC LIMITS
70-130
55-130
45-130
65-120
80-120

Column to be used to flag recovery values

FORM II SOM02.2/VOA_Tr

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
SDG No.: 37664
Lab File ID: 24259_04.D Lab Sample ID: MB 200-114778/4
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: CHD.i Date Analyzed: 03/09/2017 11:43
GC Column: DB-624 ID: 0.2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
AGKMW3-W-39368	200-37664-1	24259_05.D	03/09/2017 12:47
AGGW2-W-39722	200-37664-2	24259_07.D	03/09/2017 13:39

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
SDG No.: 37664
Lab File ID: 24294_05.D Lab Sample ID: MB 200-114852/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: CHD.i Date Analyzed: 03/13/2017 11:35
GC Column: DB-624 ID: 0.2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
AGGW2-W-39722 DL	200-37664-2 DL	24294_10.D	03/13/2017 14:06
AGQCTB-W-39729	200-37664-3	24294_12.D	03/13/2017 14:58
VHBLK01	200-37664-4	24294_13.D	03/13/2017 15:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
SDG No.: 37664
Lab File ID: 24228_01.D BFB Injection Date: 03/08/2017
Instrument ID: CHD.i BFB Injection Time: 08:13
Analysis Batch No.: 114709

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.8
75	30.0 - 80.0% of mass 95	45.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.9 (1.0) 1
174	50.0 - 120% of mass 95	92.7
175	5.0 - 9.0% of mass 174	6.6 (7.2) 1
176	95.0 - 101% of mass 174	88.4 (95.4) 1
177	5.0 - 9.0% of mass 176	5.8 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-114709/6	24228_06.D	03/08/2017	10:54
	IC 200-114709/7	24228_07.D	03/08/2017	11:20
	ICIS 200-114709/8	24228_08.D	03/08/2017	11:46
	IC 200-114709/9	24228_09.D	03/08/2017	12:12
	IC 200-114709/10	24228_10.D	03/08/2017	12:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
SDG No.: 37664
Lab File ID: 24259_01.D BFB Injection Date: 03/09/2017
Instrument ID: CHD.i BFB Injection Time: 10:26
Analysis Batch No.: 114778

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 80.0% of mass 95	46.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.0) 1
174	50.0 - 120% of mass 95	85.2
175	5.0 - 9.0% of mass 174	6.3 (7.4) 1
176	95.0 - 101% of mass 174	81.7 (95.9) 1
177	5.0 - 9.0% of mass 176	5.0 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-114778/3	24259_03.D	03/09/2017	11:18
	MB 200-114778/4	24259_04.D	03/09/2017	11:43
AGKMW3-W-39368	200-37664-1	24259_05.D	03/09/2017	12:47
AGGW2-W-39722	200-37664-2	24259_07.D	03/09/2017	13:39
	CCVC 200-114778/9	24259_09.D	03/09/2017	14:30
	CCVC 200-114778/10	24259_10.D	03/09/2017	14:56

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
SDG No.: 37664
Lab File ID: 24294_01.D BFB Injection Date: 03/13/2017
Instrument ID: CHD.i BFB Injection Time: 08:52
Analysis Batch No.: 114852

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 80.0% of mass 95	46.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (1.0) 1
174	50.0 - 120% of mass 95	83.4
175	5.0 - 9.0% of mass 174	5.9 (7.0) 1
176	95.0 - 101% of mass 174	79.4 (95.2) 1
177	5.0 - 9.0% of mass 176	5.0 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-114852/4	24294_04.D	03/13/2017	11:10
	MB 200-114852/5	24294_05.D	03/13/2017	11:35
AGGW2-W-39722 DL	200-37664-2 DL	24294_10.D	03/13/2017	14:06
AGQCTB-W-39729	200-37664-3	24294_12.D	03/13/2017	14:58
VHBLK01	200-37664-4	24294_13.D	03/13/2017	15:24
	CCVC 200-114852/15	24294_15.D	03/13/2017	16:15

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
 SDG No.: 37664
 Sample No.: CCVIS 200-114852/4 Date Analyzed: 03/13/2017 11:10
 Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm)
 Lab File ID (Standard): 24294_04.D Heated Purge: (Y/N) N
 Calibration ID: 36778

	DFBZ		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	3136288	5.96	2424627	9.31	1106267	12.13
UPPER LIMIT	6272576	6.13	4849254	9.48	2212534	12.29
LOWER LIMIT	1568144	5.79	1212314	9.15	553134	11.96
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 200-114852/5		2877525	5.96	2231069	9.31	798534 12.13
200-37664-2 DL	AGGW2-W-39722 DL	2712751	5.97	2108311	9.31	668170 12.13
200-37664-3	AGQCTB-W-39729	2710868	5.97	2106110	9.31	1001131 12.13
200-37664-4	VHBLK01	2962121	5.97	2204815	9.31	704925 12.13
CCVC 200-114852/15		2869770	5.97	2263240	9.31	1051753 12.13

DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.1667 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGKMW3-W-39368</u>	Lab Sample ID: <u>200-37664-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 09:15</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 12:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	5.0	U	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGKMW3-W-39368</u>	Lab Sample ID: <u>200-37664-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 09:15</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 12:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	106		40-130
19199-91-8	Chloroethane-d5	115		65-130
22280-73-5	1,1-Dichloroethene-d2	85		60-125
24313-50-6	2-Butanone-d5	95		40-130
865-49-6	Chloroform-d	103		70-125
17060-07-0	1,2-Dichloroethane-d4	108		70-130
1076-43-3	Benzene-d6	109		70-125
93952-08-0	1,2-Dichloropropane-d6	85		60-140
2037-26-5	Toluene-d8	109		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	97		55-130
4840-82-8	2-Hexanone-d5	104		45-130
33685-54-0	1,1,1,2,2-Tetrachloroethane-d2	94		65-120
2199-69-1	1,2-Dichlorobenzene-d4	121	*	80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGKMW3-W-39368</u>	Lab Sample ID: <u>200-37664-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 09:15</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 12:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>
Number TICs Found: <u>3</u>	TIC Result Total: <u>29.9</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.38	11	J	
	Unknown	1.43	16	J	
	Unknown	7.28	2.9	J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGKMW3-W-39368</u>	Lab Sample ID: <u>200-37664-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 09:15</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 12:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGGW2-W-39722</u>	Lab Sample ID: <u>200-37664-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_07.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/06/2017 18:20</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 13:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	5.0	U	5.0	
75-15-0	Carbon disulfide	0.19	J	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	20		0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	260	E	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.087	J	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.15	J	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGGW2-W-39722</u>	Lab Sample ID: <u>200-37664-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_07.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/06/2017 18:20</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 13:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	98		40-130
19199-91-8	Chloroethane-d5	110		65-130
22280-73-5	1,1-Dichloroethene-d2	81		60-125
24313-50-6	2-Butanone-d5	83		40-130
865-49-6	Chloroform-d	112		70-125
17060-07-0	1,2-Dichloroethane-d4	104		70-130
1076-43-3	Benzene-d6	148	*	70-125
93952-08-0	1,2-Dichloropropane-d6	85		60-140
2037-26-5	Toluene-d8	111		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	95		55-130
4840-82-8	2-Hexanone-d5	103		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	96		65-120
2199-69-1	1,2-Dichlorobenzene-d4	125	*	80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGGW2-W-39722</u>	Lab Sample ID: <u>200-37664-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_07.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/06/2017 18:20</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 13:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>
Number TICs Found: <u>3</u>	TIC Result Total: <u>25.65</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.38	8.0	J	
	Unknown	1.43	12	J	
	Unknown	7.28	2.6	J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGGW2-W-39722</u>	Lab Sample ID: <u>200-37664-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_07.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/06/2017 18:20</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 13:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes		3.1	J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGGW2-W-39722 DL</u>	Lab Sample ID: <u>200-37664-2 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_10.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/06/2017 18:20</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 14:06</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>200</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	100	U	100	
74-87-3	Chloromethane	100	U	100	
75-01-4	Vinyl chloride	100	U	100	
74-83-9	Bromomethane	100	U	100	
75-00-3	Chloroethane	100	U	100	
75-69-4	Trichlorofluoromethane	100	U	100	
75-35-4	1,1-Dichloroethene	100	U	100	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100	
67-64-1	Acetone	1000	U	1000	
75-15-0	Carbon disulfide	100	U	100	
79-20-9	Methyl acetate	100	U	100	
75-09-2	Methylene Chloride	100	U	100	
156-60-5	trans-1,2-Dichloroethene	100	U	100	
1634-04-4	Methyl tert-butyl ether	100	U	100	
75-34-3	1,1-Dichloroethane	100	U	100	
156-59-2	cis-1,2-Dichloroethene	100	U	100	
78-93-3	2-Butanone	1000	U	1000	
74-97-5	Bromochloromethane	100	U	100	
67-66-3	Chloroform	62	J D	100	
71-55-6	1,1,1-Trichloroethane	100	U	100	
110-82-7	Cyclohexane	100	U	100	
56-23-5	Carbon tetrachloride	2800	D	100	
71-43-2	Benzene	100	U	100	
107-06-2	1,2-Dichloroethane	100	U	100	
79-01-6	Trichloroethene	100	U	100	
108-87-2	Methylcyclohexane	100	U	100	
78-87-5	1,2-Dichloropropane	100	U	100	
75-27-4	Bromodichloromethane	100	U	100	
10061-01-5	cis-1,3-Dichloropropene	100	U	100	
108-10-1	4-Methyl-2-pentanone	1000	U	1000	
108-88-3	Toluene	100	U	100	
10061-02-6	trans-1,3-Dichloropropene	100	U	100	
79-00-5	1,1,2-Trichloroethane	100	U	100	
127-18-4	Tetrachloroethene	100	U	100	
591-78-6	2-Hexanone	1000	U	1000	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGGW2-W-39722 DL</u>	Lab Sample ID: <u>200-37664-2 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_10.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/06/2017 18:20</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 14:06</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>200</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	100	U	100	
106-93-4	1,2-Dibromoethane	100	U	100	
108-90-7	Chlorobenzene	100	U	100	
100-41-4	Ethylbenzene	100	U	100	
95-47-6	o-Xylene	100	U	100	
179601-23-1	m,p-Xylene	100	U	100	
100-42-5	Styrene	100	U	100	
75-25-2	Bromoform	100	U	100	
98-82-8	Isopropylbenzene	100	U	100	
79-34-5	1,1,2,2-Tetrachloroethane	100	U	100	
541-73-1	1,3-Dichlorobenzene	100	U	100	
106-46-7	1,4-Dichlorobenzene	100	U	100	
95-50-1	1,2-Dichlorobenzene	100	U	100	
96-12-8	1,2-Dibromo-3-chloropropane	100	U	100	
120-82-1	1,2,4-Trichlorobenzene	100	U	100	
87-61-6	1,2,3-Trichlorobenzene	100	U	100	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	107		40-130
19199-91-8	Chloroethane-d5	119		65-130
22280-73-5	1,1-Dichloroethene-d2	83		60-125
24313-50-6	2-Butanone-d5	66		40-130
865-49-6	Chloroform-d	99		70-125
17060-07-0	1,2-Dichloroethane-d4	103		70-130
1076-43-3	Benzene-d6	109		70-125
93952-08-0	1,2-Dichloropropane-d6	85		60-140
2037-26-5	Toluene-d8	111		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	90		55-130
4840-82-8	2-Hexanone-d5	78		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	87		65-120
2199-69-1	1,2-Dichlorobenzene-d4	127	* D	80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGGW2-W-39722 DL</u>	Lab Sample ID: <u>200-37664-2 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_10.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/06/2017 18:20</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 14:06</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>200</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes		520	J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGQCTB-W-39729</u>	Lab Sample ID: <u>200-37664-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_12.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 16:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 14:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	5.0	U	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.25	J	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGQCTB-W-39729</u>	Lab Sample ID: <u>200-37664-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_12.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 16:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 14:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.058	J	0.50	
179601-23-1	m,p-Xylene	0.065	J	0.50	
100-42-5	Styrene	0.050	J	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	107		40-130
19199-91-8	Chloroethane-d5	121		65-130
22280-73-5	1,1-Dichloroethene-d2	79		60-125
24313-50-6	2-Butanone-d5	63		40-130
865-49-6	Chloroform-d	98		70-125
17060-07-0	1,2-Dichloroethane-d4	102		70-130
1076-43-3	Benzene-d6	108		70-125
93952-08-0	1,2-Dichloropropane-d6	84		60-140
2037-26-5	Toluene-d8	110		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	87		55-130
4840-82-8	2-Hexanone-d5	74		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	86		65-120
2199-69-1	1,2-Dichlorobenzene-d4	87		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGQCTB-W-39729</u>	Lab Sample ID: <u>200-37664-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_12.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 16:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 14:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>4.5</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
5989-27-5	D-Limonene	12.04	2.0	J N	99%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>AGQCTB-W-39729</u>	Lab Sample ID: <u>200-37664-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_12.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/07/2017 16:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 14:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes		2.5	J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>VHBLK01</u>	Lab Sample ID: <u>200-37664-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_13.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/08/2017 11:15</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 15:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	5.0	U	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>VHBLK01</u>	Lab Sample ID: <u>200-37664-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_13.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/08/2017 11:15</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 15:24</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	104		40-130
19199-91-8	Chloroethane-d5	118		65-130
22280-73-5	1,1-Dichloroethene-d2	85		60-125
24313-50-6	2-Butanone-d5	77		40-130
865-49-6	Chloroform-d	94		70-125
17060-07-0	1,2-Dichloroethane-d4	101		70-130
1076-43-3	Benzene-d6	113		70-125
93952-08-0	1,2-Dichloropropane-d6	85		60-140
2037-26-5	Toluene-d8	112		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	90		55-130
4840-82-8	2-Hexanone-d5	83		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	85		65-120
2199-69-1	1,2-Dichlorobenzene-d4	123	*	80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: <u>VHBLK01</u>	Lab Sample ID: <u>200-37664-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_13.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>03/08/2017 11:15</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 15:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes		2.5	J	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-37664-1 Analy Batch No.: 114709

SDG No.: 37664

Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2017 10:54 Calibration End Date: 03/08/2017 12:38 Calibration ID: 36778

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-114709/10	VSTD005AF	24228_10.D
Level 2	IC 200-114709/9	VSTD001AE	24228_09.D
Level 3	ICIS 200-114709/8	VSTD050AD	24228_08.D
Level 4	IC 200-114709/7	VSTD010AC	24228_07.D
Level 5	IC 200-114709/6	VSTD020AB	24228_06.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.5493	0.5178	0.4858	0.5410	0.5819	Ave		0.5352			0.0100	6.7		30.0			
Chloromethane	0.5794	0.5387	0.4733	0.4996	0.4901	Ave		0.5162			0.0100	8.3		30.0			
Vinyl chloride	0.4680	0.4561	0.4355	0.4708	0.4773	Ave		0.4615			0.0100	3.6		30.0			
Bromomethane	0.2649	0.2386	0.1891	0.1890	0.2369	Ave		0.2237			0.0100	15.0		40.0			
Chloroethane	0.3426	0.2859	0.2620	0.2685	0.2877	Ave		0.2893			0.0100	11.0		30.0			
Trichlorofluoromethane	0.7201	0.6654	0.6350	0.6547	0.7310	Ave		0.6812			0.0100	6.2		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3683	0.3723	0.3375	0.3606	0.3968	Ave		0.3671			0.0100	5.8		30.0			
1,1-Dichloroethene	0.3243	0.3327	0.3293	0.3261	0.3550	Ave		0.3335			0.0200	3.7		30.0			
Acetone	0.0211	0.0242	0.0193	0.0196	0.0189	Ave		0.0206			0.0100	10.5		40.0			
Carbon disulfide	1.0495	1.0332	0.9317	1.0069	1.0835	Ave		1.0210			0.0100	5.6		20.0			
Methyl acetate	0.0526	0.0520	0.0513	0.0549	0.0562	Ave		0.0534			0.0100	3.9		40.0			
Methylene Chloride	0.2779	0.2740	0.2544	0.2666	0.2853	Ave		0.2716			0.0100	4.3		40.0			
Methyl tert-butyl ether	0.2356	0.2538	0.2908	0.3346	0.3658	Ave		0.2961			0.0100	18.3		30.0			
trans-1,2-Dichloroethene	0.3259	0.3321	0.3308	0.3576	0.3857	Ave		0.3464			0.0700	7.3		20.0			
1,1-Dichloroethane	0.6299	0.6130	0.6100	0.6309	0.6895	Ave		0.6347			0.1000	5.1		20.0			
cis-1,2-Dichloroethene	0.2819	0.2993	0.3180	0.3518	0.3868	Ave		0.3276			0.1000	12.8		20.0			
2-Butanone	0.0282	0.0327	0.0305	0.0327	0.0334	Ave		0.0315			0.0100	6.8		40.0			
Bromochloromethane	0.1110	0.1109	0.1019	0.1111	0.1176	Ave		0.1105			0.0200	5.1		20.0			
Chloroform	0.5839	0.5674	0.5435	0.5599	0.6076	Ave		0.5724			0.0400	4.3		20.0			
1,1,1-Trichloroethane	0.7996	0.7525	0.7483	0.7484	0.7871	Ave		0.7672			0.0500	3.2		30.0			
Cyclohexane	0.5446	0.6363	0.7795	0.8787	0.9423	Ave		0.7563			0.1000	21.9		30.0			
Carbon tetrachloride	0.7373	0.6805	0.6666	0.6727	0.7166	Ave		0.6947			0.0200	4.4		20.0			
Benzene	1.5176	1.5892	1.6736	1.7093	1.8250	Ave		1.6629			0.3000	7.1		20.0			
1,2-Dichloroethane	0.2462	0.2530	0.2366	0.2477	0.2685	Ave		0.2504			0.0100	4.7		20.0			
Trichloroethene	0.4055	0.4047	0.4154	0.4475	0.4842	Ave		0.4315			0.1000	7.9		20.0			
Methylcyclohexane	0.5095	0.5839	0.6227	0.7405	0.7838	Ave		0.6480			0.2000	17.4		30.0			
1,2-Dichloropropane	0.3358	0.3543	0.3481	0.3568	0.3845	Ave		0.3559			0.1000	5.0		20.0			
Bromodichloromethane	0.4157	0.4006	0.3923	0.4062	0.4356	Ave		0.4101			0.0900	4.0		20.0			
cis-1,3-Dichloropropene	0.3143	0.3527	0.4300	0.4659	0.5106	Ave		0.4147			0.1000	19.4		20.0			
4-Methyl-2-pentanone	0.0626	0.0755	0.0882	0.0975	0.1040	Ave		0.0856			0.0100	19.6		30.0			
Toluene	1.3490	1.5267	1.7729	1.8726	1.9037	Ave		1.6850			0.4000	14.2		20.0			
trans-1,3-Dichloropropene	0.2302	0.2518	0.2899	0.3196	0.3565	Ave		0.2896			0.0100	17.5		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-37664-1 Analy Batch No.: 114709

SDG No.: 37664

Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2017 10:54 Calibration End Date: 03/08/2017 12:38 Calibration ID: 36778

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloroethane	0.1691	0.1667	0.1618	0.1676	0.1813	Ave		0.1693			0.0400	4.3		20.0			
Tetrachloroethene	0.3691	0.3787	0.3648	0.4117	0.4420	Ave		0.3933			0.1000	8.4		20.0			
2-Hexanone	0.0428	0.0514	0.0593	0.0657	0.0684	Ave		0.0575			0.0100	18.3		40.0			
Dibromochloromethane	0.2346	0.2299	0.2287	0.2390	0.2581	Ave		0.2381			0.0500	5.0		20.0			
1,2-Dibromoethane	0.1347	0.1384	0.1366	0.1482	0.1577	Ave		0.1432			0.0100	6.8		20.0			
Chlorobenzene	1.1169	1.0965	1.0862	1.1629	1.2698	Ave		1.1465			0.4000	6.5		20.0			
Ethylbenzene	1.3394	1.5547	1.9896	2.2092	2.0137	Ave		1.8213			0.5000	19.8		20.0			
m,p-Xylene	0.4990	0.6192	0.7859	0.8790	0.9476	Ave		0.7461			0.2000	24.8	*	20.0			
o-Xylene	0.4112	0.5112	0.7184	0.7925	0.8511	Ave		0.6569			0.3000	28.6		30.0			
Styrene	0.6608	0.8990	1.1046	1.2020	1.2661	Ave		1.0265			0.2000	24.1		30.0			
Bromoform	0.2743	0.2560	0.2430	0.2453	0.2539	Ave		0.2545			0.0100	4.9		30.0			
Isopropylbenzene	1.1381	1.4291	2.0498	2.3377	1.8439	Ave		1.7597			0.7000	27.3		30.0			
1,1,2,2-Tetrachloroethane	0.1515	0.1524	0.1438	0.1548	0.1650	Ave		0.1535			0.0500	5.0		20.0			
1,3-Dichlorobenzene	1.4274	1.4595	1.5607	1.8289	1.9175	Ave		1.6388			0.5000	13.5		20.0			
1,4-Dichlorobenzene	2.0034	1.8471	1.6387	1.8140	1.8534	Ave		1.8313			0.7000	7.1		20.0			
1,2-Dichlorobenzene	1.2705	1.3294	1.3309	1.4510	1.4951	Ave		1.3754			0.4000	6.8		20.0			
1,2-Dibromo-3-chloropropane	0.0575	0.0537	0.0426	0.0448	0.0464	Ave		0.0490			0.0100	12.9		40.0			
1,2,4-Trichlorobenzene	0.5505	0.6166	0.5637	0.7952	0.8206	Ave		0.6693			0.3000	19.3		30.0			
1,2,3-Trichlorobenzene	0.4032	0.4620	0.3850	0.5098	0.4969	Ave		0.4514			0.2000	12.3		30.0			
Vinyl chloride-d3	0.3510	0.3382	0.3219	0.3482	0.3564	Ave		0.3431			0.0100	4.0		30.0			
Chloroethane-d5	0.3106	0.2699	0.2456	0.2469	0.2831	Ave		0.2712			0.0100	10.0		30.0			
1,1-Dichloroethene-d2	0.6894	0.7138	0.7040	0.7040	0.7790	Ave		0.7180			0.0100	4.9		30.0			
2-Butanone-d5	0.0251	0.0301	0.0279	0.0314	0.0316	Ave		0.0292			0.0100	9.3		40.0			
Chloroform-d	0.6033	0.5927	0.5677	0.5895	0.6400	Ave		0.5986			0.0100	4.4		20.0			
1,2-Dichloroethane-d4	0.1985	0.2012	0.1797	0.1909	0.2044	Ave		0.1950			0.0100	5.1		20.0			
Benzene-d6	1.4157	1.4739	1.5995	1.6622	1.7726	Ave		1.5848			0.0300	9.1		20.0			
1,2-Dichloropropane-d6	0.4766	0.4691	0.4401	0.4522	0.4764	Ave		0.4629			0.1000	3.5		20.0			
Toluene-d8	1.1453	1.2927	1.5180	1.6117	1.7335	Ave		1.4602			0.2000	16.4		20.0			
trans-1,3-Dichloropropene-d4	0.2003	0.2102	0.2382	0.2698	0.3023	Ave		0.2442			0.0100	17.3		30.0			
2-Hexanone-d5	0.0129	0.0168	0.0250	0.0300	0.0330	Ave		0.0235			0.0100	36.2		40.0			
1,1,2,2-Tetrachloroethane-d2	0.1577	0.1559	0.1430	0.1555	0.1654	Ave		0.1555			0.0100	5.2		20.0			
1,2-Dichlorobenzene-d4	0.7469	0.7485	0.7551	0.8507	0.8842	Ave		0.7971			0.0600	8.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-37664-1 Analy Batch No.: 114709

SDG No.: 37664

Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2017 10:54 Calibration End Date: 03/08/2017 12:38 Calibration ID: 36778

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-114709/10	24228_10.D
Level 2	IC 200-114709/9	24228_09.D
Level 3	ICIS 200-114709/8	24228_08.D
Level 4	IC 200-114709/7	24228_07.D
Level 5	IC 200-114709/6	24228_06.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	DFBZ	Ave	161042	320549	1618282	3486406	7133114	12.5	25.0	125	250	500
Chloromethane	DFBZ	Ave	169861	333444	1576618	3219166	6007884	12.5	25.0	125	250	500
Vinyl chloride	DFBZ	Ave	137190	282355	1450691	3033984	5851117	12.5	25.0	125	250	500
Bromomethane	DFBZ	Ave	77652	147689	629970	1218094	2903631	12.5	25.0	125	250	500
Chloroethane	DFBZ	Ave	100449	177007	872862	1729983	3526616	12.5	25.0	125	250	500
Trichlorofluoromethane	DFBZ	Ave	211108	411887	2115365	4218970	8961587	12.5	25.0	125	250	500
1,1,2-Trichloro-1,2,2-trifluoroethane	DFBZ	Ave	107968	230439	1124302	2323583	4864446	12.5	25.0	125	250	500
1,1-Dichloroethene	DFBZ	Ave	95078	205980	1097052	2101703	4351786	12.5	25.0	125	250	500
Acetone	DFBZ	Ave	61850	149988	643315	1266162	2315260	125	250	1250	2499	4998
Carbon disulfide	DFBZ	Ave	307687	639552	3103946	6488607	13282100	12.5	25.0	125	250	500
Methyl acetate	DFBZ	Ave	15428	32169	170982	353461	689256	12.5	25.0	125	250	500
Methylene Chloride	DFBZ	Ave	81475	169585	847616	1718267	3497412	12.5	25.0	125	250	500
Methyl tert-butyl ether	DFBZ	Ave	69082	157099	968924	2156443	4483701	12.5	25.0	125	250	500
trans-1,2-Dichloroethene	DFBZ	Ave	95557	205565	1102023	2304405	4727731	12.5	25.0	125	250	500
1,1-Dichloroethane	DFBZ	Ave	184679	379488	2032101	4065243	8452869	12.5	25.0	125	250	500
cis-1,2-Dichloroethene	DFBZ	Ave	82656	185272	1059402	2267252	4741882	12.5	25.0	125	250	500
2-Butanone	DFBZ	Ave	82690	202125	1016943	2104034	4100392	125	250	1250	2499	4998
Bromochloromethane	DFBZ	Ave	32529	68643	339393	715766	1441348	12.5	25.0	125	250	500
Chloroform	DFBZ	Ave	171170	351225	1810555	3607866	7448345	12.5	25.0	125	250	500
1,1,1-Trichloroethane	CBNZd	Ave	184886	369053	1973297	3931657	8103373	12.5	25.0	125	250	500
Cyclohexane	CBNZd	Ave	125920	312064	2055722	4616050	9701097	12.5	25.0	125	250	500
Carbon tetrachloride	CBNZd	Ave	170486	333761	1757951	3534112	7376727	12.5	25.0	125	250	500
Benzene	CBNZd	Ave	350924	779442	4413280	8980130	18787912	12.5	25.0	125	250	500
1,2-Dichloroethane	DFBZ	Ave	72184	156622	788153	1596221	3291918	12.5	25.0	125	250	500
Trichloroethene	CBNZd	Ave	93776	198477	1095523	2350924	4984729	12.5	25.0	125	250	500
Methylcyclohexane	CBNZd	Ave	117805	286368	1642004	3889994	8068573	12.5	25.0	125	250	500
1,2-Dichloropropane	CBNZd	Ave	77650	173770	917988	1874260	3958290	12.5	25.0	125	250	500
Bromodichloromethane	CBNZd	Ave	96116	196483	1034599	2134177	4484434	12.5	25.0	125	250	500
cis-1,3-Dichloropropene	CBNZd	Ave	72678	172977	1133848	2447483	5256235	12.5	25.0	125	250	500
4-Methyl-2-pentanone	CBNZd	Ave	144759	370144	2325557	5123623	10708905	125	250	1250	2499	4998
Toluene	CBNZd	Ave	311931	748764	4675242	9837804	19598294	12.5	25.0	125	250	500
trans-1,3-Dichloropropene	CBNZd	Ave	53240	123493	764432	1679219	3669813	12.5	25.0	125	250	500
1,1,2-Trichloroethane	CBNZd	Ave	39112	81750	426643	880328	1865945	12.5	25.0	125	250	500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-37664-1 Analy Batch No.: 114709

SDG No.: 37664

Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2017 10:54 Calibration End Date: 03/08/2017 12:38 Calibration ID: 36778

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBNZd	Ave	85359	185714	962028	2162922	4550290	12.5	25.0	125	250	500
2-Hexanone	CBNZd	Ave	98921	252212	1564087	3451327	7046258	125	250	1250	2499	4998
Dibromochloromethane	CBNZd	Ave	54244	112753	603132	1255506	2657216	12.5	25.0	125	250	500
1,2-Dibromoethane	CBNZd	Ave	31155	67896	360233	778820	1623850	12.5	25.0	125	250	500
Chlorobenzene	CBNZd	Ave	258270	537795	2864401	6109545	13072609	12.5	25.0	125	250	500
Ethylbenzene	CBNZd	Ave	309708	762487	5246679	11606320	20730186	12.5	25.0	125	250	500
m,p-Xylene	CBNZd	Ave	115380	303690	2072384	4617849	9755071	12.5	25.0	125	250	500
o-Xylene	CBNZd	Ave	95092	250704	1894428	4163205	8762129	12.5	25.0	125	250	500
Styrene	CBNZd	Ave	152796	440933	2912828	6314737	13034173	12.5	25.0	125	250	500
Bromoform	DCBd4	Ave	25339	53350	290941	615922	1295755	12.5	25.0	125	250	500
Isopropylbenzene	CBNZd	Ave	263176	700917	5405324	12281322	18981915	12.5	25.0	125	250	500
1,1,2,2-Tetrachloroethane	CBNZd	Ave	35041	74743	379147	813154	1698348	12.5	25.0	125	250	500
1,3-Dichlorobenzene	DCBd4	Ave	131871	304113	1868987	4591295	9785533	12.5	25.0	125	250	500
1,4-Dichlorobenzene	DCBd4	Ave	185085	384879	1962333	4553900	9458228	12.5	25.0	125	250	500
1,2-Dichlorobenzene	DCBd4	Ave	117376	277007	1593788	3642763	7630088	12.5	25.0	125	250	500
1,2-Dibromo-3-chloropropane	DCBd4	Ave	5315	11200	51033	112403	236615	12.5	25.0	125	250	500
1,2,4-Trichlorobenzene	DCBd4	Ave	50859	128490	675009	1996355	4187540	12.5	25.0	125	250	500
1,2,3-Trichlorobenzene	DCBd4	Ave	37251	96267	460990	1279721	2535607	12.5	25.0	125	250	500
Vinyl chloride-d3	DFBZ	Ave	102888	209380	1072233	2243608	4368590	12.5	25.0	125	250	500
Chloroethane-d5	DFBZ	Ave	91064	167104	818345	1591301	3470386	12.5	25.0	125	250	500
1,1-Dichloroethene-d2	DFBZ	Ave	202115	441834	2345300	4536308	9549732	12.5	25.0	125	250	500
2-Butanone-d5	DFBZ	Ave	73712	186167	930770	2023713	3873896	125	250	1250	2499	4998
Chloroform-d	DFBZ	Ave	176880	366882	1891151	3798948	7845458	12.5	25.0	125	250	500
1,2-Dichloroethane-d4	DFBZ	Ave	58193	124572	598755	1230452	2506067	12.5	25.0	125	250	500
Benzene-d6	CBNZd	Ave	327365	722861	4218010	8732278	18248616	12.5	25.0	125	250	500
1,2-Dichloropropane-d6	CBNZd	Ave	110203	230048	1160565	2375747	4903863	12.5	25.0	125	250	500
Toluene-d8	CBNZd	Ave	264838	634025	4002997	8466946	17845532	12.5	25.0	125	250	500
trans-1,3-Dichloropropene-d4	CBNZd	Ave	46312	103105	628030	1417380	3112532	12.5	25.0	125	250	500
2-Hexanone-d5	CBNZd	Ave	29922	82284	660313	1574116	3396973	125	250	1250	2499	4998
1,1,2,2-Tetrachloroethane-d2	CBNZd	Ave	36459	76458	377017	816896	1702512	12.5	25.0	125	250	500
1,2-Dichlorobenzene-d4	DCBd4	Ave	68999	155973	904251	2135583	4512566	12.5	25.0	125	250	500

Curve Type Legend:

Ave = Average ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1

SDG No.: 37664

Lab Sample ID: CCVIS 200-114778/3 Calibration Date: 03/09/2017 11:18

Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54

GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38

Lab File ID: 24259_03.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5352	0.5202	0.0100	4.90	5.00	-2.8	40.0
Chloromethane	Ave	0.5162	0.4705	0.0100	4.60	5.00	-8.9	30.0
Vinyl chloride	Ave	0.4615	0.4392	0.0100	4.80	5.00	-4.8	30.0
Bromomethane	Ave	0.2237	0.2320	0.0100	5.20	5.00	3.7	30.0
Chloroethane	Ave	0.2893	0.2860	0.0100	4.90	5.00	-1.1	30.0
Trichlorofluoromethane	Ave	0.6812	0.6876	0.0100	5.00	5.00	0.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3671	0.3746	0.0100	5.10	5.00	2.0	30.0
1,1-Dichloroethene	Ave	0.3335	0.3205	0.0200	4.80	5.00	-3.9	20.0
Acetone	Ave	0.0206	0.0166	0.0100	40.0	50.0	-19.7	40.0
Carbon disulfide	Ave	1.021	0.9939	0.0100	4.90	5.00	-2.7	25.0
Methyl acetate	Ave	0.0534	0.0504	0.0100	4.70	5.00	-5.6	40.0
Methylene Chloride	Ave	0.2716	0.2598	0.0100	4.80	5.00	-4.4	30.0
Methyl tert-butyl ether	Ave	0.2961	0.2585	0.0100	4.40	5.00	-12.7	30.0
trans-1,2-Dichloroethene	Ave	0.3464	0.3358	0.0700	4.80	5.00	-3.1	20.0
1,1-Dichloroethane	Ave	0.6347	0.6024	0.1000	4.70	5.00	-5.1	20.0
cis-1,2-Dichloroethene	Ave	0.3276	0.3218	0.1000	4.90	5.00	-1.8	20.0
2-Butanone	Ave	0.0315	0.0286	0.0100	45.0	50.0	-9.2	40.0
Bromochloromethane	Ave	0.1105	0.1032	0.0200	4.70	5.00	-6.6	20.0
Chloroform	Ave	0.5724	0.5565	0.0400	4.90	5.00	-2.8	20.0
1,1,1-Trichloroethane	Ave	0.7672	0.7511	0.0500	4.90	5.00	-2.1	20.0
Cyclohexane	Ave	0.7563	0.7818	0.1000	5.20	5.00	3.4	25.0
Carbon tetrachloride	Ave	0.6947	0.6916	0.0200	5.00	5.00	-0.5	25.0
Benzene	Ave	1.663	1.697	0.3000	5.10	5.00	2.0	20.0
1,2-Dichloroethane	Ave	0.2504	0.2417	0.0100	4.80	5.00	-3.5	25.0
Trichloroethene	Ave	0.4315	0.4168	0.1000	4.80	5.00	-3.4	20.0
Methylcyclohexane	Ave	0.6480	0.7094	0.2000	5.50	5.00	9.5	25.0
1,2-Dichloropropane	Ave	0.3559	0.3569	0.1000	5.00	5.00	0.3	20.0
Bromodichloromethane	Ave	0.4101	0.3967	0.0900	4.80	5.00	-3.3	20.0
cis-1,3-Dichloropropene	Ave	0.4147	0.4325	0.1000	5.20	5.00	4.3	20.0
4-Methyl-2-pentanone	Ave	0.0856	0.0880	0.0100	51.0	50.0	2.8	30.0
Toluene	Ave	1.685	1.849	0.4000	5.50	5.00	9.7	20.0
trans-1,3-Dichloropropene	Ave	0.2896	0.2880	0.0100	5.00	5.00	-0.6	20.0
1,1,2-Trichloroethane	Ave	0.1693	0.1637	0.0400	4.80	5.00	-3.3	20.0
Tetrachloroethene	Ave	0.3933	0.3954	0.1000	5.00	5.00	0.5	20.0
2-Hexanone	Ave	0.0575	0.0594	0.0100	52.0	50.0	3.2	40.0
Dibromochloromethane	Ave	0.2381	0.2310	0.0500	4.90	5.00	-3.0	20.0
1,2-Dibromoethane	Ave	0.1432	0.1352	0.0100	4.70	5.00	-5.5	20.0
Chlorobenzene	Ave	1.146	1.134	0.4000	4.90	5.00	-1.1	20.0
Ethylbenzene	Ave	1.821	2.099	0.5000	5.80	5.00	15.3	20.0
m,p-Xylene	Ave	0.7461	0.8437	0.2000	5.70	5.00	13.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
 SDG No.: 37664
 Lab Sample ID: CCVIS 200-114778/3 Calibration Date: 03/09/2017 11:18
 Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38
 Lab File ID: 24259_03.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
o-Xylene	Ave	0.6569	0.7465	0.3000	5.70	5.00	13.6	20.0
Styrene	Ave	1.026	1.168	0.2000	5.70	5.00	13.8	20.0
Bromoform	Ave	0.2545	0.2316	0.0100	4.50	5.00	-9.0	30.0
Isopropylbenzene	Ave	1.760	2.181	0.7000	6.20	5.00	24.0	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1535	0.1475	0.0500	4.80	5.00	-3.9	25.0
1,3-Dichlorobenzene	Ave	1.639	1.524	0.5000	4.60	5.00	-7.0	20.0
1,4-Dichlorobenzene	Ave	1.831	1.701	0.7000	4.60	5.00	-7.1	20.0
1,2-Dichlorobenzene	Ave	1.375	1.341	0.4000	4.90	5.00	-2.5	20.0
1,2-Dibromo-3-chloropropane	Ave	0.0490	0.0377	0.0100	3.80	5.00	-23.1	40.0
1,2,4-Trichlorobenzene	Ave	0.6693	0.5085	0.3000	3.80	5.00	-24.0	30.0
1,2,3-Trichlorobenzene	Ave	0.4514	0.2919	0.2000	3.20	5.00	-35.3	40.0
Vinyl chloride-d3	Ave	0.3431	0.3224	0.0100	4.70	5.00	-6.0	30.0
Chloroethane-d5	Ave	0.2712	0.2831	0.0100	5.20	5.00	4.4	30.0
1,1-Dichloroethene-d2	Ave	0.7180	0.7107	0.0100	4.90	5.00	-1.0	25.0
2-Butanone-d5	Ave	0.0292	0.0240	0.0100	41.0	50.0	-18.0	40.0
Chloroform-d	Ave	0.5986	0.5881	0.0100	4.90	5.00	-1.8	20.0
1,2-Dichloroethane-d4	Ave	0.1950	0.1867	0.0100	4.80	5.00	-4.3	25.0
Benzene-d6	Ave	1.585	1.611	0.0300	5.10	5.00	1.7	20.0
1,2-Dichloropropane-d6	Ave	0.4629	0.4605	0.1000	5.00	5.00	-0.5	20.0
Toluene-d8	Ave	1.460	1.581	0.2000	5.40	5.00	8.3	20.0
trans-1,3-Dichloropropene-d4	Ave	0.2442	0.2294	0.0100	4.70	5.00	-6.1	25.0
2-Hexanone-d5	Ave	0.0235	0.0238	0.0100	51.0	50.0	1.1	40.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1555	0.1507	0.0100	4.80	5.00	-3.1	25.0
1,2-Dichlorobenzene-d4	Ave	0.7971	0.7449	0.0600	4.70	5.00	-6.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
 SDG No.: 37664
 Lab Sample ID: CCVC 200-114778/9 Calibration Date: 03/09/2017 14:30
 Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38
 Lab File ID: 24259_09.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5352	0.5562	0.0100	5.20	5.00	3.9	50.0
Chloromethane	Ave	0.5162	0.4887	0.0100	4.70	5.00	-5.3	50.0
Vinyl chloride	Ave	0.4615	0.4694	0.0100	5.10	5.00	1.7	50.0
Bromomethane	Ave	0.2237	0.2345	0.0100	5.20	5.00	4.8	50.0
Chloroethane	Ave	0.2893	0.3103	0.0100	5.40	5.00	7.2	50.0
Trichlorofluoromethane	Ave	0.6812	0.7186	0.0100	5.30	5.00	5.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3671	0.4071	0.0100	5.50	5.00	10.9	50.0
1,1-Dichloroethene	Ave	0.3335	0.3501	0.0200	5.20	5.00	5.0	25.0
Acetone	Ave	0.0206	0.0164	0.0100	40.0	50.0	-20.5	50.0
Carbon disulfide	Ave	1.021	1.010	0.0100	4.90	5.00	-1.1	25.0
Methyl acetate	Ave	0.0534	0.0498	0.0100	4.70	5.00	-6.8	50.0
Methylene Chloride	Ave	0.2716	0.2764	0.0100	5.10	5.00	1.7	50.0
Methyl tert-butyl ether	Ave	0.2961	0.2810	0.0100	4.70	5.00	-5.1	50.0
trans-1,2-Dichloroethene	Ave	0.3464	0.3519	0.0700	5.10	5.00	1.6	25.0
1,1-Dichloroethane	Ave	0.6347	0.6464	0.1000	5.10	5.00	1.8	25.0
cis-1,2-Dichloroethene	Ave	0.3276	0.3400	0.1000	5.20	5.00	3.8	25.0
2-Butanone	Ave	0.0315	0.0303	0.0100	48.0	50.0	-3.7	50.0
Bromochloromethane	Ave	0.1105	0.1107	0.0200	5.00	5.00	0.2	25.0
Chloroform	Ave	0.5724	0.5915	0.0400	5.20	5.00	3.3	25.0
1,1,1-Trichloroethane	Ave	0.7672	0.7759	0.0500	5.10	5.00	1.1	25.0
Cyclohexane	Ave	0.7563	0.8324	0.1000	5.50	5.00	10.1	50.0
Carbon tetrachloride	Ave	0.6947	0.7367	0.0200	5.30	5.00	6.0	50.0
Benzene	Ave	1.663	1.749	0.3000	5.30	5.00	5.2	25.0
1,2-Dichloroethane	Ave	0.2504	0.2610	0.0100	5.20	5.00	4.2	50.0
Trichloroethene	Ave	0.4315	0.4331	0.1000	5.00	5.00	0.4	25.0
Methylcyclohexane	Ave	0.6480	0.7334	0.2000	5.70	5.00	13.2	50.0
1,2-Dichloropropane	Ave	0.3559	0.3686	0.1000	5.20	5.00	3.6	25.0
Bromodichloromethane	Ave	0.4101	0.4100	0.0900	5.00	5.00	-0.0	25.0
cis-1,3-Dichloropropene	Ave	0.4147	0.4480	0.1000	5.40	5.00	8.0	25.0
4-Methyl-2-pentanone	Ave	0.0856	0.0904	0.0100	53.0	50.0	5.7	50.0
Toluene	Ave	1.685	1.911	0.4000	5.70	5.00	13.4	25.0
trans-1,3-Dichloropropene	Ave	0.2896	0.2987	0.0100	5.20	5.00	3.1	25.0
1,1,2-Trichloroethane	Ave	0.1693	0.1714	0.0400	5.10	5.00	1.3	25.0
Tetrachloroethene	Ave	0.3933	0.4102	0.1000	5.20	5.00	4.3	25.0
2-Hexanone	Ave	0.0575	0.0608	0.0100	53.0	50.0	5.6	50.0
Dibromochloromethane	Ave	0.2381	0.2376	0.0500	5.00	5.00	-0.2	25.0
1,2-Dibromoethane	Ave	0.1432	0.1423	0.0100	5.00	5.00	-0.6	25.0
Chlorobenzene	Ave	1.146	1.173	0.4000	5.10	5.00	2.3	25.0
Ethylbenzene	Ave	1.821	2.177	0.5000	6.00	5.00	19.6	25.0
m,p-Xylene	Ave	0.7461	0.8653	0.2000	5.80	5.00	16.0	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
 SDG No.: 37664
 Lab Sample ID: CCVC 200-114778/9 Calibration Date: 03/09/2017 14:30
 Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38
 Lab File ID: 24259_09.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
o-Xylene	Ave	0.6569	0.7745	0.3000	5.90	5.00	17.9	25.0
Styrene	Ave	1.026	1.203	0.2000	5.90	5.00	17.2	25.0
Bromoform	Ave	0.2545	0.2364	0.0100	4.60	5.00	-7.1	50.0
Isopropylbenzene	Ave	1.760	2.253	0.7000	6.40	5.00	28.0*	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1535	0.1546	0.0500	5.00	5.00	0.7	25.0
1,3-Dichlorobenzene	Ave	1.639	1.635	0.5000	5.00	5.00	-0.2	25.0
1,4-Dichlorobenzene	Ave	1.831	1.778	0.7000	4.90	5.00	-2.9	25.0
1,2-Dichlorobenzene	Ave	1.375	1.418	0.4000	5.20	5.00	3.1	25.0
1,2-Dibromo-3-chloropropane	Ave	0.0490	0.0411	0.0100	4.20	5.00	-16.2	50.0
1,2,4-Trichlorobenzene	Ave	0.6693	0.5987	0.3000	4.50	5.00	-10.6	50.0
1,2,3-Trichlorobenzene	Ave	0.4514	0.3843	0.2000	4.30	5.00	-14.9	50.0
Vinyl chloride-d3	Ave	0.3431	0.3497	0.0100	5.10	5.00	1.9	50.0
Chloroethane-d5	Ave	0.2712	0.2922	0.0100	5.40	5.00	7.7	50.0
1,1-Dichloroethene-d2	Ave	0.7180	0.7566	0.0100	5.30	5.00	5.4	25.0
2-Butanone-d5	Ave	0.0292	0.0256	0.0100	44.0	50.0	-12.5	50.0
Chloroform-d	Ave	0.5986	0.6261	0.0100	5.20	5.00	4.6	25.0
1,2-Dichloroethane-d4	Ave	0.1950	0.1978	0.0100	5.10	5.00	1.5	25.0
Benzene-d6	Ave	1.585	1.656	0.0300	5.20	5.00	4.5	25.0
1,2-Dichloropropane-d6	Ave	0.4629	0.4795	0.1000	5.20	5.00	3.6	25.0
Toluene-d8	Ave	1.460	1.633	0.2000	5.60	5.00	11.8	25.0
trans-1,3-Dichloropropene-d4	Ave	0.2442	0.2381	0.0100	4.90	5.00	-2.5	25.0
2-Hexanone-d5	Ave	0.0235	0.0248	0.0100	53.0	50.0	5.1	50.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1555	0.1556	0.0100	5.00	5.00	0.0	25.0
1,2-Dichlorobenzene-d4	Ave	0.7971	0.7999	0.0600	5.00	5.00	0.4	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1

SDG No.: 37664

Lab Sample ID: CCVC 200-114778/10 Calibration Date: 03/09/2017 14:56

Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54

GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38

Lab File ID: 24259_10.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5352	0.5296	0.0100	4.90	5.00	-1.0	50.0
Chloromethane	Ave	0.5162	0.5051	0.0100	4.90	5.00	-2.1	50.0
Vinyl chloride	Ave	0.4615	0.4668	0.0100	5.10	5.00	1.1	50.0
Bromomethane	Ave	0.2237	0.2291	0.0100	5.10	5.00	2.4	50.0
Chloroethane	Ave	0.2893	0.3024	0.0100	5.20	5.00	4.5	50.0
Trichlorofluoromethane	Ave	0.6812	0.6849	0.0100	5.00	5.00	0.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3671	0.3749	0.0100	5.10	5.00	2.1	50.0
1,1-Dichloroethene	Ave	0.3335	0.3422	0.0200	5.10	5.00	2.6	25.0
Acetone	Ave	0.0206	0.0170	0.0100	41.0	50.0	-17.5	50.0
Carbon disulfide	Ave	1.021	0.9546	0.0100	4.70	5.00	-6.5	25.0
Methyl acetate	Ave	0.0534	0.0505	0.0100	4.70	5.00	-5.5	50.0
Methylene Chloride	Ave	0.2716	0.2683	0.0100	4.90	5.00	-1.2	50.0
Methyl tert-butyl ether	Ave	0.2961	0.2964	0.0100	5.00	5.00	0.0	50.0
trans-1,2-Dichloroethene	Ave	0.3464	0.3493	0.0700	5.00	5.00	0.8	25.0
1,1-Dichloroethane	Ave	0.6347	0.6281	0.1000	4.90	5.00	-1.0	25.0
cis-1,2-Dichloroethene	Ave	0.3276	0.3391	0.1000	5.20	5.00	3.5	25.0
2-Butanone	Ave	0.0315	0.0312	0.0100	49.0	50.0	-1.0	50.0
Bromochloromethane	Ave	0.1105	0.1059	0.0200	4.80	5.00	-4.1	25.0
Chloroform	Ave	0.5724	0.5668	0.0400	4.90	5.00	-1.0	25.0
1,1,1-Trichloroethane	Ave	0.7672	0.7416	0.0500	4.80	5.00	-3.3	25.0
Cyclohexane	Ave	0.7563	0.8042	0.1000	5.30	5.00	6.3	50.0
Carbon tetrachloride	Ave	0.6947	0.6773	0.0200	4.90	5.00	-2.5	50.0
Benzene	Ave	1.663	1.672	0.3000	5.00	5.00	0.5	25.0
1,2-Dichloroethane	Ave	0.2504	0.2487	0.0100	5.00	5.00	-0.7	50.0
Trichloroethene	Ave	0.4315	0.4238	0.1000	4.90	5.00	-1.8	25.0
Methylcyclohexane	Ave	0.6480	0.6673	0.2000	5.10	5.00	3.0	50.0
1,2-Dichloropropane	Ave	0.3559	0.3539	0.1000	5.00	5.00	-0.5	25.0
Bromodichloromethane	Ave	0.4101	0.3952	0.0900	4.80	5.00	-3.6	25.0
cis-1,3-Dichloropropene	Ave	0.4147	0.4358	0.1000	5.30	5.00	5.1	25.0
4-Methyl-2-pentanone	Ave	0.0856	0.0897	0.0100	52.0	50.0	4.9	50.0
Toluene	Ave	1.685	1.815	0.4000	5.40	5.00	7.7	25.0
trans-1,3-Dichloropropene	Ave	0.2896	0.2882	0.0100	5.00	5.00	-0.5	25.0
1,1,2-Trichloroethane	Ave	0.1693	0.1641	0.0400	4.80	5.00	-3.1	25.0
Tetrachloroethene	Ave	0.3933	0.3897	0.1000	5.00	5.00	-0.9	25.0
2-Hexanone	Ave	0.0575	0.0594	0.0100	52.0	50.0	3.3	50.0
Dibromochloromethane	Ave	0.2381	0.2270	0.0500	4.80	5.00	-4.6	25.0
1,2-Dibromoethane	Ave	0.1432	0.1388	0.0100	4.80	5.00	-3.0	25.0
Chlorobenzene	Ave	1.146	1.124	0.4000	4.90	5.00	-2.0	25.0
Ethylbenzene	Ave	1.821	2.064	0.5000	5.70	5.00	13.3	25.0
m,p-Xylene	Ave	0.7461	0.8195	0.2000	5.50	5.00	9.8	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
 SDG No.: 37664
 Lab Sample ID: CCVC 200-114778/10 Calibration Date: 03/09/2017 14:56
 Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38
 Lab File ID: 24259_10.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
o-Xylene	Ave	0.6569	0.7396	0.3000	5.60	5.00	12.6	25.0
Styrene	Ave	1.026	1.141	0.2000	5.60	5.00	11.1	25.0
Bromoform	Ave	0.2545	0.2356	0.0100	4.60	5.00	-7.4	50.0
Isopropylbenzene	Ave	1.760	2.130	0.7000	6.00	5.00	21.0	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1535	0.1468	0.0500	4.80	5.00	-4.4	25.0
1,3-Dichlorobenzene	Ave	1.639	1.637	0.5000	5.00	5.00	-0.1	25.0
1,4-Dichlorobenzene	Ave	1.831	1.739	0.7000	4.70	5.00	-5.0	25.0
1,2-Dichlorobenzene	Ave	1.375	1.398	0.4000	5.10	5.00	1.6	25.0
1,2-Dibromo-3-chloropropane	Ave	0.0490	0.0423	0.0100	4.30	5.00	-13.6	50.0
1,2,4-Trichlorobenzene	Ave	0.6693	0.5858	0.3000	4.40	5.00	-12.5	50.0
1,2,3-Trichlorobenzene	Ave	0.4514	0.3711	0.2000	4.10	5.00	-17.8	50.0
Vinyl chloride-d3	Ave	0.3431	0.3475	0.0100	5.10	5.00	1.3	50.0
Chloroethane-d5	Ave	0.2712	0.2926	0.0100	5.40	5.00	7.9	50.0
1,1-Dichloroethene-d2	Ave	0.7180	0.7317	0.0100	5.10	5.00	1.9	25.0
2-Butanone-d5	Ave	0.0292	0.0276	0.0100	47.0	50.0	-5.8	50.0
Chloroform-d	Ave	0.5986	0.5979	0.0100	5.00	5.00	-0.1	25.0
1,2-Dichloroethane-d4	Ave	0.1950	0.1908	0.0100	4.90	5.00	-2.1	25.0
Benzene-d6	Ave	1.585	1.606	0.0300	5.10	5.00	1.3	25.0
1,2-Dichloropropane-d6	Ave	0.4629	0.4527	0.1000	4.90	5.00	-2.2	25.0
Toluene-d8	Ave	1.460	1.561	0.2000	5.30	5.00	6.9	25.0
trans-1,3-Dichloropropene-d4	Ave	0.2442	0.2364	0.0100	4.80	5.00	-3.2	25.0
2-Hexanone-d5	Ave	0.0235	0.0250	0.0100	53.0	50.0	6.0	50.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1555	0.1477	0.0100	4.70	5.00	-5.0	25.0
1,2-Dichlorobenzene-d4	Ave	0.7971	0.7932	0.0600	5.00	5.00	-0.5	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1

SDG No.: 37664

Lab Sample ID: CCVIS 200-114852/4 Calibration Date: 03/13/2017 11:10

Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54

GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38

Lab File ID: 24294_04.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5352	0.4758	0.0100	4.40	5.00	-11.1	40.0
Chloromethane	Ave	0.5162	0.4548	0.0100	4.40	5.00	-11.9	30.0
Vinyl chloride	Ave	0.4615	0.4132	0.0100	4.50	5.00	-10.5	30.0
Bromomethane	Ave	0.2237	0.2110	0.0100	4.70	5.00	-5.7	30.0
Chloroethane	Ave	0.2893	0.2753	0.0100	4.80	5.00	-4.8	30.0
Trichlorofluoromethane	Ave	0.6812	0.6257	0.0100	4.60	5.00	-8.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3671	0.3733	0.0100	5.10	5.00	1.7	30.0
1,1-Dichloroethene	Ave	0.3335	0.3178	0.0200	4.80	5.00	-4.7	20.0
Acetone	Ave	0.0206	0.0126	0.0100	30.0	50.0	-39.0	40.0
Carbon disulfide	Ave	1.021	0.9525	0.0100	4.70	5.00	-6.7	25.0
Methyl acetate	Ave	0.0534	0.0426	0.0100	4.00	5.00	-20.2	40.0
Methylene Chloride	Ave	0.2716	0.2322	0.0100	4.30	5.00	-14.5	30.0
Methyl tert-butyl ether	Ave	0.2961	0.2352	0.0100	4.00	5.00	-20.6	30.0
trans-1,2-Dichloroethene	Ave	0.3464	0.3123	0.0700	4.50	5.00	-9.9	20.0
1,1-Dichloroethane	Ave	0.6347	0.5542	0.1000	4.40	5.00	-12.7	20.0
cis-1,2-Dichloroethene	Ave	0.3276	0.2885	0.1000	4.40	5.00	-11.9	20.0
2-Butanone	Ave	0.0315	0.0199	0.0100	32.0	50.0	-36.8	40.0
Bromochloromethane	Ave	0.1105	0.0917	0.0200	4.20	5.00	-17.0	20.0
Chloroform	Ave	0.5724	0.4944	0.0400	4.30	5.00	-13.6	20.0
1,1,1-Trichloroethane	Ave	0.7672	0.6968	0.0500	4.50	5.00	-9.2	20.0
Cyclohexane	Ave	0.7563	0.7787	0.1000	5.10	5.00	3.0	25.0
Carbon tetrachloride	Ave	0.6947	0.6235	0.0200	4.50	5.00	-10.3	25.0
Benzene	Ave	1.663	1.557	0.3000	4.70	5.00	-6.4	20.0
1,2-Dichloroethane	Ave	0.2504	0.2133	0.0100	4.30	5.00	-14.8	25.0
Trichloroethene	Ave	0.4315	0.3979	0.1000	4.60	5.00	-7.8	20.0
Methylcyclohexane	Ave	0.6480	0.7000	0.2000	5.40	5.00	8.0	25.0
1,2-Dichloropropane	Ave	0.3559	0.3215	0.1000	4.50	5.00	-9.7	20.0
Bromodichloromethane	Ave	0.4101	0.3511	0.0900	4.30	5.00	-14.4	20.0
cis-1,3-Dichloropropene	Ave	0.4147	0.3892	0.1000	4.70	5.00	-6.1	20.0
4-Methyl-2-pentanone	Ave	0.0856	0.0685	0.0100	40.0	50.0	-20.0	30.0
Toluene	Ave	1.685	1.660	0.4000	4.90	5.00	-1.5	20.0
trans-1,3-Dichloropropene	Ave	0.2896	0.2537	0.0100	4.40	5.00	-12.4	20.0
1,1,2-Trichloroethane	Ave	0.1693	0.1455	0.0400	4.30	5.00	-14.0	20.0
Tetrachloroethene	Ave	0.3933	0.3853	0.1000	4.90	5.00	-2.0	20.0
2-Hexanone	Ave	0.0575	0.0432	0.0100	37.0	50.0	-25.0	40.0
Dibromochloromethane	Ave	0.2381	0.1995	0.0500	4.20	5.00	-16.2	20.0
1,2-Dibromoethane	Ave	0.1432	0.1174	0.0100	4.10	5.00	-18.0	20.0
Chlorobenzene	Ave	1.146	1.009	0.4000	4.40	5.00	-12.0	20.0
Ethylbenzene	Ave	1.821	1.898	0.5000	5.20	5.00	4.2	20.0
m,p-Xylene	Ave	0.7461	0.7602	0.2000	5.10	5.00	1.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
 SDG No.: 37664
 Lab Sample ID: CCVIS 200-114852/4 Calibration Date: 03/13/2017 11:10
 Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38
 Lab File ID: 24294_04.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
o-Xylene	Ave	0.6569	0.6631	0.3000	5.00	5.00	1.0	20.0
Styrene	Ave	1.026	1.010	0.2000	4.90	5.00	-1.6	20.0
Bromoform	Ave	0.2545	0.2036	0.0100	4.00	5.00	-20.0	30.0
Isopropylbenzene	Ave	1.760	1.963	0.7000	5.60	5.00	11.6	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1535	0.1218	0.0500	4.00	5.00	-20.7	25.0
1,3-Dichlorobenzene	Ave	1.639	1.517	0.5000	4.60	5.00	-7.5	20.0
1,4-Dichlorobenzene	Ave	1.831	1.641	0.7000	4.50	5.00	-10.4	20.0
1,2-Dichlorobenzene	Ave	1.375	1.273	0.4000	4.60	5.00	-7.4	20.0
1,2-Dibromo-3-chloropropane	Ave	0.0490	0.0316	0.0100	3.20	5.00	-35.6	40.0
1,2,4-Trichlorobenzene	Ave	0.6693	0.5574	0.3000	4.20	5.00	-16.7	30.0
1,2,3-Trichlorobenzene	Ave	0.4514	0.3071	0.2000	3.40	5.00	-32.0	40.0
Vinyl chloride-d3	Ave	0.3431	0.3036	0.0100	4.40	5.00	-11.5	30.0
Chloroethane-d5	Ave	0.2712	0.2632	0.0100	4.80	5.00	-3.0	30.0
1,1-Dichloroethene-d2	Ave	0.7180	0.6856	0.0100	4.80	5.00	-4.5	25.0
2-Butanone-d5	Ave	0.0292	0.0215	0.0100	37.0	50.0	-26.5	40.0
Chloroform-d	Ave	0.5986	0.5113	0.0100	4.30	5.00	-14.6	20.0
1,2-Dichloroethane-d4	Ave	0.1950	0.1652	0.0100	4.20	5.00	-15.2	25.0
Benzene-d6	Ave	1.585	1.478	0.0300	4.70	5.00	-6.7	20.0
1,2-Dichloropropane-d6	Ave	0.4629	0.4211	0.1000	4.50	5.00	-9.0	20.0
Toluene-d8	Ave	1.460	1.421	0.2000	4.90	5.00	-2.7	20.0
trans-1,3-Dichloropropene-d4	Ave	0.2442	0.2135	0.0100	4.40	5.00	-12.5	25.0
2-Hexanone-d5	Ave	0.0235	0.0188	0.0100	40.0	50.0	-20.2	40.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1555	0.1238	0.0100	4.00	5.00	-20.4	25.0
1,2-Dichlorobenzene-d4	Ave	0.7971	0.7325	0.0600	4.60	5.00	-8.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1

SDG No.: 37664

Lab Sample ID: CCVC 200-114852/15 Calibration Date: 03/13/2017 16:15

Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54

GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38

Lab File ID: 24294_15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5352	0.5330	0.0100	5.00	5.00	-0.4	50.0
Chloromethane	Ave	0.5162	0.5134	0.0100	5.00	5.00	-0.5	50.0
Vinyl chloride	Ave	0.4615	0.4678	0.0100	5.10	5.00	1.4	50.0
Bromomethane	Ave	0.2237	0.1991	0.0100	4.40	5.00	-11.0	50.0
Chloroethane	Ave	0.2893	0.3149	0.0100	5.40	5.00	8.8	50.0
Trichlorofluoromethane	Ave	0.6812	0.7027	0.0100	5.20	5.00	3.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3671	0.4076	0.0100	5.50	5.00	11.0	50.0
1,1-Dichloroethene	Ave	0.3335	0.3613	0.0200	5.40	5.00	8.3	25.0
Acetone	Ave	0.0206	0.0161	0.0100	39.0	50.0	-22.1	50.0
Carbon disulfide	Ave	1.021	1.017	0.0100	5.00	5.00	-0.4	25.0
Methyl acetate	Ave	0.0534	0.0464	0.0100	4.30	5.00	-13.1	50.0
Methylene Chloride	Ave	0.2716	0.2683	0.0100	4.90	5.00	-1.2	50.0
Methyl tert-butyl ether	Ave	0.2961	0.2694	0.0100	4.50	5.00	-9.0	50.0
trans-1,2-Dichloroethene	Ave	0.3464	0.3600	0.0700	5.20	5.00	3.9	25.0
1,1-Dichloroethane	Ave	0.6347	0.6356	0.1000	5.00	5.00	0.1	25.0
cis-1,2-Dichloroethene	Ave	0.3276	0.3296	0.1000	5.00	5.00	0.6	25.0
2-Butanone	Ave	0.0315	0.0267	0.0100	42.0	50.0	-15.1	50.0
Bromochloromethane	Ave	0.1105	0.1047	0.0200	4.70	5.00	-5.2	25.0
Chloroform	Ave	0.5724	0.5743	0.0400	5.00	5.00	0.3	25.0
1,1,1-Trichloroethane	Ave	0.7672	0.7860	0.0500	5.10	5.00	2.5	25.0
Cyclohexane	Ave	0.7563	0.8515	0.1000	5.60	5.00	12.6	50.0
Carbon tetrachloride	Ave	0.6947	0.6998	0.0200	5.00	5.00	0.7	50.0
Benzene	Ave	1.663	1.743	0.3000	5.20	5.00	4.8	25.0
1,2-Dichloroethane	Ave	0.2504	0.2423	0.0100	4.80	5.00	-3.3	50.0
Trichloroethene	Ave	0.4315	0.4440	0.1000	5.10	5.00	2.9	25.0
Methylcyclohexane	Ave	0.6480	0.7370	0.2000	5.70	5.00	13.7	50.0
1,2-Dichloropropane	Ave	0.3559	0.3589	0.1000	5.00	5.00	0.8	25.0
Bromodichloromethane	Ave	0.4101	0.3948	0.0900	4.80	5.00	-3.7	25.0
cis-1,3-Dichloropropene	Ave	0.4147	0.4253	0.1000	5.10	5.00	2.6	25.0
4-Methyl-2-pentanone	Ave	0.0856	0.0797	0.0100	47.0	50.0	-6.9	50.0
Toluene	Ave	1.685	1.860	0.4000	5.50	5.00	10.4	25.0
trans-1,3-Dichloropropene	Ave	0.2896	0.2845	0.0100	4.90	5.00	-1.7	25.0
1,1,2-Trichloroethane	Ave	0.1693	0.1626	0.0400	4.80	5.00	-3.9	25.0
Tetrachloroethene	Ave	0.3933	0.4128	0.1000	5.20	5.00	5.0	25.0
2-Hexanone	Ave	0.0575	0.0521	0.0100	45.0	50.0	-9.4	50.0
Dibromochloromethane	Ave	0.2381	0.2236	0.0500	4.70	5.00	-6.1	25.0
1,2-Dibromoethane	Ave	0.1432	0.1344	0.0100	4.70	5.00	-6.1	25.0
Chlorobenzene	Ave	1.146	1.130	0.4000	4.90	5.00	-1.4	25.0
Ethylbenzene	Ave	1.821	2.103	0.5000	5.80	5.00	15.5	25.0
m,p-Xylene	Ave	0.7461	0.8403	0.2000	5.60	5.00	12.6	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
 SDG No.: 37664
 Lab Sample ID: CCVC 200-114852/15 Calibration Date: 03/13/2017 16:15
 Instrument ID: CHD.i Calib Start Date: 03/08/2017 10:54
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 03/08/2017 12:38
 Lab File ID: 24294_15.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
o-Xylene	Ave	0.6569	0.7422	0.3000	5.60	5.00	13.0	25.0
Styrene	Ave	1.026	1.141	0.2000	5.60	5.00	11.2	25.0
Bromoform	Ave	0.2545	0.2213	0.0100	4.30	5.00	-13.1	50.0
Isopropylbenzene	Ave	1.760	2.182	0.7000	6.20	5.00	24.0	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1535	0.1377	0.0500	4.50	5.00	-10.3	25.0
1,3-Dichlorobenzene	Ave	1.639	1.632	0.5000	5.00	5.00	-0.4	25.0
1,4-Dichlorobenzene	Ave	1.831	1.761	0.7000	4.80	5.00	-3.8	25.0
1,2-Dichlorobenzene	Ave	1.375	1.392	0.4000	5.10	5.00	1.2	25.0
1,2-Dibromo-3-chloropropane	Ave	0.0490	0.0373	0.0100	3.80	5.00	-24.0	50.0
1,2,4-Trichlorobenzene	Ave	0.6693	0.5980	0.3000	4.50	5.00	-10.7	50.0
1,2,3-Trichlorobenzene	Ave	0.4514	0.3636	0.2000	4.00	5.00	-19.4	50.0
Vinyl chloride-d3	Ave	0.3431	0.3516	0.0100	5.10	5.00	2.5	50.0
Chloroethane-d5	Ave	0.2712	0.2886	0.0100	5.30	5.00	6.4	50.0
1,1-Dichloroethene-d2	Ave	0.7180	0.7742	0.0100	5.40	5.00	7.8	25.0
2-Butanone-d5	Ave	0.0292	0.0238	0.0100	41.0	50.0	-18.7	50.0
Chloroform-d	Ave	0.5986	0.5886	0.0100	4.90	5.00	-1.7	25.0
1,2-Dichloroethane-d4	Ave	0.1950	0.1867	0.0100	4.80	5.00	-4.2	25.0
Benzene-d6	Ave	1.585	1.671	0.0300	5.30	5.00	5.5	25.0
1,2-Dichloropropane-d6	Ave	0.4629	0.4656	0.1000	5.00	5.00	0.6	25.0
Toluene-d8	Ave	1.460	1.597	0.2000	5.50	5.00	9.4	25.0
trans-1,3-Dichloropropene-d4	Ave	0.2442	0.2280	0.0100	4.70	5.00	-6.6	25.0
2-Hexanone-d5	Ave	0.0235	0.0210	0.0100	45.0	50.0	-10.9	50.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1555	0.1409	0.0100	4.50	5.00	-9.4	25.0
1,2-Dichlorobenzene-d4	Ave	0.7971	0.7875	0.0600	4.90	5.00	-1.2	25.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-114778/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_04.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 11:43</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	2.3	J	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-114778/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_04.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 11:43</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.17	J	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.36	J	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	105		40-130
19199-91-8	Chloroethane-d5	113		65-130
22280-73-5	1,1-Dichloroethene-d2	80		60-125
24313-50-6	2-Butanone-d5	88		40-130
865-49-6	Chloroform-d	99		70-125
17060-07-0	1,2-Dichloroethane-d4	101		70-130
1076-43-3	Benzene-d6	106		70-125
93952-08-0	1,2-Dichloropropane-d6	82		60-140
2037-26-5	Toluene-d8	105		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	94		55-130
4840-82-8	2-Hexanone-d5	95		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	89		65-120
2199-69-1	1,2-Dichlorobenzene-d4	115		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-114778/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>24259_04.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/09/2017 11:43</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114778</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
SDG No.: 37664
Client Sample ID: _____ Lab Sample ID: MB 200-114778/4
Matrix: Water Lab File ID: 24259_04.D
Analysis Method: SOM02.2/VOA_Tr Date Collected: _____
Sample wt/vol: 25 (mL) Date Analyzed: 03/09/2017 11:43
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.2 (mm)
% Moisture: _____ Level: (low/med) Trace
Analysis Batch No.: 114778 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-114852/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 11:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	8.5		5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0		5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	1.0	J	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	2.8	J	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-114852/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 11:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.20	J	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.36	J	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	106		40-130
19199-91-8	Chloroethane-d5	110		65-130
22280-73-5	1,1-Dichloroethene-d2	84		60-125
24313-50-6	2-Butanone-d5	79		40-130
865-49-6	Chloroform-d	96		70-125
17060-07-0	1,2-Dichloroethane-d4	99		70-130
1076-43-3	Benzene-d6	107		70-125
93952-08-0	1,2-Dichloropropane-d6	81		60-140
2037-26-5	Toluene-d8	107		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	93		55-130
4840-82-8	2-Hexanone-d5	85		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	85		65-120
2199-69-1	1,2-Dichlorobenzene-d4	118		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-37664-1</u>
SDG No.: <u>37664</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-114852/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>24294_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>03/13/2017 11:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>114852</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Burlington Job No.: 200-37664-1
SDG No.: 37664
Client Sample ID: _____ Lab Sample ID: MB 200-114852/5
Matrix: Water Lab File ID: 24294_05.D
Analysis Method: SOM02.2/VOA_Tr Date Collected: _____
Sample wt/vol: 25 (mL) Date Analyzed: 03/13/2017 11:35
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.2 (mm)
% Moisture: _____ Level: (low/med) Trace
Analysis Batch No.: 114852 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-37664-1SDG No.: 37664Instrument ID: CHD.iStart Date: 03/08/2017 08:13Analysis Batch Number: 114709End Date: 03/08/2017 13:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-114709/1		03/08/2017 08:13	1	24228_01.D	DB-624 0.2 (mm)
ZZZZZ		03/08/2017 09:12	1		DB-624 0.2 (mm)
ZZZZZ		03/08/2017 09:37	1		DB-624 0.2 (mm)
ZZZZZ		03/08/2017 10:03	1		DB-624 0.2 (mm)
ZZZZZ		03/08/2017 10:29	1		DB-624 0.2 (mm)
IC 200-114709/6		03/08/2017 10:54	1	24228_06.D	DB-624 0.2 (mm)
IC 200-114709/7		03/08/2017 11:20	1	24228_07.D	DB-624 0.2 (mm)
ICIS 200-114709/8		03/08/2017 11:46	1	24228_08.D	DB-624 0.2 (mm)
IC 200-114709/9		03/08/2017 12:12	1	24228_09.D	DB-624 0.2 (mm)
IC 200-114709/10		03/08/2017 12:38	1	24228_10.D	DB-624 0.2 (mm)
ZZZZZ		03/08/2017 13:04	1		DB-624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-37664-1SDG No.: 37664Instrument ID: CHD.iStart Date: 03/09/2017 10:26Analysis Batch Number: 114778End Date: 03/09/2017 14:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-114778/1		03/09/2017 10:26	1	24259_01.D	DB-624 0.2 (mm)
ZZZZZ		03/09/2017 10:52	1		DB-624 0.2 (mm)
CCVIS 200-114778/3		03/09/2017 11:18	1	24259_03.D	DB-624 0.2 (mm)
MB 200-114778/4		03/09/2017 11:43	1	24259_04.D	DB-624 0.2 (mm)
200-37664-1		03/09/2017 12:47	1	24259_05.D	DB-624 0.2 (mm)
ZZZZZ		03/09/2017 13:13	1		DB-624 0.2 (mm)
200-37664-2		03/09/2017 13:39	1	24259_07.D	DB-624 0.2 (mm)
ZZZZZ		03/09/2017 14:04	1		DB-624 0.2 (mm)
CCVC 200-114778/9		03/09/2017 14:30	1	24259_09.D	DB-624 0.2 (mm)
CCVC 200-114778/10		03/09/2017 14:56	1	24259_10.D	DB-624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-37664-1SDG No.: 37664Instrument ID: CHD.iStart Date: 03/13/2017 08:52Analysis Batch Number: 114852End Date: 03/13/2017 16:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-114852/1		03/13/2017 08:52	1	24294_01.D	DB-624 0.2 (mm)
CCVIS 200-114852/2		03/13/2017 09:23	1		DB-624 0.2 (mm)
ZZZZZ		03/13/2017 09:48	1		DB-624 0.2 (mm)
CCVIS 200-114852/4		03/13/2017 11:10	1	24294_04.D	DB-624 0.2 (mm)
MB 200-114852/5		03/13/2017 11:35	1	24294_05.D	DB-624 0.2 (mm)
ZZZZZ		03/13/2017 12:23	400		DB-624 0.2 (mm)
ZZZZZ		03/13/2017 12:49	1		DB-624 0.2 (mm)
ZZZZZ		03/13/2017 13:14	300		DB-624 0.2 (mm)
ZZZZZ		03/13/2017 13:40	1		DB-624 0.2 (mm)
200-37664-2 DL		03/13/2017 14:06	200	24294_10.D	DB-624 0.2 (mm)
ZZZZZ		03/13/2017 14:32	1		DB-624 0.2 (mm)
200-37664-3		03/13/2017 14:58	1	24294_12.D	DB-624 0.2 (mm)
200-37664-4		03/13/2017 15:24	1	24294_13.D	DB-624 0.2 (mm)
CCVC 200-114852/14		03/13/2017 15:49	1		DB-624 0.2 (mm)
CCVC 200-114852/15		03/13/2017 16:15	1	24294_15.D	DB-624 0.2 (mm)

Shipping and Receiving Documents

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact Argonne National Lab 9700 S Cass Ave Lemont/IL/60439 (630) 252-7969 Phone (630) 252-6747 FAX Project Name: Quarterly Sampling Site: Agra, KS P.O.# 8A727-25-167		Project Manager: Lorraine LaFreniere Tel/Fax: (630) 252-7969 Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Travis Kamler Lab Contact: Kathryn Kelly Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ Volatile Organic Compounds _____		Date: March 7, 2017 Carrier: FedEx# 778596632142 COC No: 1 of 1 COCs For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sampler: _____		AG37171710	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
1 AGKMW3-W-39368	03/07/17	9:15	G	W	2	2 X 40mL for VOC			
2 AGGW2-W-39722	03/06/17	18:20	G	W	2	2 X 40mL for VOC			
3 AGQCTB-W-39729	03/07/17	16:00	G	W	2	2 X 40mL for VOC			
4					0				
5					0				
6					0				
7					0				
8					0				
9					0				
10					0				
11					0				
12					0				
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____ Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) 200-37664 Chain of Custody									
Custody Seals Intact: ☐ Yes ☐ No Relinquished by: Travis Kamler Relinquished by: _____ Relinquished by: _____		Custody Seal No.: _____ Company: TCW Company: _____ Company: _____		Received by: _____ Date/Time: 3/7/17 17:10 Received by: _____ Date/Time: _____ Received in laboratory by: _____ Date/Time: 03/08/17 10:15		Cooler Temp. (°C): _____ Obs'd: _____ Cor'd: _____ Therm ID No.: _____			

Page 1 of 1

ORIGIN ID:ENLA (402) 416-7255
TRAVIS KAMLER
ARGONNE NATIONAL LAB
9700 S CASS AVE

LEMONT, IL 60439
UNITED STATES US

SHIP DATE: 07MAR17
ACTWGT: 15.00 LB
CAD: 104734835/INET3850
DIMS: 13x9x10 IN

BILL SENDER

TO KATHRYN KELLY
TEST AMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF: BA727-25-167

INV:

PO: AGRA WATERS

DEPT:

FedEx
Express

JT7111/021/461ur

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 7785 9653 2142
0201

NA BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Argonne National Laboratory

Job Number: 200-37664-1

SDG Number: 37664

Login Number: 37664

List Number: 1

Creator: Johnson, Eleanor E

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Supplement 5:

GreenField Report for Monthly OMM Event on April 3, 2017

Post Office Box 677
Salina, Kansas 67402-0677
Phone (785) 822-0900
Fax (785) 826-9508

CONTRACTORS, INC.

ENVIRONMENTAL PROFESSIONALS

April 4, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Fourteenth Monthly OMM Report of the Fourth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the April 3, 2017 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 59.4 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 17.0 psi and cumulative airflow rate of 10.0 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 3.51 to greater than 10 psi. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

A handwritten signature in cursive script that reads "Melisa D. McElwee".

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

14DM *✓*

Facility Name: Former Agra CCC/USDA
 Facility Address: 671 Railroad Ave
Agra, Kansas
 Consultant: GreenField Contractors, Inc.
 Consultant Project Mgr: Tim Pace
 Reporting Period: 2-23-17 thru 4-3-17
 Days In Reporting Period: _____
 Field Sheet Revision Date: _____

PROJ. # 1491
 Inspector: Tim Dorek
 Inspection Date: 4-3-17
 Inspection Time: 11:45
 Electrical Meter Reading: 63919

VAPOR EXTRACTION/INJECTION INFORMATION				
Design Parameters for Vapor Extraction System:	250	SCFM	40	"H2O
Reporting Period Parameters:	150	SCFM	59.4	"H2O
Blower Operation:	X	Continual		Cycling
Hour Meter Reading:	57133.6	Previous	58030.8	Present
Design Parameters for Air Sparge System:	25	SCFM	12	PSI
Reporting Period Parameters:	10.0	SCFM	17.0	PSI
Blower Operation:	X	Continual		Cycling
Hour Meter Reading:	49080.5	Previous	49977.7	Present

GROUNDWATER ELEVATIONS									
Well I.D. No.	KDHE Site I.D.	Temp. Tag No.	TOC Elevation	Depth to Water (TOC)	Depth to Product (TOC)	Water Level Elevation	Free Phase Prod. Elev.	Free Phase Prod. Thick.	D.O.
GW-1		472202		42.12					
GW-3		472926		42.08					
GW-4		472718		42.48					

SYSTEM DOWN TIME SUMMARY		
DATES		Explanation for Down Time
From	To	(Indicate Corrective Measures Taken)
—	—	

REMEDIATION SYSTEM MAINTENANCE RECORD			
Date of Changes	Description of Work Performed		Performed by
4-3-17	K.O. Tank	Drained	T. Dorek
	Filters SVE / A.S.	Checked / Replaced	
	A/SP Blower Grease	Checked / Added	
	Cleared SVE lines	Yes / No	
	Cleaned Flowmeters	Yes / No	
	Used weedeater around trailer	Yes / No	
	Swept trailer	Yes / No	
	Sensaphone Surge Protector	Good / Bad	
	Adjusted Air dilution:	From: closed To: closed	
	Check Quarterly	Vane Width:	
Becker 3.60	AIR Sparge vane measurment minimum 26 MM		
Need			
SVE Filter	Solberg		
Air Sparge Filter			

A.S. -41 broken At Flowmeter Threads off

Former Agra CCC/USDA

T. Dorel 4-3-17

Proj. # 1491

Operating Status: Arrival On / Off Departure On / Off

SVE UNIT	Pre KO Tank Vacuum ("H2O)	Pre/Post Filter Vacuum ("H2O)	Dilution Air Flowrate (cfm)	Cumulative Flowrate (cfm) Sum of SVE Wells	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
	59.4	- 167.8	closed	150	20.9	1.0	1.0

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold ("H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead ("H2O)
SVE-1	10.5	50	20.9	1.0	1.0	5.6
SVE-2	10.5	50	20.9	1.0	1.0	5.9
SVE-3	16.2	50	20.9	1.0	1.0	8.9
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

Operating Status: Arrival On / Off Departure On / Off

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (% Open)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
	17.0	10.0	closed	111°	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	3.74	3.51	4.5
AS-2	7.44	7.04	4.5
AS-3	10+	10+	1.0
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Minus	Wellhead Vacuum (In./Ft. H2O)	Minus	Depth to Top of Screen	Equals	Length of Screen Exposed (Ft.)
SVE-1	GW-1 + GW-4 = +2 = 42.30	-	.47	-	20	=	21.83
SVE-2		-	.49	-	20	=	21.81
SVE-3		-	.74	-	20	=	21.56
SVE-4		-		-	20	=	
SVE-2		-		-	20	=	

NOTE: 1 PSI = 27.7 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By T. Deuel

Date Measurements Collected 4-3-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MW- and AS Well	Adjusted SWL	Depth to Top of Sparge Screen (Ft)	Minus	Adjusted SWL	Times	Calculation to Determine Amt. PSI Needed	Equals	Wellhead Pressure Needed to Overcome Water Column
AS-1		-	=		51.37	-	42.30	X	0.434	=	3.34
AS-2		-	=		58	-		X	0.434	=	6.81
AS-3		-	=		53.9	-		X	0.434	=	5.03
AS-4		-	=		58	-		X	0.434	=	6.81
AS-5		-	=		56.27	-		X	0.434	=	6.06

Measurements Collected By T. DoranDate Measurements Collected 4-3-17

Comments

Supplement 6:

GreenField Report for Quarterly OMM Event on April 27, 2017

June 13, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Seventh Quarterly OMM Report of the Fourth OMM Contract**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of the quarterly OMM report of the referenced site. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

A handwritten signature in cursive script that reads "Melisa D. McElwee".

Melisa McElwee
GreenField Contractors, Inc.

Fourth Quarterly Report of the Third Scope of OMM Services

**Former Agra Commodity Credit Corporation, United States
Department of Agriculture Grain Storage Facility
Agra, Kansas**

KDHE Project Code: C6-074-00002
Legal Description: SW ¼, SE ¼, NW ¼, S27, T3S, R16W
Phillips County, Kansas

Prepared for:
Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

Submitted by:
GreenField Contractors, Inc.
Tim Pace, Remedial Director
P.O. Box 677
Salina, Kansas 67401-0677
(785)-822-0900

June 13, 2017

GreenField Contractors, Inc.

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1.0 OPERATION, MAINTENANCE AND MONITORING

This quarterly OMM report for the USDA/CCC site located in Agra, Kansas, documents site activities from the seventh quarter of operation under the fourth scope of OMM services.

1.1 Operation and Maintenance

Between January 30 and April 27, 2017, two monthly OMM event and one quarterly OMM event was conducted at the Agra CCC/USDA site. The SVE and AS systems operated throughout the quarter. Vapor samples were collected from each individual SVE well line at the SVE manifold and one from the SVE effluent stack at the quarterly OMM event for laboratory analysis of carbon tetrachloride, chloroform, and 1,2 DCA. Groundwater samples were collected from onsite wells GW-1, 3, and 4 at the quarterly OMM event. General maintenance was conducted on the SVE and ASP systems as well.

Soil Vapor Extraction System

The SVE system operates SVE wells SVE-1 & 2 continuously while SVE-3, 4, & 5 are individually operated on alternating intervals. For consistency, SVE operating parameters are collected when SVE-1, 2, & 3 are operating. The SVE system operated at an average pre-filter vacuum of 59.8 inches of water and an average manifold flow rate of 150 cubic feet per minute (cfm) this quarter with the air dilution valve closed.

Monitoring activities on the SVE vapors included measuring total volatile organic compounds (VOC's), carbon dioxide, and oxygen concentrations on the SVE manifold and on each individual well line. Oxygen concentrations maintained 20.9 percent of extracted air. Carbon dioxide levels were at non-detectable levels. The vapor samples were collected from the SVE Effluent and the individual well lines at the SVE manifold at the quarterly OMM event. Vapor samples collected at the SVE manifold were analyzed via EPA Method TO-15 for VOC's carbon tetrachloride, chloroform, and 1,2 DCA. Carbon tetrachloride was detected in all of the six air samples collected ranging in concentration from 3.6 to 294 ug/m³. Chloroform was detected in the SVE-3 and SVE-5 air samples at 1.6 ug/m³ and 1.7 ug/m³, respectively. 1,2 DCA was not detected above laboratory detection limits in any of the air samples analyzed.

Air Sparge System

The AS system operated at an average pressure of 18.3 psi and an average cumulative airflow rate of 10.8 scfm this quarter. Wellhead pressures ranged from 3.33 psi to greater than 10 psi. Individual well line airflow rates ranged from 1.0 to 5.4 scfm. The AS-4 well line flowmeter was noted to be broken. The well line was deactivated until a replacement flowmeter can be installed.

1.2 Monitoring

Monitoring Wells

Groundwater samples were collected at the quarterly OMM event. The samples were analyzed for chloroform, carbon tetrachloride, and 1,2 DCA. Carbon tetrachloride was detected in the three groundwater samples ranging in concentration from 48.9 to 1,100 ug/L. Chloroform was detected in the GW-1 groundwater sample at 5.6 ug/L and the GW-4 sample at 2.9 ug/L. 1,2 DCA was not detected in the three groundwater samples analyzed. However, minimum detection levels were elevated in the GW-3 and GW-4 samples to 20 ug/L and 2.5 ug/L, respectively.

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA
Facility Address: 671 Railroad Ave. Agra, KS
Consultant: GreenField Contractors Inc.
Reporting Period: 1/30/2017 through 4/27/2017
Days in Reporting Period 87

Project #: 1491
Consultant Project Mgr.: Tim Pace
Number of Days SVE System Operating: 86
Number of Days ASP System Operating: 86

Section 1 - Summary of Remedial Action

Groundwater:

Pump & Treat: **Total Fluids Pumps (Electric)** **Dual Phase Pumps (Electric)**
 Total Fluids Pumps (Pneumatic) **Dual Phase Pumps (Pneumatic)**
 With Off-gas Treatment **W/O Off-gas Treatment**
Yes **Air Sparge System:**
Recovery Trench(es): **NO** **L** **ft.** **W** **ft.** **D** **ft.**
No. of GW Recovery Wells: **No. of Sparge Wel** **Yes**
Startup Dates: **GW Pump & Treat** **Sparge** **5** **Off-gas Treatment**

ISOC System: **No. of ISOC Wells:**
 Startup Dates: **ISOC**

Water Treatment System: **Carbon** **Air Stripper Tower** **Tray Stripper**
 Other (Specify):
Public Well Treatment System: **Carbon** **Air Stripper Tower** **Tray Stripper**
 Other (Specify):
Disposition of Treated Water: **Sanitary Sewer** **NPDES** **Reinjection**
 Other (Specify):

Soil:

YES **Vapor Extraction System:** **With Off-gas Treatment** **W/O Off-gas Treatment:**
No. of SVE Wells: **5** **Startup Dates:** **VES** **Off-gas Treatment**

Comments:

SVE and ASP wells are installed in large diameter borings(LDBs)

Quarterly Monitoring Report					
Facility Name:	<u>Former Agra CCC/USDA</u>		Project #:	<u>1491</u>	
Continued Section 1 - Summary of Remedial Action					
Major Equipment on Site:					
Skimmer Pumps:	Brand _____	Type _____	Capacity _____	Date _____	Warr. Exp.
Groundwater Pumps:	Brand _____	Type _____	Capacity _____	Date _____	
Pre-Treatment/Filter:	Brand _____	Type _____		Date _____	
Air Stripper:	Brand _____	Type _____	Capacity _____	Date _____	
Enclosure Type:	Fence _____	Building _____	Skid _____	Other _____	Trailer
Transfer Pumps:	Brand _____	Type _____	Capacity _____	Date _____	
Air Compressor:	Brand _____	Type _____		Date _____	
SVE Vacuum Pump:	Brand <u>Republic</u>	Type <u>HRB-900E</u>	Capacity _____	Date _____	
Sparge Blower Pump:	Brand <u>Reitschle</u>	Type <u>DLT-40</u>	Capacity _____	Date _____	
Oil/H2O Separator:	Brand _____	Type _____	Capacity _____	Date _____	
Knockout Tank:	Brand <u>Ametek</u>	Type <u>M5350B</u>	Capacity <u>350 cfm</u>	Date _____	
Vapor Phase Carbon:	Brand _____	Type _____		Date _____	
Water Phase Carbon:	Brand _____	Type _____		Date _____	
PWS Treatment Equip.	Brand _____	Type _____	Capacity _____	Date _____	
Telemetry:	Model <u>Sensaphone 2000</u>	Type _____		Date _____	
Off-gas Treatment Equip.:	Brand _____	Type _____	Capacity _____	Date _____	
ISOC Oxygen Injection System:	Brand _____	Type _____	Capacity _____	Date _____	

Section 2 - Groundwater/Vapor Extraction/Injection Information					
Facility Name:	<u>Former Agra CCC/USDA</u>		Project #:	<u>1491</u>	
Design Air Flow Rate for Vapor Extraction System: <u> -- </u> CFM					
Actual Ave. Flow Rate During 1st. Month of Operation: <u>255.50</u> CFM					
Actual Average System Flow Rate Since Start-up: <u>192.42</u> CFM					
Reporting Period Average Flow Rate: <u>150.00</u> CFM					
Blower Operation:		<u> X </u>	Continual	<u> </u>	Cycling
Design Air Flow Rate for Air Sparge System: <u>20.00</u> CFM					
Actual Ave. Flow Rate During 1st. Month of Operation: <u>19.10</u> CFM					
Actual Average System Flow Rate Since Start-up: <u>13.66</u> CFM					
Reporting Period Average Flow Rate: <u>10.83</u> CFM					
Blower Operation:		<u> X </u>	Continual	<u> </u>	Cycling

Quarterly Monitoring Report		
Facility Name:	<u>Former Agra CCC/USDA</u>	Project #: <u>1491</u>
Section 3 - System Down Time Summary (Current Reporting Period Only)		
Dates		Explanation for Down Time
From	To	Indicate Corrective Measures Taken

Section 4 - History of Major Maintenance/Repair Activities Since Start-up		
Date of Maintenance/Repair	Description of Work Performed	Performed by:
12/23/09	ASP vanes replaced.	GeoCore Inc.
1/13/10	SVE & ASP hour meters replaced.	GeoCore Inc.
10/6/11	ASP vanes replaced.	GreenField
1/26/11	ASP vanes replaced.	GeoCore Inc.
1/16/13	ASP vanes replaced.	TCW
8/1/13	ASP vanes replaced.	GeoCore Inc.
1/31/14	ASP vanes replaced.	GeoCore Inc.
8/1/14	ASP vanes & filters replaced.	GeoCore Inc.
1/23/15	ASP vanes & filters replaced.	GeoCore Inc.
7/28/15	ASP vanes & filters replaced.	GeoCore Inc.
12/1/15	ASP vanes & filters replaced.	GeoCore Inc.
10/28/16	ASP vanes & filters replaced.	GeoCore Inc.

Facility Name:		Former Agra CCC/USDA		Project #:		1491	
Section 6 - Well Inventory (Onsite and Offsite Wells)							
Wells				Wells			
Well No.	Date Install	Dia. (in.)	Screened Interval (ft)	Well No.	Date Install	Dia. (in.)	Screened Interval (ft)
GW-1				SVE-1		4	20-40
GW-3				SVE-2		4	20-40
GW-4				SVE-3		4	20-40
				SVE-4		4	20-40
				SVE-5		4	20-40
				AS-1		2	51.37-53.37
				AS-2		2	58-60
				AS-3		2	53.9-55.9
				AS-4		2	58-60
				AS-5		2	56.27-58.27

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 5/29/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.02		NA	NA
GW-3		--		NA	NA
GW-4		39.93		NA	NA

Date: 8/28/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.26		NA	NA
GW-3		39.16		NA	NA
GW-4		39.85		NA	NA

Date: 11/27/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		38.22		NA	NA
GW-3		38.25		NA	NA
GW-4		39.36		NA	NA

Date: 2/25/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.40		NA	NA
GW-3		37.94		NA	NA
GW-4		39.44		NA	NA

Date: 5/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.97		NA	NA
GW-3		38.36		NA	NA
GW-4		39.51		NA	NA

Date: 8/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.73		NA	NA
GW-3		37.73		NA	NA
GW-4		38.96		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 11/19/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.78		NA	NA
GW-3		37.72		NA	NA
GW-4		39.12		NA	NA

Date: 3/1/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.30		NA	NA
GW-3		37.92		NA	NA
GW-4		38.05		NA	NA

Date: 5/25/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		NA		NA	NA
GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* SWL'S not collected. Wellheads under water.

Date: 10/27/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		NA		NA	NA
*GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* No SWL'S. Water level indicator probe too big for 1" wells.

Date: 1/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

* No SWL'S. Water level indicator faulty.

Date: 4/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 7/31/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.40		NA	NA
*GW-3		38.40		NA	NA
*GW-4		39.30		NA	NA

Date: 10/30/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.92		NA	NA
*GW-3		38.87		NA	NA
*GW-4		39.91		NA	NA

Date: 2/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.12		NA	NA
*GW-3		39.04		NA	NA
*GW-4		40.28		NA	NA

Date: 4/26/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.41		NA	NA
*GW-3		39.26		NA	NA
*GW-4		40.41		NA	NA

Date: 8/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.93		NA	NA
*GW-3		39.79		NA	NA
*GW-4		40.20		NA	NA

Date: 10/29/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.28		NA	NA
*GW-3		40.20		NA	NA
*GW-4		40.48		NA	NA

Date: 1/31/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.55		NA	NA
*GW-3		40.47		NA	NA
*GW-4		40.91		NA	NA

Date: 4/30/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.02		NA	NA
*GW-3		40.89		NA	NA
*GW-4		41.28		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 8/1/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.27		NA	NA
*GW-3		41.21		NA	NA
*GW-4		41.59		NA	NA

Date: 10/29/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.57		NA	NA
*GW-3		41.51		NA	NA
*GW-4		41.84		NA	NA

Date: 1/23/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.62		NA	NA
*GW-3		41.56		NA	NA
*GW-4		41.96		NA	NA

Date: 4/30/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.95		NA	NA
*GW-3		41.92		NA	NA
*GW-4		42.28		NA	NA

Date: 7/28/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.04		NA	NA
*GW-3		42.08		NA	NA
*GW-4		42.52		NA	NA

Date: 10/29/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.53		NA	NA
*GW-3		42.43		NA	NA
*GW-4		42.85		NA	NA

Date: 1/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.37		NA	NA
*GW-3		42.21		NA	NA
*GW-4		42.80		NA	NA

Date: 4/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.64		NA	NA
*GW-3		42.66		NA	NA
*GW-4		42.84		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 7/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.55		NA	NA
*GW-3		42.60		NA	NA
*GW-4		42.95		NA	NA

Date: 10/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.01		NA	NA
*GW-3		41.99		NA	NA
*GW-4		42.41		NA	NA

Date: 1/30/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.27		NA	NA
*GW-3		42.23		NA	NA
*GW-4		42.63		NA	NA

Date: 4/27/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.27		NA	NA
*GW-3		42.18		NA	NA
*GW-4		42.59		NA	NA

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA				Project #: 1491			
Section 10A - Monitoring & Recovery Well Analytical									
(Use ppb units)									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
Det. Level		8260B	8260B	8260B					
Well I.D.		0.5	0.5	0.5					
Date									
GW-1	5/29/09	6.7	31.7	ND(1)					NA
	8/28/09	7.7	45.9	ND(1)					NA
	11/27/09	7.3	48.3	ND(1)					NA
	2/25/10	4.2	35.8	ND(1)					NA
	5/27/10	5.1	24.8	ND(1)					NA
	8/27/10	5.4	30.3	ND(1)					NA
	11/19/10	5.8	31.2	ND(1)					NA
	3/1/11	5.5	39.8	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	5.4	34	ND(1)					NA
	1/26/12	5.7	38.9	ND(1)					NA
	4/26/12	5	39.3	ND(1)					NA
	7/31/12	4.8	45	ND(1)					NA
	10/30/12	5.7	45.6	ND(1)					NA
	2/1/13	3.3	30.7	ND(1)					NA
	4/26/13	5.1	56.2	ND(1)					NA
	8/1/13	5.7	50.3	ND(1)					NA
	10/29/13	5.7	84.6	ND(1)					NA
	1/31/14	5.6	93.7	ND(1)					NA
	4/30/14	5	70	ND(1)					NA
	8/1/14	5.8	76.6	ND(1)					NA
	10/29/14	4.5	66.1	ND(1)					NA
	1/23/15	6.3	82.7	ND(1)					NA
	4/30/15	4.8	48	ND(1)					NA
	7/28/15	5.8	49.7	ND(1)					NA
	10/29/15	7	55.8	ND(1)					NA
	1/29/16	4.1	47.6	ND(1)					NA
	4/29/16	5.5	53	ND(1)					NA
	7/28/16	6	49.3	ND(1)					1
	*10/28/2016	6.6	67.4	ND(1)					1
	1/30/17	5.4	57.2	ND(1)					1
	4/27/17	5.6	48.9	ND(1)					1
*Sample not preserved to a pH<2.									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
Det. Level		8260B	8260B	8260B					
Well I.D.		0.5	0.5	0.5					
Date									
GW-3	5/29/09	22.7	1210	ND(1)					NA
	8/28/09	29.4	968	ND(20)					NA
	11/27/09	17.4	797	ND(10)					NA
	2/25/10	15.2	733	ND(5)					NA
	5/27/10	16	748	ND(5)					NA
	8/27/10	17.4	913	ND(10)					NA
	11/19/10	25.2	629	ND(10)					NA
	3/1/11	23.3	1180	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	16.2	867	ND(10)					NA
	1/26/12	17.6	857	ND(1)					NA
	4/26/12	14.2	899	ND(10)					NA
	7/31/12	11.6	937	ND(10)					NA
	10/30/12	13.6	947	ND(10)					NA
	2/1/13	3.8	84.4	ND(1)					NA
	4/26/13	15	1870	ND(1)					NA
	8/1/13	23.4	1110	ND(20)					NA
	10/29/13	ND(50)	1850	ND(50)					NA
	1/31/14	ND(20)	978	ND(20)					NA
	4/30/14	15.1	1810	ND(10)					NA
	8/1/14	22.7	1550	ND(20)					NA
	10/29/14	15	1420	ND(1)					NA
	1/23/15	ND(20)	2270	ND(20)					NA
	4/30/15	ND(25)	1530	ND(25)					NA
	7/28/15	17.2	1360	ND(1)					NA
	10/29/15	ND(20)	1420	ND(20)					NA
	1/29/16	ND(20)	1370	ND(20)					NA
	4/29/16	ND(20)	1800	ND(20)					NA
	7/28/16	ND(20)	1020	ND(1)					1
	*10/28/2016	ND(20)	1730	ND(20)					1
	1/30/17	ND(25)	1240	ND(25)					1
	4/27/17	ND(20)	1100	ND(20)					1

*Sample not preserved to a pH<2.

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA				Project #: 1491			
Section 10A - Monitoring & Recovery Well Analytical									
(Use ppb units)									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
Det. Level		8260B	8260B	8260B					
Well I.D.									
Date									
GW-4	5/29/09	2.6	78.6	ND(1)					NA
	8/28/09	4.1	154	ND(1)					NA
	11/27/09	2.9	150	ND(2)					NA
	2/25/10	3.1	228	ND(2)					NA
	5/27/10	2.5	191	ND(2)					NA
	8/27/10	1.8	70.1	ND(1)					NA
	11/19/10	1.7	77.5	ND(1)					NA
	3/1/11	2.6	184	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	2.5	172	ND(2)					NA
	1/26/12	3.3	259	ND(1)					NA
	4/26/12	3.2	199	ND(1)					NA
	7/31/12	4.2	183	ND(1)					NA
	10/30/12	4.1	262	ND(5)					NA
	2/1/13	5.5	45.6	ND(1)					NA
	4/26/13	3.9	246	ND(1)					NA
	8/1/13	6.7	236	ND(5)					NA
	10/29/13	3.9	243	ND(1)					NA
	1/31/14	ND(5)	337	ND(5)					NA
	4/30/14	ND(5)	274	ND(5)					NA
	8/1/14	ND(5)	223	ND(5)					NA
	10/29/14	3.8	259	ND(1)					NA
	1/23/15	3.4	276	ND(2)					NA
	4/30/15	3.2	191	ND(2)					NA
	7/28/15	2.2	99.7	ND(1)					NA
	10/29/15	4.4	193	ND(1)					NA
	1/29/16	3	160	ND(1)					NA
	4/29/16	ND(5)	264	ND(5)					NA
	7/28/16	4.8	288	ND(1)					1
	*10/28/2016	ND(5)	268	ND(5)					1
	1/30/17	3.7	242	ND(1)					1
	4/27/17	2.9	199	ND(2.5)					1

*Sample not preserved to a pH<2.

<p align="center">Quarterly Monitoring Report</p> <p> Facility Name: <u>Former Agra CCC/USDA</u> KDHE Project Code: _____ Project #: <u>1491</u> </p>			
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1491

Section 10B - Monitoring & Recovery Well Analytical - Dissolved Oxygen (Use mg/L units)	
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[illegible]

[illegible]

Section 15 - SVE Unit Field and Laboratory Analytical Results

SVE Unit: Effluent

Method:	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID)
	EPA TO-15	EPA TO-15	EPA TO-15	Readings (%)	Readings (%)	Readings (ppm)
Reporting Units	ug/m3	ug/m3	ug/m3			
Date						
*5/29/09	2,000	46,000	ND(64)	--	--	--
06/23/09	99	1,100	ND(2.2)	19.7	0	0.2
07/30/09	26	460	ND(2.5)	20.9	0	0
08/28/09	ND(14)	40	ND(1.1)	19.1	0	0.2
09/23/09	--	--	--	20.9	0	0.4
10/28/09	--	--	--	20.9	0	4.1
11/27/09	8.8	182	ND(3.2)	20.9	0	0.4
12/23/09	--	--	--	20.9	0	0.8
01/28/10	--	--	--	20.9	0	0
02/25/10	12	115	ND(0.81)	20	0	2.2
03/23/10	--	--	--	20.9	0	0
04/29/10	--	--	--	20.9	0	0
05/27/10	6.8	143	ND(3.2)	20.6	0	0
06/22/10	--	--	--	20.3	0	0
07/28/10	--	--	--	20.7	0	0
08/27/10	2.9	34	ND(3.2)	20.9	0	0
09/28/10	--	--	--	20.9	0	0
10/28/10	--	--	--	20.6	0	0
11/19/10	97.2	13000	ND(3.2)	20.9	0	0
12/27/10	--	--	--	21.5	0	0
02/02/11	--	--	--	--	--	--
03/01/11	ND(3.9)	71.7	ND(3.2)	20.9	0	0.1
03/29/11	--	--	--	20.9	0	0
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	49	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0
09/26/11	--	--	--	20.4	0	1.2
10/27/11	ND(3.9)	33	ND(3.2)	20.9	0	0.2
11/28/11	--	--	--	20.9	0	0
12/29/11	--	--	--	20.9	0	0.2
01/26/12	ND(3.9)	21	ND(3.2)	20.9	0	0.2
02/21/12	--	--	--	20.9	0	0.1
03/29/12	--	--	--	20.7	0	0
04/26/12	ND(3.9)	25	ND(3.2)	20.9	0	0.3
05/31/12	--	--	--	20.9	0	0
06/28/12	--	--	--	20.9	0	0
07/31/12	ND(3.9)	52	ND(3.2)	20.9	0	0
08/31/12	--	--	--	20.9	0	0.2
09/27/12	--	--	--	20.9	0	0
10/30/12	ND(3.9)	27	ND(3.2)	20.9	0	0
12/01/12	--	--	--	20.9	0	0
12/27/12	--	--	--	20.9	0	0
Continued						

*5/29/09 SVE/AS System Start-up

SVE Analytical

SVE Field Screening

Section 15 - SVE Unit Field and Laboratory Analytical Results

SVE Unit: Effluent

Method:	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID)
	EPA TO-15	EPA TO-15	EPA TO-15	Readings	Readings	Readings
Reporting Units	ug/m3	ug/m3	ug/m3	(%)	(%)	(ppm)
Date						
02/01/13	ND(3.9)	9.4	ND(3.2)	20.9	0	0
02/28/13	--	--	--	20.9	0	0
03/26/13	--	--	--	20.9	0	0
04/26/13	ND(3.9)	20	ND(3.2)	19.8	0	0
05/30/13	--	--	--	20.9	0	0
06/27/13	--	--	--	20.5	0	0
08/01/13	ND(3.9)	48	ND(3.2)	20.9	0	0
08/31/13	--	--	--	20.9	0	0
09/27/13	--	--	--	20.9	0	0
10/29/13	ND(3.9)	38	ND(3.2)	20.5	0	0
12/02/13	--	--	--	20.9	0	0
12/28/13	--	--	--	20.9	0	0.2
01/31/14	ND(3.9)	9.4	ND(3.2)	20.9	0	0
02/26/14	--	--	--	20.9	0	0
03/27/14	--	--	--	20.6	0	0
04/30/14	ND(3.9)	15	ND(3.2)	20.9	0	0
05/27/14	--	--	--	20.9	0	0
06/26/14	--	--	--	20.9	0	0
08/01/14	ND(3.9)	63.5	ND(3.2)	20.9	0	0
08/28/14	--	--	--	20.9	0	0
09/29/14	--	--	--	20.9	0	0
10/29/14	ND(3.9)	41	ND(3.2)	20.9	0	0
11/26/14	--	--	--	20.9	0	0
12/31/14	--	--	--	20.9	0	0
01/23/15	ND(3.9)	11	ND(3.2)	20.9	0	0
02/27/15	--	--	--	20.9	0	0
04/01/15	--	--	--	20.9	0	0
04/30/15	ND(3.9)	50	ND(3.2)	20.9	0	0
05/30/15	--	--	--	20.9	0	0
06/29/15	--	--	--	20.9	0	0
07/28/15	ND(3.9)	76.7	ND(3.2)	20.9	0	0
08/27/15	--	--	--	20.9	0	0
09/29/15	--	--	--	20.9	0	0
10/29/15	ND(3.9)	38	ND(3.2)	20.9	0	0
12/01/15	--	--	--	20.9	0	0
01/02/16	--	--	--	20.9	0	0
01/29/16	ND(3.9)	82.4	ND(3.2)	20.9	0	0
02/18/16	System deactivated for rebound					
09/29/16	--	--	--	20.9	0	0
10/28/16	ND(0.98)	25	ND(0.81)	20.9	0	0
11/29/16	--	--	--	20.9	0	0
12/29/16	--	--	--	20.9	0	0
01/30/17	ND(3.9)	64.2	ND(3.2)	20.9	0	0
02/23/17	--	--	--	20.9	0	0
04/03/17	--	--	--	20.9	0	0
04/27/17	ND(2.0)	34	ND(1.6)	20.9	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 17 - SVE Well Field and Laboratory Analytical Results
(Report in ug/m3)

SVE Well: SVE-1

Date	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
	Method: EPA TO-15	EPA TO-15	EPA TO-15			
05/29/09	710	5,900	ND(31)	--	--	--
06/23/09	11	150	ND(2.6)	19.7	0	0.2
07/30/09	5.1	21	ND(2.4)	20.9	0	0.3
08/28/09	5	20	ND(3.2)	19	0	0.1
09/23/09	--	--	--	20.9	0	0.6
10/28/09	--	--	--	20.9	0	28.1
11/27/09	ND(3.9)	16	ND(3.2)	20.9	0	0.6
12/23/09	--	--	--	20.9	0	3.8
01/28/10	--	--	--	20.9	0	0
02/25/10	2	62	ND(0.81)	20	0	3.9
03/23/10	--	--	--	20.9	0	2.1
04/29/10	--	--	--	20.9	0	0
05/27/10	ND(3.9)	23	ND(3.2)	20.6	0	0
06/22/10	--	--	--	20.3	0	0
07/28/10	--	--	--	20.6	0	0
08/27/10	ND(3.9)	7.5	ND(3.2)	20.9	0	0.4
09/28/10	--	--	--	20.9	0	0.2
10/28/10	--	--	--	20.6	0	0.2
11/19/10	ND(3.9)	138	ND(3.2)	20.6	0	0
12/27/10	--	--	--	21.3	0	0.2
02/02/11	--	--	--	20.9	0	0.2
03/01/11	ND(3.9)	42	ND(3.2)	20.9	0	0.2
03/29/11	--	--	--	20.9	0	0.2
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	95	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0.1
09/26/11	--	--	--	20.3	0	1.1
10/27/11	ND(3.9)	5.6	ND(3.2)	20.9	0	0.1
11/28/11	--	--	--	20.9	0	0.1
12/29/11	--	--	--	20.9	0	0.4
01/26/12	ND(3.9)	9.4	ND(3.2)	20.9	0	0.1
02/21/12	--	--	--	20.6	0	0.6
03/29/12	--	--	--	20.9	0	0
04/26/12	ND(3.9)	15	ND(3.2)	20.9	0	0.5
05/31/12	--	--	--	20.9	0	0.1
06/28/12	--	--	--	20.9	0	0.1
07/31/12	Sampling Error			20.9	0	0
08/31/12	--	--	--	20.9	0	0.5
09/27/12	--	--	--	20.9	0	0
10/30/12	ND(3.9)	15	ND(3.2)	20.9	0	0
12/01/12	--	--	--	20.9	0	0.5
12/28/12	--	--	--	20.9	0	0
02/01/13	ND(3.9)	23	ND(3.2)	20.9	0	0.2
02/28/13	--	--	--	20.9	0	0
03/26/13	--	--	--	20.9	0	0.1
04/26/13	ND(3.9)	11	ND(3.2)	19.8	0	0
05/30/13	--	--	--	20.9	0	0
06/27/13	--	--	--	20.5	0	0
08/01/13	ND(3.9)	13	ND(3.2)	20.9	0	0
08/30/13	--	--	--	20.9	0	0
09/27/13	--	--	--	20.9	0	0
10/29/13	ND(0.98)	1.1	ND(0.81)	20.9	0	0
12/02/13	--	--	--	20.9	0	0
12/28/13	--	--	--	20.9	0	0.4
01/31/14	ND(3.9)	8.2	ND(3.2)	20.9	0	0
02/26/14	--	--	--	20.9	0	0
03/27/14	--	--	--	20.9	0	0
04/30/14	ND(3.9)	18	ND(3.2)	20.9	0	0
05/27/14	--	--	--	20.9	0	0
06/26/14	--	--	--	20.9	0	0
08/01/14	ND(3.9)	13	ND(3.2)	20.9	0	0
08/28/14	--	--	--	20.9	0	0
09/29/14	--	--	--	20.9	0	0
10/29/14	ND(3.9)	10	ND(3.2)	20.9	0	0
11/26/14	--	--	--	20.9	0	0
12/31/14	--	--	--	20.9	0	0
01/23/15	ND(3.9)	11	8.5	20.9	0	0
02/27/15	--	--	--	20.9	0	0
04/01/15	--	--	--	20.9	0	0
04/30/15	ND(3.9)	7.5	ND(3.2)	20.9	0	0
05/30/15	--	--	--	20.9	0	0
	Continued					

Quarterly Monitoring Report										
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>						
Section 17 - SVE Well Field and Laboratory Analytical Results (Report in ug/m3)										
SVE Well: <u>SVE-1</u>										
LABORATORY ANALYSIS				FIELD ANALYSIS						
		Chloroform	Carbon	1,2-DCA				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
			Tetrachloride							
Method:		EPA TO-15	EPA TO-15	EPA TO-15						
Date										
06/29/15	--	--	--					20.9	0	0
07/28/15	ND(3.9)	17	ND(3.2)					20.9	0	0
08/27/15	--	--	--					20.9	0	0
09/29/15	--	--	--					20.9	0	0
10/29/15	ND(3.9)	8.8	ND(3.2)					20.9	0	0
12/01/15	--	--	--					20.9	0	0
01/02/16	--	--	--					20.9	0	0
01/29/16	ND(3.9)	ND(5)	ND(3.2)					20.9	0	0
02/18/16	System deactivated for rebound									
09/29/16	--	--	--					20.9	0	0
10/28/16	ND(0.98)	1.1	ND(0.81)					20.9	0	0
11/29/16	--	--	--					20.9	0	0
12/29/16	--	--	--					20.9	0	0
01/30/17	ND(3.9)	6.2	ND(3.2)					20.9	0	0
02/23/17	--	--	--					20.9	0	0
04/03/17	--	--	--					20.9	0	0
04/27/17	ND(2.0)	8.2	ND(1.6)					20.9	0	0

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA				Project #:		1491	
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well: SVE-2		(Report in ug/m3)							
		LABORATORY ANALYSIS					FIELD ANALYSIS		
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
05/29/09		480	8,800	ND(48)			--	--	--
06/23/09		17	49	ND(2.5)			19.7	0	0.3
07/30/09		5.2	26	ND(2.4)			20.9	0	0.6
08/28/09		1	5	ND(0.80)			19.2	0	0.3
09/23/09		--	--	--			20.9	0	0.7
10/28/09		--	--	--			20.9	0	26.6
11/27/09		2.1	23	ND(3.2)			20.9	0	1.2
12/23/09		--	--	--			20.9	0	5.3
01/28/10		--	--	--			20.9	0	0
02/25/10		1.6	12	ND(0.81)			19.9	0	2.6
03/23/10		--	--	--			20.6	0	2.6
04/29/10		--	--	--			20.9	0	0
05/27/10		ND(3.9)	6.3	ND(3.2)			20.7	0	0
06/22/10		--	--	--			20.4	0	0
07/28/10		--	--	--			20.7	0	0
08/27/10		ND(3.9)	3.8	ND(3.2)			20.9	0	0.4
09/28/10		--	--	--			20.9	0	0.2
10/28/10		--	--	--			20.6	0	0.2
11/19/10		55.7	12000	ND(3.2)			20.6	0	0
12/27/10		--	--	--			21.5	0	0
02/02/10		--	--	--			20.8	0	0
03/01/11		ND(3.9)	5.4	ND(3.2)			20.9	0	0.2
03/29/11		--	--	--			20.9	0	0.2
04/27/11		--	--	--			20.9	0	0
05/25/11		ND(3.9)	23	ND(3.2)			20.9	0	0
08/30/11		--	--	--			20.9	0	0
09/26/11		--	--	--			20.3	0	1.2
10/27/11		ND(3.9)	3.5	ND(3.2)			20.9	0	0.4
11/28/11		--	--	--			20.9	0	0
12/29/11		--	--	--			20.9	0	0.8
01/26/12		ND(3.9)	6.9	ND(3.2)			20.8	0	0
02/21/12		--	--	--			20.6	0	0.6
03/29/12		--	--	--			20.9	0	0.1
04/26/12		ND(3.9)	13	ND(3.2)			20.9	0	0.9
05/31/12		--	--	--			20.9	0	0
06/28/12		--	--	--			20.9	0	0
07/31/12		ND(3.9)	7.5	ND(3.2)			20.9	0	0
08/31/12		--	--	--			20.9	0	0.7
09/27/12		--	--	--			20.9	0	0
10/30/12		2.3	3.7	ND(3.2)			20.9	0	0
12/01/12		--	--	--			20.9	0	0.5
12/28/12		--	--	--			20.9	0	0
02/01/13		ND(3.9)	3.7	ND(3.2)			20.9	0	0.2
02/28/13		--	--	--			20.9	0	0
03/26/13		--	--	--			20.9	0	0
04/26/13		ND(3.9)	5.9	ND(3.2)			19.6	0	0
05/30/13		--	--	--			20.9	0	0
06/27/13		--	--	--			20.3	0	0
08/01/13		ND(3.9)	4.3	ND(3.2)			20.9	0	0
08/31/13		--	--	--			20.9	0	0
09/27/13		--	--	--			20.9	0	0
10/29/13		ND(0.98)	0.82	ND(0.81)			20.9	0	0
12/02/13		--	--	--			20.8	0	0
12/28/13		--	--	--			20.9	0	0.3
01/31/14		ND(3.9)	3.3	ND(3.2)			20.9	0	0
02/26/14		--	--	--			20.9	0	0
03/27/14		--	--	--			20.6	0	0
04/30/14		ND(3.9)	6.3	ND(3.2)			20.9	0	0
05/27/14		--	--	--			20.9	0	0
06/26/14		--	--	--			20.9	0	0
08/01/14		ND(3.9)	5.3	ND(3.2)			20.9	0	0
08/28/14		--	--	--			20.9	0	0
09/29/14		--	--	--			20.9	0	0
10/29/14		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
11/26/14		--	--	--			20.9	0	0
12/31/14		--	--	--			20.9	0	0
01/23/15		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
02/27/15		--	--	--			20.9	0	0
04/01/15		--	--	--			20.9	0	0
04/30/15		ND(3.9)	2.9	ND(3.2)			20.9	0	0
05/30/15		--	--	--			20.9	0	0
Continued									

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA				Project #:		1491	
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well:		SVE-2 (Report in ug/m3)							
		LABORATORY ANALYSIS				FIELD ANALYSIS			
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
06/29/15		--	--	--			20.9	0	0
07/28/15		ND(3.9)	4.5	ND(3.2)			20.9	0	0
08/27/15		--	--	--			20.9	0	0
09/29/15		--	--	--			20.9	0	0
10/29/15		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
12/01/15		--	--	--			20.9	0	0
01/02/16		--	--	--			20.9	0	0
01/29/16		ND(3.9)	42	ND(3.2)			20.9	0	0
02/18/16		System deactivated for rebound							
09/29/16		--	--	--			20.9	0	0
10/28/16		ND(0.98)	2.6	ND(0.81)			20.9	0	0
11/29/16		--	--	--			20.9	0	0
12/29/16		--	--	--			20.9	0	0
01/30/17		ND(3.9)	3.2	ND(3.2)			20.9	0	0
02/23/17		--	--	--			20.9	0	0
04/03/17		--	--	--			20.9	0	0
04/27/17		ND(2.0)	3.6	ND(1.6)			20.9	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 17 - SVE Well Field and Laboratory Analytical Results
(Report in ug/m3)

SVE Well: SVE-3

Method:	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Date	EPA TO-15	EPA TO-15	EPA TO-15			
05/29/09	2,600	60,000	ND(310)	--	--	--
06/23/09	190	2,000	ND(2.5)	19.6	0	0.2
07/30/09	54	950	ND(2.4)	20.9	0	0.6
08/28/09	37	502	ND(3.2)	19.1	0	0.4
09/23/09	--	--	--	20.9	0	0.7
10/28/09	--	--	--	20.9	0	27.4
11/27/09	21	528	ND(3.2)	20.9	0	0.7
12/23/09	--	--	--	20.9	0	4.2
01/28/10	--	--	--	20.9	0	0
02/25/10	28	238	ND(1.6)	20	0	5
03/23/10	--	--	--	20.9	0	0
04/29/10	--	--	--	20.9	0	0
05/27/10	15	345	ND(3.2)	20.6	0	0
06/22/10	--	--	--	20.4	0	0.1
07/28/10	--	--	--	20.6	0	0
08/27/10	9.3	113	ND(3.2)	20.9	0	0.3
09/28/10	--	--	--	20.9	0	0.3
10/28/10	--	--	--	20.6	0	0.2
11/19/10	47	7110	ND(3.2)	20.9	0	0
12/27/10	--	--	--	21.5	0	0
02/02/11	--	--	--	20.9	0	0
03/01/11	ND(3.9)	96.2	ND(3.2)	20.9	0	0
03/29/11	--	--	--	20.9	0	0
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	5	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0
09/23/11	--	--	--	20.4	0	1.3
10/27/11	3	165	ND(3.2)	20.9	0	0.2
11/28/11	--	--	--	20.9	0	0
12/29/11	--	--	--	20.9	0	0.1
01/26/12	ND(3.9)	46	ND(3.2)	20.9	0	0.2
02/21/12	--	--	--	20.6	0	0.8
03/29/12	--	--	--	20.5	0	0.2
04/26/12	ND(3.9)	45	ND(3.2)	20.9	0	0.3
05/31/12	--	--	--	20.5	0	0
06/28/12	--	--	--	20.9	0	0.2
07/31/12	ND(3.9)	81.8	ND(3.2)	20.9	0	0.1
08/31/12	--	--	--	20.9	0	0.7
09/27/12	--	--	--	20.9	0	0.2
10/30/12	ND(3.9)	47	ND(3.2)	20.9	0	0
12/01/12	--	--	--	20.9	0	0.8
12/28/12	--	--	--	20.9	0	0.1
02/01/13	ND(3.9)	19	ND(3.2)	20.9	0	0.3
02/28/13	--	--	--	20.5	0	0.1
03/26/13	--	--	--	20.9	0	0.2
04/26/13	ND(3.9)	39	ND(3.2)	19.9	0	0
05/30/13	--	--	--	20.9	0	0.1
06/27/13	--	--	--	20.3	0	0
08/01/13	ND(3.9)	85.5	ND(3.2)	20.9	0	0
08/30/13	--	--	--	20.9	0	0
09/27/13	--	--	--	20.9	0	0
10/29/13	ND(3.9)	90.6	ND(3.2)	20.5	0	0
12/02/13	--	--	--	20.8	0	0
12/28/13	--	--	--	20.9	0	0.4
01/31/14	ND(3.9)	47	ND(3.2)	20.9	0	0
02/26/14	--	--	--	20.9	0	0
03/27/14	--	--	--	20.9	0	0
04/30/14	ND(3.9)	60	ND(3.2)	20.9	0	0
05/27/14	--	--	--	20.9	0	0
06/26/14	--	--	--	20.9	0	0
08/01/14	ND(3.9)	150	ND(3.2)	20.9	0	0
08/28/14	--	--	--	20.9	0	0
09/29/14	--	--	--	20.9	0	0
10/29/14	ND(3.9)	83	ND(3.2)	20.9	0	0
11/26/14	--	--	--	20.9	0	0
12/31/14	--	--	--	20.9	0	0
01/23/15	ND(3.9)	89.3	ND(3.2)	20.9	0	0
02/27/15	--	--	--	20.9	0	0
04/01/15	--	--	--	20.9	0	0
04/30/15	ND(3.9)	57	ND(3.2)	20.9	0	0
05/30/15	--	--	--	20.9	0	0
	Continued					

SVE Well: SVE-3 **Section 17 - SVE Well Field and Laboratory Analytical Results**
 (Report in ug/m3)

	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Method:	EPA TO-15	EPA TO-15	EPA TO-15			
Date						
06/29/15	--	--	--	20.9	0	0
07/28/15	2.1	184	ND(3.2)	20.9	0	0
08/27/15	--	--	--	20.9	0	0
09/29/15	--	--	--	20.9	0	0
10/29/15	ND(3.9)	166	ND(3.2)	20.9	0	0
12/01/15	--	--	--	20.9	0	0.1
01/02/16	--	--	--	20.9	0	0
01/29/16	2.1	240	ND(3.2)	20.9	0	0
02/18/16	System deactivated for rebound					
09/29/16	--	--	--	20.9	0	0
10/28/16	1.4	145	ND(0.81)	20.9	0	0
11/29/16	--	--	--	20.9	0	0
12/29/16	--	--	--	20.9	0	0
01/30/17	ND(3.9)	144	ND(3.2)	20.9	0	0
02/23/17	--	--	--	20.9	0	0
04/03/17	--	--	--	20.9	0	0
04/27/17	1.6	120	ND(1.6)	20.9	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 17 - SVE Well Field and Laboratory Analytical Results
(Report in ug/m3)

SVE Well: SVE-4

Method:	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Date	EPA TO-15	EPA TO-15	EPA TO-15			
05/29/09	1,800	29,000	ND(160)	--	--	--
06/23/09	51	400	ND(2.5)	19.5	0	0.4
07/30/09	12	130	ND(2.3)	20.9	0	0.7
08/28/09	8	84	ND(3.2)	19.4	0	0.2
09/23/09	--	--	--	20.9	0	0.8
10/28/09	--	--	--	20.6	0	31.3
11/27/09	7.3	110	ND(3.2)	20.9	0	0.6
12/23/09	--	--	--	20.9	0	3.6
01/28/10	--	--	--	20.9	0	0
02/25/10	6.8	59	ND(0.81)	20	0	0.7
03/23/10	--	--	--	20.9	0	0
04/29/10	--	--	--	20.9	0	0
05/27/10	3.6	35	ND(3.2)	20.4	0	0
06/22/10	--	--	--	20.1	0	0.2
07/28/10	--	--	--	20.5	0	0
08/27/10	3	17	ND(3.2)	20.9	0	0.4
09/28/10	--	--	--	20.9	0	0.4
10/28/10	--	--	--	20.9	0	0.9
11/19/10	90.3	34300	ND(3.2)	20.9	0	0
12/27/10	--	--	--	21.5	0	0.2
02/02/11	--	--	--	20.9	0	0
03/01/11	ND(3.9)	25	ND(3.2)	20.9	0	0
03/29/11	--	--	--	20.9	0	0.2
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	23	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0
09/23/11	--	--	--	20.2	0	1.8
10/27/11	ND(3.9)	17	ND(3.2)	20.9	0	0.1
11/28/11	--	--	--	20.9	0	0.1
12/29/11	--	--	--	20.9	0	0.1
01/26/12	ND(3.9)	8.8	ND(3.2)	20.8	0	0.1
02/21/12	--	--	--	20.9	0	0.8
03/29/12	--	--	--	20.8	0	0
04/26/12	ND(3.9)	8.2	ND(3.2)	20.9	0	0.3
05/31/12	--	--	--	--	--	--
06/28/12	--	--	--	--	--	--
07/31/12	ND(3.9)	18	ND(3.2)	20.9	0	0
08/31/12	--	--	--	--	--	--
09/27/12	--	--	--	--	--	--
10/30/12	ND(3.9)	8.2	ND(3.2)	20.9	0	0
12/01/12	--	--	--	--	--	--
12/28/12	--	--	--	--	--	--
02/01/13	ND(3.9)	8.2	ND(3.2)	20.9	0	0.3
02/28/13	--	--	--	Off Cycling		
03/26/13	--	--	--	Off Cycling		
04/26/13	ND(3.9)	4.4	ND(3.2)	20.2	0	0.1
05/30/13	--	--	--	--	--	--
06/27/13	--	--	--	--	--	--
08/01/13	ND(3.9)	18	ND(3.2)	20.5	0	0
08/30/13	--	--	--	--	--	--
09/27/13	--	--	--	20.9	0	0
10/29/13	ND(3.9)	14	ND(3.2)	20.4	0	0
12/02/13	--	--	--	--	--	--
12/28/13	--	--	--	--	--	--
01/31/14	ND(3.9)	13	ND(3.2)	20.9	0	0
02/26/14	--	--	--	--	--	--
03/27/14	--	--	--	--	--	--
04/30/14	ND(3.9)	20	ND(3.2)	20.9	0	0
08/01/14	ND(3.9)	28	ND(3.2)	20.9	0	0
10/29/14	ND(3.9)	13	ND(3.2)	20.9	0	0
01/23/15	ND(3.9)	12	ND(3.2)	20.9	0	0
04/30/15	ND(3.9)	20	ND(3.2)	20.9	0	0
07/28/15	ND(3.9)	30	ND(3.2)	20.9	0	0
10/29/15	ND(3.9)	ND(5)	ND(3.2)	20.9	0	0
01/29/16	ND(3.9)	20	ND(3.2)	20.9	0	0
02/18/16	System deactivated for rebound					
10/28/16	ND(0.98)	19	ND(0.81)	20.9	0	0
01/30/17	ND(3.9)	16	ND(3.2)	20.9	0	0
04/27/17	ND(2.0)	14	ND(1.6)	20.9	0	0

Quarterly Monitoring Report									
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>					
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well: <u>SVE-5</u> (Report in ug/m3)									
		LABORATORY ANALYSIS					FIELD ANALYSIS		
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
05/29/09		310	13,000	ND(64)			--	--	--
06/23/09		160	1,900	ND(2.4)			19.7	0	0.3
07/30/09		39	760	ND(2.4)			20.9	0	0.6
08/28/09		26	525	ND(3.2)			19.2	0	0.3
09/23/09		--	--	--			20.9	0	1.3
10/28/09		--	--	--			20.6	0	29
11/27/09		6.8	188	ND(3.2)			20.9	0	0.5
12/23/09		--	--	--			20.9	0	3.9
01/28/10		--	--	--			20.9	0	0
02/25/10		18	174	ND(0.81)			19.9	0	5.7
03/23/10		--	--	--			20.9	0	0
04/29/10		--	--	--			20.9	0	0
05/27/10		5.9	130	ND(3.2)			20.6	0	0
06/22/10		--	--	--			20.3	0	0.2
07/28/10		--	--	--			20.6	0	0.4
08/27/10		2.9	55	ND(3.2)			20.9	0	0.4
09/28/10		--	--	--			20.9	0	0.2
10/28/10		--	--	--			20.9	0	0.4
11/19/10		31	4940	ND(3.2)			20.9	0	0
12/27/10		--	--	--			21.5	0	0.2
02/02/11		--	--	--			20.9	0	0.1
03/01/11		ND(3.9)	129	ND(3.2)			20.9	0	0
03/29/11		--	--	--			20.9	0	0.2
04/27/11		--	--	--			20.9	0	0
05/25/11		3.2	125	ND(3.2)			20.5	0	0
08/30/11		--	--	--			20.9	0	0.1
09/26/11		--	--	--			20.4	0	1.3
10/27/11		ND(3.9)	18	ND(3.2)			20.9	0	0.1
11/28/11		--	--	--			20.9	0	0
12/29/11		--	--	--			20.8	0	0.3
01/26/12		ND(3.9)	18	ND(3.2)			20.8	0	0
02/21/12		--	--	--			20.9	0	0.7
03/29/12		--	--	--			20.9	0	0.1
04/26/12		2.4	36	ND(3.2)			20.9	0	0.4
05/31/12		--	--	--			OFF	OFF	OFF
06/28/12		--	--	--			OFF	OFF	OFF
07/31/12		ND(3.9)	40	ND(3.2)			20.9	0	0
08/31/12		--	--	--			--	--	--
09/27/12		--	--	--			--	--	--
10/30/12		ND(3.9)	23	ND(3.2)			20.9	0	0
12/01/12		--	--	--			NA		
12/28/12		--	--	--			NA		
02/01/13		ND(3.9)	18	ND(3.2)			20.9	0	0.2
02/28/13		--	--	--			Off Cycling		
03/26/13		--	--	--			Off Cycling		
04/26/13		ND(3.9)	4.6	ND(3.2)			20	0	0
05/30/13		--	--	--			--	--	--
06/27/13		--	--	--			--	--	--
08/01/13		ND(3.9)	49	ND(3.2)			20.8	0	0
08/30/13		--	--	--			--	--	--
09/27/13		--	--	--			20.9	0	0
10/25/13		ND(3.9)	45	ND(3.2)			20.5	0	0
12/02/13		--	--	--			--	--	--
12/28/13		--	--	--			--	--	--
01/31/14		ND(3.9)	162	ND(3.2)			20.9	0	0
02/26/14		--	--	--			--	--	--
03/27/14		--	--	--			--	--	--
04/30/14		ND(3.9)	64.8	ND(3.2)			20.9	0	0
08/01/14		ND(3.9)	96.2	ND(3.2)			20.9	0	0
10/29/14		ND(3.9)	45	ND(3.2)			20.9	0	0
01/23/15		ND(3.9)	47	ND(3.2)			20.9	0	0
04/30/15		ND(3.9)	77.4	ND(3.2)			20.9	0	0
07/28/15		ND(3.9)	117	ND(3.2)			20.9	0	0
10/29/15		ND(3.9)	91.2	ND(3.2)			20.9	0	0
01/29/16		ND(3.9)	128	ND(3.2)			20.9	0	0
02/18/16	System deactivated for rebound								
10/28/16		1	250	ND(0.81)			20.9	0	0
01/30/17		2	370	ND(3.2)			20.9	0	0
04/27/17		1.7	294	ND(1.6)			20.9	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-1

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	5.5	4.95	5
06/23/09	5.89	5.29	3.5
07/29/09	6.11	5.25	6
08/28/09	5.86	4.13	6
09/23/09	5.91	5.04	6.9
10/28/09	5.47	4.03	9
11/27/09	5.96	5.76	3.6
12/23/09	4.97	4.29	4
01/28/10	4.77	4.56	5
02/25/10	4.95	4.72	4.9
03/23/10	4.84	4.46	4.8
04/29/10	5.47	5.31	3
05/27/10	5.69	5.14	4.2
06/22/10	6.18	5.54	5
07/28/10	1.06	0.57	4.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	0.92	0.32	5.9
11/19/10	Possible broken line. Well Line deactivated.		
12/27/10	OFF		
02/02/11	5.4	4.89	3
03/01/11	5.34	NA	3
03/29/11	4.61	NA	4
04/27/11	5.47	5.01	3.3
05/25/11	5.65	NA	3.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	5.75	5.49	4
11/28/11	5.68	5.11	4
12/29/11	5.32	5.31	4
01/26/12	5.54	5.3	3
02/21/12	5.68	5.19	2.8
03/29/12	5.86	5.41	3
04/28/12	5.62	5.18	2.5
05/31/12	5.44	5.18	2
06/28/12	5.34	5.17	4
07/31/12	5.28	5.04	4
08/31/12	5.44	4.85	6
09/27/12	5.33	4.9	5
10/30/12	5.32	4.98	4
12/01/12	Needs Vanes & Filters		
02/01/13	5.14	4.86	3
02/28/13	4.73	4.36	5
03/26/13	4.59	4.4	4
04/26/13	4.91	4.79	3
05/30/13	4.91	4.55	3.5
06/27/13	4.91	4.51	4
08/01/13	4.69	4.4	3.5
08/30/13	4.67	4.24	4
09/27/13	4.54	4.26	3.8
10/29/13	4.74	4.47	3.5
12/02/13	4.4	3.96	6
12/28/13	4.73	4.55	3.5
01/31/14	4.27	4.06	3.5
02/26/14	4.16	3.82	5
03/27/14	4.38	3.94	5
04/30/14	4.31	3.9	5.3
05/27/14	4.63	3.96	5.2
06/26/14	4.52	3.93	4.9
08/01/14	4.27	3.9	5
08/28/14	4.42	3.89	5.5
09/29/14	4.36	3.8	6
10/29/14	4.37	3.69	6.7
11/26/14	4.42	3.63	7
12/31/14	4.26	3.34	6.8
01/23/15	4.17	3.57	6.6
02/27/15	4.34	3.49	7.9
04/01/15	4.27	3.7	6.5
04/30/15	4.2	3.62	6.2
05/30/15	4.33	3.63	6.3
06/29/15	3.92	3.36	6.1
07/28/15	4.19	3.39	6
	Continued		

Possible broken line, pad hit by tractor & moved. Took readings & turned off

Wellhead Pad Under construction

Wellhead Pad Under construction

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-1

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	4.32	3.42	7.7
09/29/15	4	3.27	7
10/29/15	3.95	3.29	6.7
12/01/15	3.78	3.35	5.7
01/02/16	3.62	3.54	4
01/29/16	3.56	3.4	4
02/18/16	System deactivated for rebound		
09/29/16	5.16	5.1	4
10/28/16	4.81	4.7	4
11/29/16	4.83	4.44	4
12/29/16	4.74	4.37	4.2
01/30/17	4.88	4.5	4
02/23/17	3.67	3.39	4
04/03/17	3.74	3.51	4.5
04/27/17	3.77	3.33	5.4

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: A5-2

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.5	5
06/23/09	8.84	8.31	4
07/29/09	8.27	8.21	1.5
08/28/09	8.33	8.08	2
09/23/09	8.2	8.1	1.1
10/28/09	8.2	7.96	0.5
11/27/09	8.74	8.61	3.5
12/23/09	8.48	8.06	4
01/28/10	8.33	8.06	3.7
02/25/10	8.41	8.22	3
03/23/10	8.47	8.37	2
04/29/10	8.61	8.35	3
05/27/10	8.88	8.48	3.7
06/22/10	8.74	8.53	2.4
07/28/10	8.9	8.45	2.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.42	8.27	3.7
11/19/10	8.92	8.61	4
12/27/10	9.13	8.65	5
02/02/11	8.76	8.41	3.7
03/01/11	2	0.54	3
03/29/11	0.44	0.11	4
04/27/11	Deactivated due to no PSI at Manifold through 10-6-11		
11/28/11	9.03	9	4
12/29/11	9.03	9	4
01/26/12	8.68	8.67	3
02/21/12	8.97	8.63	2.8
03/29/12	9.16	8.66	3
04/26/12	8.95	8.65	3
05/31/12	8.59	8.36	2
06/28/12	8.72	8.14	5
07/31/12	8.36	8.18	5
08/31/12	8.81	8.28	6
09/27/12	8.49	8.13	5
10/30/12	8.25	8.02	4
12/01/12	Needs Vanes & Filters		
02/01/13	8.43	8.11	3.7
02/28/13	7.98	7.59	5
03/26/13	7.68	7.3	4
04/26/13	7.96	7.82	3
05/30/13	7.86	7.47	2.5
06/27/13	8.37	7.92	4
08/01/13	7.59	7.32	4
08/31/13	7.76	7.3	4
09/27/13	7.82	7.55	4
10/29/13	7.85	7.59	3.7
12/02/13	7.8	7.38	6
12/28/13	7.87	7.79	3.5
01/31/14	7.68	7.42	3.5
02/26/14	7.67	7.29	5
03/27/14	7.87	7.45	5
04/30/14	7.89	7.38	2
05/27/14	8.05	7.43	5.2
06/26/14	7.98	7.37	5.1
08/01/14	7.93	7.27	5
08/28/14	8.61	7.38	8.5
09/29/14	8.34	7.29	8
10/29/14	8.04	7.17	7.7
11/26/14	7.78	7.09	7
12/31/14	7.37	6.76	5.5
01/23/15	7.26	6.9	5
02/27/15	7.56	6.79	7
04/01/15	7.64	7.07	6.5
04/30/15	7.52	6.98	6.2
05/30/15	7.7	7.01	6
06/29/15	7.49	6.96	5.8
07/28/15	7.46	6.96	6
	Continued		

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

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Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-2

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	7.46	6.98	5
09/29/15	7.14	6.79	4.8
10/29/15	7.11	6.73	4.7
12/01/15	7.33	6.9	5
01/02/16	6.46	4.27	4
01/29/16	7.38	6.8	4
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	4
10/28/16	10+	9.72	4
11/29/16	9.98	9.55	4
12/29/16	9.97	9.41	4.2
01/30/17	10+	9.64	4
02/23/17	7.36	7.04	4
04/03/17	7.44	7.04	4.5
04/27/17	7.36	7.03	4.3

Quarterly Monitoring Report			
Facility Name:	Former Agra CCC/USDA		Project #: 1491
Section 18 - Air Sparge (A/S) Wells / System Operation			
A/S Well: AS-3			
	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.21	5
06/23/09	7.75	6.98	4
07/29/09	8.87	8.08	5
08/28/09	8.5	8.13	7
09/23/09	8.3	7.8	5
10/28/09	8.16	7.89	3.2
11/27/09	8.86	8.8	2.2
12/23/09	7.41	7.33	4
01/28/10	7.19	6.66	4.7
02/25/10	7.15	6.78	4.8
03/25/10	6.9	6.6	5
04/29/10	7.4	7.22	3
05/27/10	7.78	7.51	4.9
06/22/10	8.71	8.27	4
07/28/10	8.96	8.27	4
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.35	7.67	5
11/19/10	8.82	8.05	6.8
12/27/10	9.19	8.74	3.5
02/02/11	8.68	8.39	2
03/01/11	8	7.64	3
03/29/11	7.75	7.46	4
04/27/11	8.22	8.09	3
05/25/11	10+	NA	2.8
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8	7.73	5
11/28/11	8.32	8.04	4
12/29/11	10.55	10.21	4
01/26/12	12.46	12.42	3
02/21/12	10+	10+	1.3
03/29/12	11.74	10.74	1.5
04/28/12	11.13	11	3
05/31/12	13.98	13.8	3
06/28/12	15.72	15.07	6
07/31/12	10+	10+	2
08/31/12	7.71	7.65	1
09/27/12	10+	10+	1.5
10/30/12	10+	10+	2
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	3.2
02/28/13	10+	10+	4
03/26/13	10+	10+	2
04/26/13	10+	10+	0.5
05/30/13	10+	10+	1.5
06/27/13	10+	10+	0
08/01/13	10+	10+	<0.5
08/31/13	10+	10+	1
09/27/13	10+	10+	0.5
10/29/13	10+	10+	0.5
12/02/13	10+	10+	0
12/28/13	10+	10+	0.5
01/31/14	6.39	5.32	1
02/26/14	10+	10+	7
03/27/14	10+	10+	3
04/30/14	15.77	15.66	2
05/27/14	16.11	15.87	1.5
06/26/14	14.32	14.23	1.7
08/01/14	10+	10+	1.7
08/28/14	10+	10+	2
09/29/14	10+	10+	2
10/29/14	10+	10+	1.7
11/26/14	10+	10+	2
12/31/14	10+	10+	1.8
01/23/15	10+	10+	1.8
02/27/15	10+	10+	2
04/01/15	10+	10+	1.8
04/30/15	10+	10+	2
05/30/15	10+	10+	2
06/29/15	10+	10+	2
07/28/15	10+	10+	2.2
	Continued		

Unable to collect wellhead pressure reading due to standing water over wellhead

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-3

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	10+	10+	3
09/29/15	10+	10+	3.3
10/29/15	10+	10+	3.2
12/01/15	12.9	3.22	3
01/02/16	10+	10+	3.2
01/29/16	10+	10+	3.3
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	3.5
10/28/16	10+	10+	3.5
11/29/16	10+	10+	4.2
12/29/16	10+	10+	3.2
01/30/17	10+	10+	3.7
02/23/17	10+	10+	3
04/03/17	10+	10+	1
04/27/17	10+	10+	1.8

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-4

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	9	8.56	5
06/23/09	8.41	8.16	3.7
07/29/09	8.17	8.03	1.5
08/28/09	8.38	8.14	3
09/23/09	8.05	7.95	1.5
10/28/09	8.2	7.97	1
11/27/09	8.65	8.48	3.6
12/23/09	8.29	8.16	4
01/28/10	8.32	7.81	5
02/25/10	8.37	8.01	4.5
03/23/10	8.43	8.11	4.5
04/29/10	8.48	8.25	3
05/27/10	8.34	8.25	1.8
06/22/10	8.44	8.14	3
07/28/10	8.62	7.93	2.2
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.46	8.26	3.6
11/19/10	8.9	8.52	4.6
12/27/10	8.5	8.4	4
02/02/11	8.49	8.36	2
03/01/11	8.68	8.52	3
03/29/11	10+	7.89	1
04/27/11	8.58	8.28	2
05/25/11	8.71	NA	2.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8.72	8.45	4
11/28/11	8.84	8.55	4
12/29/11	8.61	8.36	4
01/26/12	8.96	8.81	3
02/21/12	10+	8.28	2.8
03/29/12	8.89	8.09	3
04/26/12	8.65	8.19	3
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/30/12	8.25	7.76	5
08/31/12	--	--	--
09/27/12	8.54	7.76	6
10/30/12	8.88	8.1	7.75
12/01/12	Needs Vanes & Filters		
02/01/13	10+	8.16	8.5
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	7.91	7.86	2.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	8.75	7.18	7
08/31/13	--	--	--
09/27/13	7.51	7.35	3.5
10/29/13	7.71	7.47	3.7
12/02/13	--	--	--
12/28/13	--	--	--
01/31/14	7.61	--	4.5
04/30/14	8.39	7.23	9
08/01/14	7.95	7.03	Broken
10/29/14	8.15	6.88	10.1
01/23/14	7.63	6.72	8.8
04/30/15	7.91	6.72	9.9
07/28/15	7.51	6.52	8.9
10/29/15	7.81	6.44	11
01/29/16	7.9	6.6	11.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.36	11
01/30/17	Flowmeter broken to current		

Unable to collect wellhead pressure reading due to standing water over wellhead

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-5

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.9	5
06/23/09	8.93	8.42	3
07/29/09	8.92	8.7	3.2
08/28/09	8.65	8.5	2
09/23/09	8.45	8.39	0
10/28/09	8.28	8.22	0
11/27/09	8.95	8.85	0
12/23/09	10+	8.29	1.5
01/28/10	8.47	8.44	0
02/25/10	8.51	8.5	0
03/23/10	8.59	8.57	0
04/29/10	9.96	9.64	3
05/27/10	8.96	8.8	0
06/22/10	8.84	8.79	0
07/28/10	10+	8.84	0
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.55	8.43	0
11/19/10	10	8.88	0
12/27/10	9.3	8.97	3
02/02/11	10+	9.02	3.3
03/01/11	8.98	8.14	2.5
03/29/11	10+	8.96	4
04/27/11	10+	8.8	3.5
05/25/11	10+	NA	4.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	11.61	11.3	3
11/28/11	10+	10+	0
12/29/11	11.1	11.1	0
01/26/12	12.52	12.5	0.5
02/21/12	10+	10+	0.5
03/29/12	11.77	11.32	0.5
04/28/12	11.63	11.62	1
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/31/12	10+	10+	7
08/31/12	--	--	--
09/27/12	10+	10+	5
10/30/12	10+	10+	2.5
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	2
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	10+	10+	0.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	10+	10+	*--
08/31/13	--	--	--
09/27/13	10+	10+	*--
10/29/13	10+	10+	0.5
12/02/13	--	--	--
01/31/14	10+	--	--
02/26/14	8.27	7.7	6.25
04/30/14	8.99	7.55	10
08/01/14	8.24	7.31	8
10/29/14	8.51	7.25	9.4
01/23/15	7.85	6.99	8
04/30/15	8.25	7.06	9.3
07/28/15	7.96	6.86	8.2
10/29/15	8.49	6.92	10.5
01/29/16	8.55	7.04	10.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.94	10.2
01/30/17	10+	10+	10
04/27/17	8.75	6.91	11.5

Unable to collect wellhead pressure reading due to standing water over wellhead

* Flowmeter broken

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA				Project #: 1491			
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
	System		Bleed-Off	Pre	Post	Operation Time	
Parameter:	Pressure	Flow Rate	Valve	Air Temp.	Air Temp.	Continuous	Cycling
Units:	(psi)	(scfm)	(%) Open	(Deg. F)	(Deg. F)	(Hours)	(Hours)
Date							
05/29/09	8	20	Closed	--	--		
06/23/09	10.8	18.2	Closed	148	--		591.7
07/29/09	11.4	17.2	Closed	129	--		1111.1
08/28/09	11	20	Closed	--	--		1112.1
09/23/09	11.3	14.5	Closed	128	--		1112.1
10/28/09	11.4	13.7	Closed	113	--		1112.2
11/27/09	12	12.9	Closed	119	--		1112.2
12/23/09	14	17.5	Closed	113	--		1112.2
01/28/10	21.7	18.4	Closed	91	--		175.7
02/25/10	12	17.2	Closed	101	--		507.5
03/23/10	11.6	16.3	Closed	116	--		813
04/29/10	12.7	15	Closed	134	--		1261.1
05/27/10	11.4	14.6	Closed	139	--		1938.6
06/22/10	11.4	14.4	Closed	135	--		2556.5
07/28/10	11.1	13.8	Closed	147	--		3421.3
08/27/10	Blower faulty. System deactivated.						3954.2
10/28/10	10.8	18.2	Closed	124	--		4478.4
11/19/10	10.4	15.4	Closed	119	--		5010.7
12/27/10	11	15.5	Closed	110	--		5921.1
02/02/11	10.8	14	Closed	109	--		6808.4
03/01/11	10	16.5	Closed	120	--		7456.5
03/29/11	11.1	17	Closed	111	--		7770.2
04/27/11	11.1	15.8	Closed	122	--		8467.3
05/25/11	11.9	13.3	Closed	124	--		9138.8
08/30/11	OFF						
09/26/11	OFF						
10/27/11	13	16	Closed	126	--		9644.7
11/28/11	13.5	16	Closed	120	--		10407.5
12/29/11	11	16	Closed	120	--		11155.5
01/26/12	14	12.5	Closed	104	--		11824.4
02/21/12	14	10.2	Closed	111	--		12448.6
03/29/12	13	11	Closed	120	--		13336.4
04/26/12	13	12.5	Closed	127	--		14000.7
05/31/12	16	7	Closed	110	--		14642.9
06/28/12	18	15	Closed	150	--		15313.4
07/31/12	16	16	Closed	140	--		16105.7
08/31/12	19.9	13	Closed	139	--		16849.7
09/27/12	20	11.5	Closed	118	--		17498.6
10/30/12	20	10	Closed	110	--		18288.7
12/01/12	Needs Vanes & Filters						
02/01/13	13.5	20.4	Closed	107	--		18671.6
02/28/13	20	14	Closed	106	--		19317.5
03/26/13	21	10	Closed	100	--		19939.9
04/26/13	21	6	Closed	112	--		20687.2
05/30/13	21.5	7.5	Closed	120	--		21499.8
06/27/13	19	8	Closed	130	--		22171.8
08/01/13	19	8	Closed	106	--		23014.5
08/31/13	20	9	Closed	--	--		23706.2
09/27/13	21	7.8	Closed	122	--		24378.7
10/29/13	18.5	11.9	Closed	104	--		25148
12/02/13	15	12	Closed	110	--		25963.7
12/28/13	18.5	7.5	Closed	100	--		26587.8
01/31/14	19	17	Closed	79	--		27405.9
02/26/14	17	17	Closed	82	--		28027.3
03/27/14	17.9	13	Closed	84	--		28723.8
04/30/14	18.2	13.1	Closed	108	--		29538.2
05/27/14	18.5	11.9	Closed	133	--		30187.8
06/26/14	17	11.7	Closed	181	--		30896.1
08/01/14	16.1	11.7	Closed	131	--		31765.9
08/28/14	16.7	16	Closed	133	--		32412.5
09/29/14	16	16	Closed	129	--		33178.4
10/29/14	16.2	16.1	Closed	99	--		33899.2
11/26/14	14.4	16	Closed	85	--		34569.1
12/31/14	14.3	14.1	Closed	94	--		35412.3
01/23/15	13.5	13.4	Closed	102	--		35964.8
02/27/15	16.5	16.9	Closed	91	--		36798.5
04/01/15	15.5	14.8	Closed	116	--		37589.3
04/30/15	15.2	14.4	Closed	111	--		38288.9
05/30/15	15.5	14.3	Closed	112	--		39005.6
06/29/15	14.3	13.9	Closed	115	--		39725
07/28/15	14.2	14.2	Closed	123	--		40425.1
		Continued					

12/22/09 ASP set to run 4hours on 4 hours off.

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA				Project #: 1491			
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
	System		Bleed-Off	Pre	Post	Operation Time	
Parameter:	Pressure	Flow Rate	Valve	Air Temp.	Air Temp.	Continuous	Cycling
Units:	(psi)	(scfm)	(%) Open	(Deg. F)	(Deg. F)	(Hours)	(Hours)
Date							
08/27/15	18	15.7	Closed	129	--		41141.3
09/29/15	17	15.1	Closed	119	--		41933.8
10/29/15	17	14.6	Closed	111	--		42656.4
12/01/15	15	13.7	Closed	91	--		43448.8
01/02/16	16.5	11.2	Closed	96	--		44214.4
01/29/16	15.5	11.3	Closed	99	--		44863.9
02/18/16	System deactivated for rebound						
09/29/16	17	11.5	Closed	105	--		45554.9
10/28/16	16.2	11.5	Closed	116	--		46251.8
11/29/16	19.8	12.2	Closed	124	--		47017.9
12/29/16	20	11.6	Closed	127	--		47738.5
01/30/17	18	11.7	Closed	101	--		48507.2
02/23/17	18.7	11	Closed	115	--		49080.5
04/03/17	17	10	Closed	111	--		49977.7
04/27/17	19.3	11.5	Closed	106	--		50556.2

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings													
Well # / Unit #	Date	05/29/09	06/23/09	07/29/09	08/28/09	09/23/09	10/28/09	11/27/09	12/23/09	01/28/10	02/25/10	03/23/10	04/29/10
SV-1 Manifold Vacuum ("H2O)		34.6	34	30.2	29	27	25.7	26.3	18.2	27	30.7	29.5	32.3
SV-1 Wellhead Vacuum ("H2O)		34.6	31.6	28.2	26	24.6	22.9	24	16	24.3	23.2	28.4	30.6
SV-1 Direct Read Flow Rate (CFM)		<40	66	36	30	60	40	35	38	56	39	47	51
SV-2 Manifold Vacuum ("H2O)		32.8	34.6	31.8	30.7	29.2	29.1	29.6	26.1	30.1	34.9	31.3	31.1
SV-2 Wellhead Vacuum ("H2O)		31.1	32.9	29.3	27.5	26.7	25.4	27.9	22.5	29.8	31.8	28.9	29.4
SV-2 Direct Read Flow Rate (CFM)		<40	59	37	40	62	23	78	30	21	45	58	71
SV-3 Manifold Vacuum ("H2O)		31.5	31.6	28.2	26.6	26.1	26.9	28.3	24.4	29.5	34.2	25.7	28.9
SV-3 Wellhead Vacuum ("H2O)		29.7	38.9	24.7	23.8	23.1	24	26	19	27.9	26.6	23.4	25.9
SV-3 Direct Read Flow Rate (CFM)		<40	77	45	40	61	27	89	38	19	36	42	35
SV-4 Manifold Vacuum ("H2O)		29.2	29.1	26.9	26.6	24.6	24.9	25.5	22.2	26.8	31.9	24.2	19.7
SV-4 Wellhead Vacuum ("H2O)		28.2	25.6	23.1	21.6	21.4	21.5	22.7	18.3	21.8	27.8	20.2	17.3
SV-4 Direct Read Flow Rate (CFM)		50	47	48	50	45	42	43	45	44	47	42	35
SV-5 Manifold Vacuum ("H2O)		34.8	33.5	29.4	28.7	26.1	26	25.8	19.2	28.9	33.6	27	20.8
SV-5 Wellhead Vacuum ("H2O)		34.4	31.3	26.9	25.1	23.4	23.4	22.7	17.5	26.5	30.6	22.4	19.7
SV-5 Direct Read Flow Rate (CFM)		<40	63	33	30	40	44	42	41	14	31	40	35
Pre KO Tank Vacuum ("H2O)		46	42.9	40.5	39.4	38.9	38.4	38.9	36	39.8	45	40.1	41.4
Before Filter ("H2O)		46	48	45	44	43	43	42	39	43	48	43	45
After Filter ("H2O)		54	56	53	50	52	51	50	48	53	56	52	55
Dilution Valve (% Open)		Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
Cumulative Direct Read Flow Rate (scfm)		210	312	199	190	268	176	287	192	154	198	229	227
K.O. Tank -Gallons Drained Meter Reading		0	0	0	0	0	0	Drained	Drained	Drained	Drained	Drained	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings												
Date	07/28/15	08/27/15	09/29/15	10/29/15	12/01/15	01/02/16	01/29/16	04/29/16	09/29/16	10/28/16	11/29/16	12/29/16
Well # / Unit #												
SV-1 Manifold Vacuum ("H2O)	9.6	8.5	8.1	7.5	7.8	10.3	9.7	System deactivated for rebound 2/18/16	12.8	11.6	11.8	12.3
SV-1 Wellhead Vacuum("H2O)	5.6	4.5	4.1	3.3	3.2	5.3	7.1		6	5.4	4.9	4.6
SV-1 Direct Read Flow Rate (CFM)	50	50	50	50	55	50	40		55	55	55	55
SV-2 Manifold Vacuum ("H2O)	9.6	8.6	8	7.4	8.3	8.5	11.2		12.3	11.3	11.8	12.3
SV-2 Wellhead Vacuum ("H2O)	5.7	4.7	4	3.4	3.5	4.3	6.8		5.8	5.1	3.8	5.4
SV-2 Direct Read Flow Rate (CFM)	50	50	50	50	50	50	50		55	55	55	55
SV-3 Manifold Vacuum ("H2O)	20.2	11.9	11.2	11.1	12.1	10.1	12.8		24	21.8	21.4	21.1
SV-3 Wellhead Vacuum ("H2O)	11.9	7.3	6.2	5.9	5.9	5.9	8.7		13.9	12.3	10.8	11
SV-3 Direct Read Flow Rate (CFM)	73	50	53	54	55	50	50		65	65	65	55
SV-4 Manifold Vacuum ("H2O)	28.8	-	-	15.2	-	-	10.5		-	18.3	-	-
SV-4 Wellhead Vacuum ("H2O)	16.1	-	-	8.5	-	-	6.3		-	9.6	-	-
SV-4 Direct Read Flow Rate (CFM)	89	-	-	70	-	-	55		-	60	-	-
SV-5 Manifold Vacuum ("H2O)	26.7	-	-	14.9	-	-	11.2		-	21.1	-	-
SV-5 Wellhead Vacuum ("H2O)	13	-	-	6.6	-	-	5.9		-	10.3	-	-
SV-5 Direct Read Flow Rate (CFM)	94	-	-	70	-	-	55		-	65	-	-
Pre KO Tank Vacuum ("H2O)	47.4	31.4	30.7	31	32.7	32.6	38.3		66.4	64.6	65	76.7
Before Filter ("H2O)	58	41	42	41	43	46	49		-	-	-	-
After Filter ("H2O)	64	47	49	49	52	54	56		74	66	-	89.7
Dilution Valve (% Open)	Closed	Closed	Closed	Closed	Closed	Closed	Closed		Closed	Closed	Closed	Closed
Cumulative Direct Read Flow Rate (scfm)	173	150	153	154	160	150	140		175	175	175	165
K.O. Tank -Gallons Drained Meter Reading	0	0	0	0	0	0	0		0	0	0	0

Project #: 1491

N.O. Tank -Gallons Drained Meter Reading

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 20 - Operation & Maintenance Cost vs. Time

Date	1/16	4/16	7/16	10/16	1/17	4/17
Period Cost	\$5,055.00	\$1,447.50	\$1,472.50	\$4,205.00	\$5,055.00	\$5,055.00
Cumulative Cost	\$112,746.00	\$114,193.50	\$115,666.00	\$119,871.00	\$124,926.00	\$129,981.00
Date						
Period Cost						
Cumulative Cost						

OM&M Costs

Quarterly Monitoring Report**Facility Name:** Former Agra CCC/USDA**Project #:** 1491**Section 21 - Permits**

Permit	Permit #	Original Application Date	Renewal Date
Class V Injection Well (BOW)		Granted 5/22/2009	
Flushmount Waiver		Granted 5/29/2009	
Landfarm		Granted 10/16/2008	
Notification of Soil Vapor Extraction		Recognition Letter Received 1/21/2009	

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 22 - System Operation Time (hours)

Date	SVE #1	A/S #1
	Start-up	Tested ASP
05/29/09	NR	NR
06/23/09	600.6	591.7
07/29/09	1445.6	1111.1
08/28/09	2121.5	1112.1
*9/23/2009	2211.2	1112.1
*10/28/2009	2221.1	1112.2
*11/27/2009	2221.1	1112.2
12/23/09	2221.2	1112.2
01/28/10	357.4	175.7
02/25/10	1030	507
03/23/10	1652.6	813
04/29/10	2539.1	1261.1
05/27/10	3216.6	1938.6
06/22/10	3834.5	2556.5
07/28/10	4699.3	3421.3
08/27/10	5420.7	3954.2
09/28/10	6189.1	3954.2
10/28/10	6905.8	4478.4
11/19/10	7438.3	5010.7
12/27/10	8348.7	5921.1
02/02/11	9236	6808.4
03/01/11	9884.1	7456.5
03/29/11	10552.7	7770.2
04/27/11	11249.8	8467.3
05/25/11	11921.6	9138.8
08/30/11	14246.5	9138.9
09/26/11	14894.1	9138.9
10/27/11	15638.1	9644.7
11/28/11	16405.5	10407.5
	Continued	
Total Oper. Hrs. for Rept. Period	--	--
Potential Oper. Hrs for Quarter	--	--

*Bad Hour meter SVE and ASP

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 22 - System Operation Time (hours)

Date	SVE #1	A/S #1
	Start-up	Tested ASP
12/29/11	17153.5	11155.5
01/26/12	17822.8	11824.4
02/21/12	18446.9	12448.6
03/29/12	19334.7	13336.4
04/26/12	20005.5	14000.7
05/31/12	20820.2	14642.9
06/28/12	21490.7	15313.4
07/31/12	22283.2	16105.7
08/31/12	23027.2	16849.7
09/27/12	23676.1	17498.6
10/30/12	24466.2	18288.7
12/01/12	25235.3	18288.9
12/28/12	25881.9	18288.9
02/01/13	26724.4	18671.6
02/28/13	27370.3	19317.5
03/26/13	27992.7	19939.9
04/26/13	28740.4	20687.2
05/30/13	29553.1	21499.8
06/27/13	30225	22171.8
08/01/13	31067.8	23014.5
08/30/13	31759.5	23706.2
09/27/13	32431.9	24378.7
10/29/13	33201.2	25148
12/02/13	34016.9	25963.7
12/28/13	34641	26587.8
01/31/14	35459.1	27405.9
02/26/14	36080.5	28027.3
03/27/14	36777	28723.8
04/30/14	37591.4	29538.2
05/27/14	38241	30187.8
06/26/14	38949.2	30896.1
08/01/14	39819	31765.9
08/28/14	40465.6	32412.5
09/29/14	41231.5	33178.4
10/29/14	41952.3	33899.2
11/26/14	42622.2	34569.1
12/31/14	43465.4	35412.3
01/23/15	44017.9	35964.8
	Continued	
Total Oper. Hrs. for Rept. Period	0	0
Potential Oper. Hrs for Quarter	0	0

*Bad Hour meter SVE and ASP

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 22 - System Operation Time (hours)

Date	SVE #1	A/S #1
2/27/2015	44851.5	36798.5
04/01/15	45642.3	37589.3
04/30/15	46342	38288.9
05/30/15	47058.7	39005.6
06/29/15	47778	39725
07/28/15	48478.1	40425.1
08/27/15	49194.4	41141.3
09/29/15	49986.8	41933.8
10/29/15	50709.4	42656.4
12/01/15	51501.7	43448.8
01/02/16	52267.4	44214.4
01/29/16	52916.9	44863.9
02/18/16	System deactivated for rebound	
04/29/16	NR	NR
09/29/16	53607.9	45554.9
10/28/16	54304.9	46251.8
11/29/16	55071	47017.9
12/29/16	55791.6	47738.5
01/30/17	56560.3	48507.2
02/23/17	57133.6	49080.5
04/03/17	58030.8	49977.7
04/27/17	58609.3	50556.2
Total Oper. Hrs. for Rept. Period	2049	2049
Potential Oper. Hrs for Quarter	2088	2088

*Bad Hour meter SVE and ASP

SB43

SB69

⊕GW4

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4 ⊕
SVE-4/AS-4

LDB5 ⊕
SVE-5/AS-5

SVE-3/AS-3
LDB3 ⊕

⊕GW2

GW3 ⊕

GW1 ⊕

LDB2 ⊕
SVE-2/AS-2

LDB1 ⊕
SVE-1/AS-1

MW-P ⊕

●SB49

⊕GW5

MW-J ⊕

- ⊕ MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊕ LDB LOCATION

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 1:
SITE BASE MAPGEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

GW5

MW-J

- ⊕ MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊕ LDB LOCATION
- [123.4] CARBON TETRACHLORIDE (ppb)

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 2a
CARBON TETRACHLORIDE IN GROUNDWATER
SAMPLED: 04/27/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

⊕GW4 2.9

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4 ⊕
SVE-4/AS-4

LDB5 ⊕
SVE-5/AS-5

SVE-3/AS-3
LDB3 ⊕

⊕GW2

GW3 ⊕
ND

5.6 GW1 ⊕

LDB2 ⊕
SVE-2/AS-2

LDB1 ⊕
SVE-1/AS-1

MW-P ⊕

●SB49

⊕GW5

MW-J ⊕

⊕ MONITORING WELL
● 2005 INVESTIGATION LOCATION
⊕ CCC/USDA MONITORING WELL
⊕ LDB LOCATION
123.4 CHLOROFORM (ppb)

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 2
CHLOROFORM IN GROUNDWATER
SAMPLED: 04/27/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

ND
⊕GW4

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4
SVE-4/AS-4LDB5
SVE-5/AS-5SVE-3/AS-3
LDB3

⊕GW2

GW3⊕

ND
⊕GW1

ND

LDB2
SVE-2/AS-2LDB1
SVE-1/AS-1

MW-P

●SB49

⊕GW5

MW-J

- ⊕ MONITORING WELL
 ● 2005 INVESTIGATION LOCATION
 ⊕ CCC/USDA MONITORING WELL
 ⊕ LDB LOCATION
 123.4 1,2 DCA (ppb)

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 4
1,2 DCA IN GROUNDWATER
SAMPLED: 04/27/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

APPENDIX 1

LABORATORY INFORMATION

Technical Report for

GeoCore, Inc.-Remediation

AGRA CCC/USDA, Agra, KS

1491

SGS Accutest Job Number: FA43525

Sampling Date: 04/27/17

Report to:

GeoCore, Inc
2775 Arnold Ave Suite D
Salina, KS 67401
jlaire@geocore.net; dcorl@geocore.net
ATTN: Dave Corl

Total number of pages in report: 16

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Client Service contact: Sue Bell 407-425-6700

Certifications: FL(E33310), LA(03051), XSE-10327, IL(200063), NC(573), NJ(FE002), NY(12022), SC(90038001)
DoD ELAP(L-A-B 12229), AZ(AZ0806), CA(2937), TX(T10470404), PA(68-03573), VA(460177),
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

GeoCore, Inc.-Remediation
ACRA CCC/USDA, Agra, KS
Project No: 1491

Job No: FA43525

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
FA43525-1	04/27/17	12:20 TD	04/29/17	AQ Ground Water	GW-1
FA43525-2	04/27/17	13:00 TD	04/29/17	AQ Ground Water	GW-3
FA43525-3	04/27/17	12:40 TD	04/29/17	AQ Ground Water	GW-4

Summary of Hits

Job Number: FA43525
Account: GeoCore, Inc.-Remediation
Project: ACRA CCC/USDA, Agra, KS
Collected: 04/27/17

Lab Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
FA43525-1	GW-1					
Carbon Tetrachloride ^a		48.9	1.0		ug/l	SW846 8260B
Chloroform ^a		5.6	1.0		ug/l	SW846 8260B
FA43525-2	GW-3					
Carbon Tetrachloride ^a		1100	20		ug/l	SW846 8260B
FA43525-3	GW-4					
Carbon Tetrachloride ^a		199	2.5		ug/l	SW846 8260B
Chloroform ^a		2.9	2.5		ug/l	SW846 8260B

(a) Sample was not preserved to a pH < 2.

Client Sample ID: GW-1
Lab Sample ID: FA43525-1
Matrix: AO - Ground Water
Method: SW846 8260B
Project: AGRA CCC/USDA, Agra, KS

Date Sampled: 04/27/17
Date Received: 04/29/17
Percent Solids: n/a

Sample Results

Run #1 a	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
Run #2	M95805.D	1	KM	05/02/17	n/a	n/a	VM4110

Purge Volume
Run #1 5.0 ml
Run #2

Report of Analysis

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	48.9	1.0	ug/l	
67-66-3	Chloroform	5.6	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%	
2037-26-5	Toluene-D8	101%		85-112%	
460-00-4	4-Bromofluorobenzene	98%		83-118%	

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.2

Client Sample ID:	GW-3	Date Sampled:	04/27/17
Lab Sample ID:	FA43525-2	Date Received:	04/29/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AGRA CCC/USDA, Agra, KS		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M85806.D	20	05/02/17	KM	n/a	VM4110
Run #2						

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	1100	20	ug/l	
67-66-3	Chloroform	ND	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	98%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%	
2037-26-5	Toluene-D8	102%		85-112%	
460-00-4	4-Bromofluorobenzene	97%		83-118%	

(a) Sample was not preserved to a pH < 2.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.3

Client Sample ID:	GW-4	Date Sampled:	04/27/17
Lab Sample ID:	FA43525-3	Date Received:	04/29/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AGRA CCC/USDA, Agra, KS		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M85807.D	2.5	05/02/17	KM	n/a	VM4110
Run #2						

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	199	2.5	ug/l	
67-66-3	Chloroform	2.9	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%	
2037-26-5	Toluene-D8	103%		85-112%	
460-00-4	4-Bromofluorobenzene	96%		83-118%	

(a) Sample was not preserved to a pH < 2.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA43525 CLIENT: CoGoate PROJECT: 14942 CCG/4504
 DATE/TIME RECEIVED: 04/29/17 21:30 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDX UPS ACCUTEST COURIER DELIVERY OTHER:
 AIRBILL NUMBER: 811 6216 9311

COOLER INFORMATION

☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
☐ TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

IR THERM ID: 41 CORR. FACTOR: 0.4
 OBSERVED TEMPS: 9.4 4.0
 CORRECTED TEMPS: 9.4 4.0 (USED FOR LIMS)

SAMPLE INFORMATION

☐ INCORRECT NUMBER OF CONTAINERS USED
☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
☐ INSUFFICIENT VOLUME FOR ANALYSIS
☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
☐ ID'S ON COC DO NOT MATCH LABEL
☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
☐ NO BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
☐ UNCLEAR FILTERING OR COMPOSTING INSTRUCTIONS
☐ SAMPLE CONTAINERS RECEIVED BROKEN
☐ SGS FIELD KITS NOT RECEIVED WITHIN 48 HOURS
☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
☐ 4% SOLIDS JAR NOT RECEIVED
☐ RESIDUAL CHLORINE PRESENT
☐ (APPLICABLE TO EPA 606 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES? 25-GRAM 5-GRAM
 NUMBER OF SGS FIELD KITS? 1
 NUMBER OF LAB FILTERED METALS? 1
 TEST STRIP LOT# PH 0-3 230315 pH 10-12 219813A LOT#
 OTHER (specify):
 SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: [Signature] 04/29/17 REVIEWER SIGNATURE/DATE: [Signature] 04/29/17
 NF 02/16 receipt confirmation 000116 .JPG

4.1 4

4.1 4

Method Blank Summary
Job Number: FA43525
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4110-MB	M95796.D	1	05/01/17	KM	n/a	n/a	VM4110

Method: SW846 8260B

The QC reported here applies to the following samples:

FA43525-1, FA43525-2, FA43525-3

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Limits			
1868-53-7	Dibromofluoromethane	103%			83-118%
17060-07-0	1,2-Dichloroethane-D4	106%			79-125%
2037-26-5	Toluene-D8	101%			85-112%
460-00-4	4-Bromofluorobenzene	99%			83-118%

Blank Spike Summary

Job Number: FA43525
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4110-BS	M95795.D	1	05/01/17	KM	n/a	n/a	VM4110

The QC reported here applies to the following samples:

FA43525-1, FA43525-2, FA43525-3

Method: SW846 8260B

CAS No.	Compound	Spike ug/l	BSP ug/l	%	Limits
56-23-5	Carbon Tetrachloride	25	22.1	88	76-136
67-66-3	Chloroform	25	22.5	90	80-124
107-06-2	1,2-Dichloroethane	25	22.4	90	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA43525
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA43525-2MS	M95812.D	20	05/02/17	KM	n/a	n/a	VM4110
FA43525-2MSD	M95813.D	20	05/02/17	KM	n/a	n/a	VM4110
FA43525-2 *	M95806.D	20	05/02/17	KM	n/a	n/a	VM4110

The QC reported here applies to the following samples:

FA43525-1, FA43525-2, FA43525-3

Method: SW846 8260B

CAS No.	Compound	FA43525-2 ug/l	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	1100	500	1400	60* b	500	1410	62* b	76-136/23
67-66-3	Chloroform	14.6	500	460	89	500	460	89	80-124/15
107-06-2	1,2-Dichloroethane	ND	500	452	90	500	454	91	75-125/14

CAS No.	Surrogate Recoveries	MS	MSD	FA43525-2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	97%	101%	79-125%
2037-26-5	Toluene-D8	100%	100%	102%	85-112%
460-00-4	4-Bromofluorobenzene	96%	98%	97%	83-118%

- (a) Sample was not preserved to a pH < 2.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Technical Report for

GeoCore, Inc.

Agra CCC/USDA

1491

SGS Accutest Job Number: JC42292

Sampling Date: 04/27/17

Report to:

GeoCore, Inc.
2775 Arnold Avenue P.O. Box 386
Salina, KS 67401
boenrich@geocore.net; jlaire@geocore.net;
dcorl@geocore.net
ATTN: Brad Oenrich

Total number of pages in report: 45

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10893), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0059), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B 12248)

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Sample Summary

GeoCore, Inc.
Agra CCC/USDA
Project No: 1491

Job No: JC42292

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
JC42292-1	04/27/17	10:30 TD	AIR	Ambient Air Grab	SVE-1
JC42292-2	04/27/17	10:40 TD	AIR	Ambient Air Grab	SVE-2
JC42292-3	04/27/17	10:50 TD	AIR	Ambient Air Grab	SVE-3
JC42292-4	04/27/17	11:10 TD	AIR	Ambient Air Grab	SVE-4
JC42292-5	04/27/17	10:20 TD	AIR	Ambient Air Grab	SVE-5
JC42292-6	04/27/17	11:00 TD	AIR	Ambient Air Grab	SVE-MANIFOLD

Summary of Hits

Job Number: JC42292
Account: GeoCore, Inc.
Project: Agra CCC/USDA
Collected: 04/27/17

Lab Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
JC42292-1	SVE-1					
Carbon tetrachloride		1.3	0.40	0.040	ppbv	TO-15
Carbon tetrachloride		8.2	2.5	0.25	ug/m3	TO-15
JC42292-2	SVE-2					
Carbon tetrachloride		0.57	0.40	0.040	ppbv	TO-15
Carbon tetrachloride		3.6	2.5	0.25	ug/m3	TO-15
JC42292-3	SVE-3					
Chloroform		0.32 J	0.40	0.062	ppbv	TO-15
Carbon tetrachloride		19.1	0.40	0.040	ppbv	TO-15
Chloroform		1.6 J	2.0	0.30	ug/m3	TO-15
Carbon tetrachloride		120	2.5	0.25	ug/m3	TO-15
JC42292-4	SVE-4					
Carbon tetrachloride		2.3	0.40	0.040	ppbv	TO-15
Carbon tetrachloride		14	2.5	0.25	ug/m3	TO-15
JC42292-5	SVE-5					
Chloroform		0.34 J	0.40	0.062	ppbv	TO-15
Carbon tetrachloride		46.8	0.40	0.040	ppbv	TO-15
Chloroform		1.7 J	2.0	0.30	ug/m3	TO-15
Carbon tetrachloride		294	2.5	0.25	ug/m3	TO-15
JC42292-6	SVE-MANIFOLD					
Carbon tetrachloride		5.4	0.40	0.040	ppbv	TO-15
Carbon tetrachloride		34	2.5	0.25	ug/m3	TO-15

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID: SVE-1
Lab Sample ID: JC42292-1
Matrix: AIR - Ambient Air Grab Summa ID: A678
Method: TO-15
Project: Agra CCC/USDA

Date Sampled: 04/27/17
Date Received: 04/29/17
Percent Solids: n/a

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 Run #2	3W59788.D 1	05/06/17	TCH	n/a	n/a	V3W2272

Initial Volume
Run #1 Run #2

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.40	0.062	ppbv	ND	ND	2.0	0.30	ug/m3
56-23-5	153.8	Carbon tetrachloride	1.3	0.40	0.040	ppbv	8.2	ND	2.5	0.25	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.40	0.053	ppbv	ND	ND	1.6	0.21	ug/m3
CAS No.		Surrogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4		4-Bromofluorobenzene	91%		65-128%						

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SVE-2	Date Sampled:	04/27/17
Lab Sample ID:	JC42292-2	Date Received:	04/29/17
Matrix:	AIR - Ambient Air Grab	Summa ID:	A606
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W59840.D	1.38	05/10/17	TCH	n/a	V3W2274
Run #2						

Initial Volume	
Run #1	276 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-86-3	119.4	Chloroform	ND	0.40	0.062	ppbv	ND	2.0	0.30	ug/m3	
56-23-5	153.8	Carbon tetrachloride	0.57	0.40	0.040	ppbv	3.6	2.5	0.25	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.40	0.053	ppbv	ND	1.6	0.21	ue/m3	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SVE-3	Date Sampled:	04/27/17
Lab Sample ID:	JC42292-3	Date Received:	04/29/17
Matrix:	AIR - Ambient Air Grab	Summa ID:	M429
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W59841.D	1.43	05/10/17	TCH	n/a	V3W2274
Run #2						

Initial Volume	
Run #1	286 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	0.32	0.40	0.062	ppbv	J	1.6	2.0	0.30	ug/m3
56-23-5	153.8	Carbon tetrachloride	19.1	0.40	0.040	ppbv	120	2.5	0.25	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.40	0.053	ppbv	ND	1.6	0.21	ug/m3	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.4

Client Sample ID:	SVE-4	Date Sampled:	04/27/17
Lab Sample ID:	JC42292-4	Date Received:	04/29/17
Matrix:	AIR - Ambient Air Grab	Summa ID:	A406
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		
File ID	DF	Prep Date	Analytical Batch
Run #1	3W59842.D	1.48	V3W2274
Run #2		n/a	

Initial Volume	
Run #1	296 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.40	0.062	ppbv	ND	2.0	0.30	0.30	ug/m3
56-23-5	153.8	Carbon tetrachloride	2.3	0.40	0.040	ppbv	14	2.5	0.25	0.25	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.40	0.053	ppbv	ND	1.6	0.21	0.21	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	93%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.5

Client Sample ID:	SVE-5	Date Sampled:	04/27/17
Lab Sample ID:	JC42292-5	Date Received:	04/29/17
Matrix:	AIR - Ambient Air Grab	Summa ID:	A599
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		
File ID	DF	Prep Date	Analytical Batch
Run #1	3W59843.D	1.75	V3W2274
Run #2		n/a	

Initial Volume	
Run #1	350 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	0.34	0.40	0.062	ppbv	J	1.7	2.0	0.30	ug/m3
56-23-5	153.8	Carbon tetrachloride	46.8	0.40	0.040	ppbv	294	2.5	0.25	0.25	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.40	0.053	ppbv	ND	1.6	0.21	0.21	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	96%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.6

Client Sample ID: SVE-MANIFOLD
Lab Sample ID: JC42292-6
Matrix: AIR - Ambient Air Grab Summa ID: A420
Method: TO-15
Project: Agra CCC/USDA

Date Sampled: 04/27/17
Date Received: 04/29/17
Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W59844.D	1.55	05/10/17	TCH	n/a	n/a	V3W2Z74
Run #2							

Run #	Initial Volume
Run #1	310 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.40	0.062	ppbv	ND	2.0	0.30	ug/m3	
56-23-5	153.8	Carbon tetrachloride	5.4	0.40	0.040	ppbv	34	2.5	0.25	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.40	0.053	ppbv	ND	1.6	0.21	ug/m3	
CAS No.		Surrogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4		4-Bromofluorobenzene	94%		65-128%						

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

MDL = Method Detection Limit
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS

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New Jersey

Section 4

4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

Summa Canister and Flow Controller Log

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA
Received: 04/29/17

ACCUTEST
New Jersey

Section 5

4.2

4

SUMMA CANISTERS											
Shipping				Receiving							
Summa ID	L	Vac "Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac "Hg	Pres Final Dil
											psig Fact
A678	1	29.4	04/21/17	RC	CP9112	3W59324.D	JC42292-1	05/02/17	PC	3	1
A606	1	29.4	04/21/17	RC	CP9117	3W59401.D	JC42292-2	05/02/17	PC	2.5	1
M429	1	29.4	04/21/17	RC	CP9121	3W59427.D	JC42292-3	05/02/17	PC	3	1
A406	1	29.4	04/21/17	RC	CP9125	5W23847.D	JC42292-4	05/02/17	PC	2.5	1
A599	1	29.4	04/21/17	RC	CP9125	5W23847.D	JC42292-5	05/02/17	PC	4	1
A420	1	29.4	04/21/17	RC	CP9121	3W59427.D	JC42292-6	05/02/17	PC	1.5	1

SGS Accutest Bottle Order(s):
MP1_041917_71

Prep Date 04/21/17
Room Temp(F) 70
Bar Pres "Hg 29.92

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2272-MB	3W59772.D	1	05/05/17	TCH	n/a	n/a	V3W2272

The QC reported here applies to the following samples:

Method: TO-15

JC42292-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.031	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	ND	0.81	ug/m3
CAS No.	Surrogate Recoveries	Limits							
460-00-4	4-Bromofluorobenzene	91%	65-128%						

Method Blank Summary

Page 1 of 1

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2274-MB	3W59823.D	1	05/09/17	TCH	n/a	n/a	V3W2274

The QC reported here applies to the following samples:

Method: TO-15

JC42292-2, JC42292-3, JC42292-4, JC42292-5, JC42292-6

5.1.2

5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.031	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	ND	0.81	ug/m3
CAS No.	Surrogate Recoveries	Limits							
460-00-4	4-Bromofluorobenzene	91%						65-128%	

Method Blank Summary

Page 1 of 1

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2255-MB	3W59300.D	1	04/10/17	TCH	n/a	n/a	V3W2255

The QC reported here applies to the following samples:

Method: TO-15

V3W2255-SCC

5.1.3

5

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	ND	0.81	ug/m3
CAS No.	Surrogate Recoveries	Limits							
460-00-4	4-Bromofluorobenzene	92%						65-128%	
CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q				
	Total TIC, Volatile		0	ppbv					

Method Blank Summary

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2257-MB	3W59383.D	1	04/13/17	TCH	n/a	n/a	V3W2257

5.1.4

5

The QC reported here applies to the following samples: Method: TO-15

V3W2257-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2258-MB	3W59407.D	1	04/14/17	TCH	n/a	n/a	V3W2258

5.1.5

5

The QC reported here applies to the following samples: Method: TO-15

V3W2258-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	65-128%

Method Blank Summary

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W943-MB2	5W23832.D	1	04/20/17	LM	n/a	n/a	V5W943

5.1.6 5

The QC reported here applies to the following samples:

Method: TO-15

V5W943-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	ND	0.81	ug/m3
CAS No.	Surrogate Recoveries	Limits							
460-00-4	4-Bromofluorobenzene	105%	Limits						
			65-128%						

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2272-BS	3W59769.D	1	05/05/17	TCH	n/a	n/a	V3W2272
V3W2272-BSD	3W59770.D	1	05/05/17	TCH	n/a	n/a	V3W2272

5.2.1 5

The QC reported here applies to the following samples:

Method: TO-15

JC42292-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	10.1	101	9.3	93	8	70-130/30
56-23-5	Carbon tetrachloride	10	10.8	108	9.9	99	9	70-130/30
107-06-2	1,2-Dichloroethane	10	10.4	104	9.5	95	9	70-130/30
CAS No.	Surrogate Recoveries	BSP	BSD	Limits				
460-00-4	4-Bromofluorobenzene	99%	101%	65-128%				

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: JC42292

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2274-BS	3W59820.D	1	05/09/17	TCH	n/a	n/a	V3W2274
V3W2274-BSD	3W59821.D	1	05/09/17	TCH	n/a	n/a	V3W2274

5.2.3

5

The QC reported here applies to the following samples:

Method: TO-15

JC42292-2, JC42292-3, JC42292-4, JC42292-5, JC42292-6

CAS No.	Compound	Spike ppbv	BSP ppbv	%	BSP	BSD	%	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	9.0	90	8.3	83	8	8	70-130/30
56-23-5	Carbon tetrachloride	10	9.7	97	9.0	90	7	7	70-130/30
107-06-2	1,2-Dichloroethane	10	9.2	92	8.6	86	7	7	70-130/30
CAS No.	Surrogate Recoveries	BSP	BSD		Limits				
460-00-4	4-Bromofluorobenzene	100%	100%		100%				65-128%

* = Outside of Control Limits.

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JC42292

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: JC42292

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2255-BS	3W59297.D	1	04/10/17	TCH	n/a	n/a	V3W2255
V3W2255-BSD	3W59298.D	1	04/10/17	TCH	n/a	n/a	V3W2255

5.2.3

5

The QC reported here applies to the following samples:

Method: TO-15

V3W2255-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	%	BSP	BSD	%	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	9.8	98	9.6	96	2	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.2	102	10.1	101	1	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.5	105	10.2	102	3	3	70-130/30
CAS No.	Surrogate Recoveries	BSP	BSD		Limits				
460-00-4	4-Bromofluorobenzene	104%	108%		108%				65-128%

* = Outside of Control Limits.

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JC42292

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Blank Spike/Blank Spike Duplicate Summary

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Job Number: JC42292

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2257-BS	3W59380.D	1	04/13/17	TCH	n/a	n/a	V3W2257
V3W2257-BSD	3W59381.D	1	04/13/17	TCH	n/a	n/a	V3W2257

5.2.4

The QC reported here applies to the following samples:

Method: TO-15

V3W2257-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	%	BSP %	BSD ppbv	%	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	10.5	105	10	10	100	100	5	70-130/30
56-23-5	Carbon tetrachloride	10	10.9	109	10.5	10.5	105	105	4	70-130/30
107-06-2	1,2-Dichloroethane	10	11.4	114	10.7	10.7	107	107	6	70-130/30
CAS No.	Surrogate Recoveries	BSP	BSD		Limits					
460-00-4	4-Bromofluorobenzene	108%	108%		65-128%					

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: JC42292

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2258-BS	3W59404.D	1	04/14/17	TCH	n/a	n/a	V3W2258
V3W2258-BSD	3W59405.D	1	04/14/17	TCH	n/a	n/a	V3W2258

5.2.5

The QC reported here applies to the following samples:

Method: TO-15

V3W2258-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	%	BSP %	BSD ppbv	%	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	10.0	100	9.9	9.9	99	99	1	70-130/30
56-23-5	Carbon tetrachloride	10	10.4	104	10.2	10.2	102	102	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.9	109	10.7	10.7	107	107	2	70-130/30
CAS No.	Surrogate Recoveries	BSP	BSD		Limits					
460-00-4	4-Bromofluorobenzene	108%	108%		65-128%					

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W943-BS2	5W23829.D	1	04/20/17	LM	n/a	n/a	V5W943
V5W943-BSD2	5W23830.D	1	04/20/17	LM	n/a	n/a	V5W943

5.2.6

5

The QC reported here applies to the following samples:

Method: TO-15

V5W943-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-86-3	Chloroform	10	9.6	96	10.3	103	7	70-130/30
56-23-5	Carbon tetrachloride	10	10.0	100	10.7	107	7	70-130/30
107-06-2	1,2-Dichloroethane	10	10.2	102	10.7	107	5	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

* = Outside of Control Limits.

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JC42292

Duplicate Summary

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Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC42649-1DUP	3W59777.D	1	05/05/17	TCH	n/a	n/a	V3W2272
JC42649-1	3W59776.D	1	05/05/17	TCH	n/a	n/a	V3W2272

5.3.1

5

The QC reported here applies to the following samples:

Method: TO-15

JC42292-1

CAS No.	Compound	JC42649-1 ppbv	DUP Q	RPD	Limits
67-86-3	Chloroform	ND	ND	nc	12
56-23-5	Carbon tetrachloride	ND	ND	nc	10
107-06-2	1,2-Dichloroethane	ND	ND	nc	20

CAS No.	Surrogate Recoveries	DUP	JC42649-1 %	Limits
460-00-4	4-Bromofluorobenzene	94%	89%	65-128%

* = Outside of Control Limits.

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Duplicate Summary

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

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Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC42366-1DUP	3W59836.D	1	05/09/17	TCH	n/a	n/a	V3W2274
JC42366-1	3W59835.D	1	05/09/17	TCH	n/a	n/a	V3W2274

The QC reported here applies to the following samples:

JC42292-2, JC42292-3, JC42292-4, JC42292-5, JC42292-6

Method: TO-15

CAS No.	Compound	JC42366-1 ppbv	Q	RPD	Limits
67-86-3	Chloroform	6.7	6.3	6	12
56-23-5	Carbon tetrachloride	ND	ND	nc	10
107-06-2	1,2-Dichloroethane	ND	ND	nc	20
CAS No.	Surrogate Recoveries	DUP	JC42366-1	Limits	
460-00-4	4-Bromofluorobenzene	95%	94%	65-128%	

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

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Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2255-SCC	3W59324.D	1	04/11/17	TCH	n/a	n/a	V3W2255

The QC reported here (Summa A678) applies to the following samples:

Batch CP9112 cleaned 04/05/17: JC42292-1(A678)

Method: TO-15

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-86-3	Chloroform	ND	0.20	0.017	ppbv	ppbv	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ppbv	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ppbv	ND	0.81	ug/m3
CAS No.	Surrogate Recoveries	Limits							
460-00-4	4-Bromofluorobenzene	95%					65-128%		

Summa Cleaning Certification

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Summa Cleaning Certification

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2257-SCC	3W59401.D	1	04/14/17	TCH	n/a	n/a	V3W2257

The QC reported here (Summa A606) applies to the following samples: Method: TO-15

Batch CP9117 cleaned 04/07/17: JC42292-2(A606)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	93%

5.4.2

5

5.4.3

5

Summa Cleaning Certification

Job Number: JC42292

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

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Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W943-SCC	5W23847.D	1	04/21/17	LM	n/a	n/a	V5W943

The QC reported here (Summa A687) applies to the following samples:

Batch CP9125 cleaned 04/12/17. JC42292-4(A406). JC42292-5(A599)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.017	ppbv	ND	0.98		ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv	ND	1.3		ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv	ND	0.81		ug/m3

CAS No. Surrogate Recoveries

460-00-4	4-Bromofluorobenzene	101%	Limits
			65-128%

5.4.4

5

Instrument Performance Check (BFB)

Job Number: JC42292

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

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Sample:	V3W2246-BFB	Injection Date:	03/29/17
Lab File ID:	3W59049.D	Injection Time:	11:16
Instrument ID:	GCM53W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	17594	12.8	Pass
75	30.0 - 66.0% of mass 95	55186	40.1	Pass
95	Base peak. 100% relative abundance	137576	100.0	Pass
96	5.0 - 9.0% of mass 95	9301	6.76	Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) a
174	50.0 - 120.0% of mass 95	147133	106.9	Pass
175	4.0 - 9.01% of mass 174	11331	8.24	(7.70) a
176	93.0 - 101.0% of mass 174	144165	104.8	(98.0) a
177	5.0 - 9.0% of mass 176	9360	6.80	(6.49) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2246-1C2246	3W59050.D	03/29/17	12:06	00:50	Initial cal 0.5
V3W2246-1C2246	3W59051.D	03/29/17	12:46	01:30	Initial cal 0.2
ZZZZZZ	3W59051A.D	03/29/17	12:46	01:30	(unrelated sample)
ZZZZZZ	3W59052A.D	03/29/17	13:24	02:08	(unrelated sample)
V3W2246-1C2246	3W59052.D	03/29/17	13:24	02:08	Initial cal 0.1
V3W2246-1C2246	3W59053.D	03/29/17	14:02	02:46	Initial cal 0.04
ZZZZZZ	3W59053A.D	03/29/17	14:02	02:46	(unrelated sample)
V3W2246-1C2246	3W59054.D	03/29/17	14:41	03:25	Initial cal 5
V3W2246-1C2246	3W59055.D	03/29/17	15:21	04:05	Initial cal 10
V3W2246-1C2246	3W59056.D	03/29/17	16:01	04:45	Initial cal 20
V3W2246-1C2246	3W59058.D	03/29/17	17:24	06:08	Initial cal 40
V3W2246-1CV2246	3W59061.D	03/29/17	19:28	08:12	Initial cal verification 10

5.5.1

5

Instrument Performance Check (BFB)

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

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Sample:	V3W2255-BFB	Injection Date:	04/10/17
Lab File ID:	3W59295.D	Injection Time:	08:58
Instrument ID:	GCM53W		

5.5.2

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	12670	13.3	Pass
75	30.0 - 66.0% of mass 95	39618	41.4	Pass
95	Base peak, 100% relative abundance	95616	100.0	Pass
96	5.0 - 9.0% of mass 95	6540	6.84	Pass
173	Less than 2.0% of mass 174	0	(0.00) a	Pass
174	50.0 - 120.0% of mass 95	107861	112.8	Pass
175	4.0 - 9.01% of mass 174	8174	8.55	Pass
176	93.0 - 101.0% of mass 174	106184	111.1	Pass
177	5.0 - 9.0% of mass 176	6947	7.27	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2255-CC2246	3W59296.D	04/10/17	09:38	00:40	Continuing cal 10
V3W2255-BS	3W59297.D	04/10/17	10:18	01:20	Blank Spike
V3W2255-BSD	3W59298.D	04/10/17	10:59	02:01	Blank Spike Duplicate
V3W2255-MB	3W59300.D	04/10/17	12:24	03:26	Method Blank
ZZZZZZ	3W59301.D	04/10/17	13:14	04:16	(unrelated sample)
ZZZZZZ	3W59302.D	04/10/17	13:54	04:56	(unrelated sample)
ZZZZZZ	3W59303.D	04/10/17	14:35	05:37	(unrelated sample)
ZZZZZZ	3W59304.D	04/10/17	15:17	06:19	(unrelated sample)
ZZZZZZ	3W59305.D	04/10/17	15:57	06:59	(unrelated sample)
ZZZZZZ	3W59306.D	04/10/17	16:37	07:39	(unrelated sample)
ZZZZZZ	3W59307.D	04/10/17	17:17	08:19	(unrelated sample)
V3W2255-SCC	3W59309.D	04/10/17	18:37	09:39	Summa Cleaning Certification
JC39940-5	3W59310.D	04/10/17	19:19	10:21	(used for QC only; not part of job JC42292)
JC39940-5DUP	3W59311.D	04/10/17	20:02	11:04	Duplicate
ZZZZZZ	3W59312.D	04/10/17	20:41	11:43	(unrelated sample)
ZZZZZZ	3W59313.D	04/10/17	21:19	12:21	(unrelated sample)
ZZZZZZ	3W59316.D	04/10/17	23:18	14:20	(unrelated sample)
ZZZZZZ	3W59318.D	04/11/17	00:38	15:40	(unrelated sample)
ZZZZZZ	3W59320.D	04/11/17	02:02	17:04	(unrelated sample)
ZZZZZZ	3W59321.D	04/11/17	02:43	17:45	(unrelated sample)
ZZZZZZ	3W59322.D	04/11/17	03:25	18:27	(unrelated sample)
V3W2255-SCC	3W59324.D	04/11/17	04:45	19:47	Summa Cleaning Certification

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Instrument Performance Check (BFB)

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

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Sample:	V3W2257-BFB	Injection Date:	04/13/17
Lab File ID:	3W59378.D	Injection Time:	08:37
Instrument ID:	GCM53W		

5.5.3

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	12388	13.9	Pass
75	30.0 - 66.0% of mass 95	37845	42.6	Pass
95	Base peak, 100% relative abundance	88877	100.0	Pass
96	5.0 - 9.0% of mass 95	5907	6.65	Pass
173	Less than 2.0% of mass 174	0	(0.00) a	Pass
174	50.0 - 120.0% of mass 95	99706	112.2	Pass
175	4.0 - 9.01% of mass 174	7729	8.70	Pass
176	93.0 - 101.0% of mass 174	98080	110.4	Pass
177	5.0 - 9.0% of mass 176	6597	7.42	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2257-CC2246	3W59379.D	04/13/17	09:31	00:54	Continuing cal 10
V3W2257-BS	3W59380.D	04/13/17	10:19	01:42	Blank Spike
V3W2257-BSD	3W59381.D	04/13/17	10:59	02:22	Blank Spike Duplicate
V3W2257-MB	3W59383.D	04/13/17	12:38	04:01	Method Blank
ZZZZZZ	3W59384.D	04/13/17	13:31	04:54	(unrelated sample)
ZZZZZZ	3W59385.D	04/13/17	14:15	05:38	(unrelated sample)
ZZZZZZ	3W59386.D	04/13/17	14:59	06:22	(unrelated sample)
ZZZZZZ	3W59387.D	04/13/17	15:45	07:08	(unrelated sample)
ZZZZZZ	3W59388.D	04/13/17	16:29	07:52	(unrelated sample)
ZZZZZZ	3W59389.D	04/13/17	17:08	08:31	(unrelated sample)
JC40114-1	3W59390.D	04/13/17	17:55	09:18	(used for QC only; not part of job JC42292)
JC40114-1DUP	3W59391.D	04/13/17	18:34	09:57	Duplicate
ZZZZZZ	3W59392.D	04/13/17	19:14	10:37	(unrelated sample)
V3W2257-CC2246	3W59393.D	04/13/17	19:53	11:16	Continuing cal 10
V3W2257-SCC	3W59395.D	04/13/17	21:15	12:38	Summa Cleaning Certification
ZZZZZZ	3W59396.D	04/13/17	22:00	13:23	(unrelated sample)
ZZZZZZ	3W59397.D	04/13/17	22:39	14:02	(unrelated sample)
ZZZZZZ	3W59398.D	04/13/17	23:17	14:40	(unrelated sample)
ZZZZZZ	3W59399.D	04/13/17	23:58	15:21	(unrelated sample)
ZZZZZZ	3W59400.D	04/14/17	00:41	16:04	(unrelated sample)
V3W2257-SCC	3W59401.D	04/14/17	01:21	16:44	Summa Cleaning Certification

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Instrument Performance Check (BFB)

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

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Sample: V3W2258-BFB
Lab File ID: 3W59402.D
Instrument ID: GCM53W
Injection Date: 04/14/17
Injection Time: 08:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	13936	14.0	Pass
75	30.0 - 66.0% of mass 95	41658	41.9	Pass
95	Base peak, 100% relative abundance	99373	100.0	Pass
96	5.0 - 9.0% of mass 95	6582	6.62	Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) ^a
174	50.0 - 120.0% of mass 95	114546	115.3	Pass
175	4.0 - 9.01% of mass 174	8496	8.55	(7.42) ^a
176	93.0 - 101.0% of mass 174	110976	111.7	(96.9) ^a
177	5.0 - 9.0% of mass 176	7369	7.42	(6.64) ^b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2258-CC2246	3W59403.D	04/14/17	09:33	00:49	Continuing cal 10
V3W2258-BS	3W59404.D	04/14/17	10:14	01:30	Blank Spike
V3W2258-BSD	3W59405.D	04/14/17	10:53	02:09	Blank Spike Duplicate
V3W2258-MB	3W59407.D	04/14/17	12:17	03:33	Method Blank
ZZZZZZ	3W59408.D	04/14/17	13:10	04:26	(unrelated sample)
ZZZZZZ	3W59409.D	04/14/17	13:51	05:07	(unrelated sample)
ZZZZZZ	3W59410.D	04/14/17	14:32	05:48	(unrelated sample)
ZZZZZZ	3W59411.D	04/14/17	15:11	06:27	(unrelated sample)
ZZZZZZ	3W59412.D	04/14/17	15:51	07:07	(unrelated sample)
ZZZZZZ	3W59413.D	04/14/17	16:32	07:48	(unrelated sample)
V3W2258-CC2246	3W59415.D	04/14/17	17:50	09:06	Continuing cal 10
V3W2258-SCC	3W59417.D	04/14/17	19:11	10:27	Summa Cleaning Certification
V3W2258-SCC	3W59418.D	04/14/17	19:54	11:10	Summa Cleaning Certification
ZZZZZZ	3W59419.D	04/14/17	20:35	11:51	(unrelated sample)
ZZZZZZ	3W59420.D	04/14/17	21:15	12:31	(unrelated sample)
JC40418-1	3W59421.D	04/14/17	21:58	13:14	(used for QC only; not part of job JC42292)
JC40418-1DUP	3W59422.D	04/14/17	22:40	13:56	Duplicate
ZZZZZZ	3W59423.D	04/14/17	23:22	14:38	(unrelated sample)
ZZZZZZ	3W59424.D	04/15/17	00:03	15:19	(unrelated sample)
ZZZZZZ	3W59425.D	04/15/17	00:43	15:59	(unrelated sample)
ZZZZZZ	3W59426.D	04/15/17	01:24	16:40	(unrelated sample)
V3W2258-SCC	3W59427.D	04/15/17	02:06	17:22	Summa Cleaning Certification
ZZZZZZ	3W59428.D	04/15/17	02:46	18:02	(unrelated sample)
ZZZZZZ	3W59429.D	04/15/17	03:27	18:43	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V3W2258-BFB
Lab File ID: 3W59402.D
Instrument ID: GCM53W
Injection Date: 04/14/17
Injection Time: 08:44

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W59430.D	04/15/17	04:10	19:26	(unrelated sample)
ZZZZZZ	3W59431.D	04/15/17	04:50	20:06	(unrelated sample)

5.5.4

5

5.5.4

5

Instrument Performance Check (BFB)

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Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V3W2264-BFB
Lab File ID: 3W59577.D
Instrument ID: GCM53W
Injection Date: 04/25/17
Injection Time: 09:59

5.5.5

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	19333	15.2	Pass
75	30.0 - 66.0% of mass 95	54648	43.0	Pass
95	Base peak, 100% relative abundance	127141	100.0	Pass
96	5.0 - 9.0% of mass 95	8466	6.66	Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) a
174	50.0 - 120.0% of mass 95	120552	94.8	Pass
175	4.0 - 9.01% of mass 174	9319	7.33	(7.73) a
176	93.0 - 101.0% of mass 174	117474	92.4	(97.4) a
177	5.0 - 9.0% of mass 176	7809	6.14	(6.65) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2264-IC2264	3W59578.D	04/25/17	10:40	00:41	Initial cal 0.04
V3W2264-IC2264	3W59579.D	04/25/17	11:18	01:19	Initial cal 0.1
V3W2264-IC2264	3W59580.D	04/25/17	11:57	01:58	Initial cal 0.2
V3W2264-IC2264	3W59581.D	04/25/17	12:38	02:39	Initial cal 0.5
V3W2264-IC2264	3W59582.D	04/25/17	13:17	03:18	Initial cal 5
V3W2264-IC2264	3W59583.D	04/25/17	13:58	03:59	Initial cal 10
V3W2264-IC2264	3W59584.D	04/25/17	14:39	04:40	Initial cal 20
V3W2264-IC2264	3W59586.D	04/25/17	16:04	06:05	Initial cal 40
V3W2264-IC2264	3W59589.D	04/25/17	18:06	08:07	Initial cal verification 10

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Instrument Performance Check (BFB)

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Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V3W2272-BFB
Lab File ID: 3W59767.D
Instrument ID: GCM53W
Injection Date: 05/05/17
Injection Time: 08:34

5.5.6

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	13920	15.5	Pass
75	30.0 - 66.0% of mass 95	38936	43.5	Pass
95	Base peak, 100% relative abundance	89557	100.0	Pass
96	5.0 - 9.0% of mass 95	5929	6.62	Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) a
174	50.0 - 120.0% of mass 95	85445	95.4	Pass
175	4.0 - 9.01% of mass 174	6448	7.20	(7.55) a
176	93.0 - 101.0% of mass 174	83384	93.1	(97.6) a
177	5.0 - 9.0% of mass 176	5414	6.05	(6.49) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2272-CC2264	3W59768.D	05/05/17	09:12	00:38	Continuing cal 10
V3W2272-BS	3W59769.D	05/05/17	09:54	01:20	Blank Spike
V3W2272-BSD	3W59770.D	05/05/17	10:34	02:00	Blank Spike Duplicate
V3W2272-MB	3W59772.D	05/05/17	12:51	04:17	Method Blank
ZZZZZZ	3W59774.D	05/05/17	14:23	05:49	(unrelated sample)
ZZZZZZ	3W59775.D	05/05/17	15:06	06:32	(unrelated sample)
JC42649-1	3W59776.D	05/05/17	15:48	07:14	(used for QC only; not part of job JC42292)
ZZZZZZ	3W59777.D	05/05/17	16:30	07:56	Duplicate
ZZZZZZ	3W59778.D	05/05/17	18:08	09:34	(unrelated sample)
ZZZZZZ	3W59779.D	05/05/17	18:48	10:14	(unrelated sample)
ZZZZZZ	3W59781.D	05/05/17	20:13	11:39	(unrelated sample)
ZZZZZZ	3W59782.D	05/05/17	20:53	12:19	(unrelated sample)
ZZZZZZ	3W59784.D	05/05/17	22:15	13:41	(unrelated sample)
ZZZZZZ	3W59785.D	05/05/17	22:54	14:20	(unrelated sample)
ZZZZZZ	3W59786.D	05/05/17	23:35	15:01	(unrelated sample)
V3W2272-SCC	3W59787.D	05/06/17	00:18	15:44	Summa Cleaning Certification
JC42292-1	3W59788.D	05/06/17	00:59	16:25	SVE-1

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Instrument Performance Check (BFB)

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Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V3W2274-BFB
Lab File ID: 3W59818.D
Instrument ID: GCMS3W
Injection Date: 05/09/17
Injection Time: 08:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	11397	15.3	Pass
75	30.0 - 66.0% of mass 95	31842	42.8	Pass
95	Base peak, 100% relative abundance	74426	100.0	Pass
96	5.0 - 9.0% of mass 95	4981	6.69	Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) a
174	50.0 - 120.0% of mass 95	73600	98.9	Pass
175	4.0 - 9.0% of mass 174	5485	7.37	(7.45) a
176	93.0 - 101.0% of mass 174	71442	96.0	(97.1) a
177	5.0 - 9.0% of mass 176	4752	6.38	(6.65) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2274-CC2264	3W59819.D	05/09/17	09:47	00:56	Continuing cal 10
V3W2274-BS	3W59820.D	05/09/17	10:26	01:35	Blank Spike
V3W2274-BSD	3W59821.D	05/09/17	11:05	02:14	Blank Spike Duplicate
V3W2274-MB	3W59823.D	05/09/17	12:32	03:41	Method Blank
ZZZZZZ	3W59824.D	05/09/17	13:18	04:27	(unrelated sample)
ZZZZZZ	3W59825.D	05/09/17	14:45	05:54	(unrelated sample)
ZZZZZZ	3W59826.D	05/09/17	15:23	06:32	(unrelated sample)
ZZZZZZ	3W59827.D	05/09/17	16:01	07:10	(unrelated sample)
ZZZZZZ	3W59828.D	05/09/17	16:39	07:48	(unrelated sample)
ZZZZZZ	3W59829.D	05/09/17	17:17	08:26	(unrelated sample)
ZZZZZZ	3W59830.D	05/09/17	17:57	09:06	(unrelated sample)
ZZZZZZ	3W59831.D	05/09/17	18:35	09:44	(unrelated sample)
ZZZZZZ	3W59832.D	05/09/17	19:15	10:24	(unrelated sample)
ZZZZZZ	3W59833.D	05/09/17	19:54	11:03	(unrelated sample)
V3W2274-SCC	3W59834.D	05/09/17	20:36	11:45	Summa Cleaning Certification
JC42366-1	3W59835.D	05/09/17	21:15	12:24	(used for QC only; not part of job JC42292)
JC42366-1DUP	3W59836.D	05/09/17	21:55	13:04	Duplicate
ZZZZZZ	3W59839.D	05/09/17	23:36	15:05	(unrelated sample)
JC42292-2	3W59840.D	05/10/17	00:36	15:45	SVE-2
JC42292-3	3W59841.D	05/10/17	01:17	16:26	SVE-3
JC42292-4	3W59842.D	05/10/17	01:57	17:06	SVE-4
JC42292-5	3W59843.D	05/10/17	02:40	17:49	SVE-5
JC42292-6	3W59844.D	05/10/17	03:21	18:30	SVE-MANIFOLD
V3W2274-SCC	3W59845.D	05/10/17	04:02	19:11	Summa Cleaning Certification

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W942-IC942	5W23796.D	04/18/17	14:25	00:51	Initial cal 0.04
V5W942-IC942	5W23797.D	04/18/17	15:10	01:36	Initial cal 0.1
V5W942-IC942	5W23798.D	04/18/17	15:57	02:23	Initial cal 0.2
V5W942-IC942	5W23799.D	04/18/17	16:42	03:08	Initial cal 0.5
V5W942-IC942	5W23800.D	04/18/17	17:26	03:52	Initial cal 1
V5W942-IC942	5W23801.D	04/18/17	18:12	04:38	Initial cal 10
V5W942-IC942	5W23802.D	04/18/17	19:05	05:31	Initial cal 20
V5W942-IC942	5W23803.D	04/18/17	19:54	06:20	Initial cal 40
V5W942-ICV942	5W23808.D	04/19/17	09:51	20:17	Initial cal verification 10

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

5.5.7

5

5.5.8

5

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V5W942-BFB
Lab File ID: 5W23795.D
Instrument ID: GCMS5W
Injection Date: 04/18/17
Injection Time: 13:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	19440	13.5	Pass
75	30.0 - 66.0% of mass 95	62211	43.2	Pass
95	Base peak, 100% relative abundance	143915	100.0	Pass
96	5.0 - 9.0% of mass 95	9317	6.47	Pass
173	Less than 2.0% of mass 174	997	0.69	(0.65) a
174	50.0 - 120.0% of mass 95	152619	106.0	Pass
175	4.0 - 9.0% of mass 174	11072	7.69	(7.25) a
176	93.0 - 101.0% of mass 174	148715	103.3	(97.4) a
177	5.0 - 9.0% of mass 176	9869	6.86	(6.64) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V5W943-BFB2
Lab File ID: 5W23826.D
Instrument ID: GCM55W
Injection Date: 04/20/17
Injection Time: 09:01

5.5.9

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	17952	13.8	Pass
75	30.0 - 66.0% of mass 95	57253	44.1	Pass
95	Base peak, 100% relative abundance	129931	100.0	Pass
96	5.0 - 9.0% of mass 95	8485	6.53	Pass
173	Less than 2.0% of mass 174	1358	1.05	Pass
174	50.0 - 120.0% of mass 95	138136	106.3	Pass
175	4.0 - 9.0% of mass 174	10289	7.92	Pass
176	93.0 - 101.0% of mass 174	133627	102.8	Pass
177	5.0 - 9.0% of mass 176	8745	6.73	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W943-CC942	5W23827.D	04/20/17	09:50	00:49	Continuing cal 10
V5W943-BS2	5W23829.D	04/20/17	11:35	02:34	Blank Spike
V5W943-BSD2	5W23830.D	04/20/17	12:21	03:20	Blank Spike Duplicate
V5W943-MB2	5W23832.D	04/20/17	13:59	04:58	Method Blank
JC41140-4DUP	5W23833.D	04/20/17	14:50	05:49	Duplicate
ZZZZZZ	5W23834.D	04/20/17	15:43	06:42	(unrelated sample)
ZZZZZZ	5W23835.D	04/20/17	16:30	07:29	(unrelated sample)
ZZZZZZ	5W23837.D	04/20/17	18:13	09:12	(unrelated sample)
ZZZZZZ	5W23838.D	04/20/17	18:57	09:56	(unrelated sample)
ZZZZZZ	5W23839.D	04/20/17	19:44	10:43	(unrelated sample)
ZZZZZZ	5W23840.D	04/20/17	20:38	11:37	(unrelated sample)
ZZZZZZ	5W23841.D	04/20/17	21:40	12:39	(unrelated sample)
ZZZZZZ	5W23842.D	04/20/17	22:31	13:30	(unrelated sample)
ZZZZZZ	5W23843.D	04/20/17	23:28	14:27	(unrelated sample)
ZZZZZZ	5W23844.D	04/21/17	00:19	15:18	(unrelated sample)
V5W943-SCC	5W23847.D	04/21/17	02:46	17:45	Summa Cleaning Certification

SGS
44 of 45
ACCUTEST
JC42292

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JC42292
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Method: TO-15
Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JC42292-1	3W59788.D	91
JC42292-2	3W59840.D	103
JC42292-3	3W59841.D	92
JC42292-4	3W59842.D	93
JC42292-5	3W59843.D	96
JC42292-6	3W59844.D	94
JC42366-1DUP	3W59836.D	95
JC42649-1DUP	3W59777.D	94
V3W2255-SCC	3W59824.D	95
V3W2257-SCC	3W59401.D	93
V3W2258-SCC	3W59427.D	91
V3W2272-BS	3W59769.D	99
V3W2272-BSD	3W59770.D	101
V3W2272-MB	3W59772.D	91
V3W2274-BS	3W59820.D	100
V3W2274-BSD	3W59821.D	100
V3W2274-MB	3W59823.D	91
V5W943-SCC	5W23847.D	101
V3W2255-BS	3W59297.D	104
V3W2255-BSD	3W59298.D	108
V3W2255-MB	3W59300.D	92
V3W2257-BS	3W59380.D	108
V3W2257-BSD	3W59381.D	108
V3W2257-MB	3W59383.D	91
V3W2258-BS	3W59404.D	108
V3W2258-BSD	3W59405.D	108
V3W2258-MB	3W59407.D	94
V5W943-BS2	5W23829.D	102
V5W943-BSD2	5W23830.D	101
V5W943-MB2	5W23832.D	105
Surrogate Compounds		Recovery Limits
S1 = 4-Bromofluorobenzene		65-128%

SGS
45 of 45
ACCUTEST
JC42292

APPENDIX 2

FIELD NOTES

AND

SUPPORTING DOCUMENTATION

AGRA CCC/USDA WELL INFORMATION <i>Tiberich</i>						
DATE: 4-27-17						
Well	Total Depth (feet)	Permanent Tag Number	Temporary Tag Number Installed	SWL	Sample Time	Volume Purged (Gallons)
GW-1			472927	42.27	12:20	19.1
GW-3			472085	42.18	13:00	
GW-4			472948	42.59	12:40	

Accutest

QUARTERLY
Sample Analysis: Carbon Tetrachloride, Chloroform, and 1,2 DCA (8260)
Record Dissolved Oxygen reading Quarterly

Tiberich 4-27-17

AGRA CCC/USDA AIR SAMPLES INFORMATION						
Well	Time Collected					
SVE-1	10:30	A 678				
SVE-2	10:40	A 606				
SVE-3	10:50	M 429				
SVE-4	11:10	A 406				
SVE-5	10:20	A 599				
SVE Manifold	11:00	A 430				

Columbia Analytical Service

QUARTERLY

Collect one Summa Canister sample from each SVE Manifold leg and one from the overall SVE manifold. 6 total. Analyze for Carbon Tetrachloride, Chloroform, & 1,2 DCA via TO-15.

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum Minus (In./Ft. H ₂ O)	Depth to Top of Screen Minus	Length of Screen Exposed (Ft.)
SVE-1	62.1 + 62.41 = 124.51	1.6	20	21.83
SVE-2		1.36	20	22.07
SVE-3		1.53	20	21.90
SVE-4		1.56	20	21.87
SVE-5		1.78	20	20.65

NOTE: 1 PSI = 2.77 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By: T. A. S. L.Date Measurements Collected 4-27-17

Comments

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water Below TOC (Ft.)	Plus / Minus TOC (Ft.)	Difference in TOC Elevation Between MWL and AS Well	Adjusted SWL Equals	Depth to Top of Sparge Screen (Ft.)	Adjusted SWL Minus	Times	Calculation to Determine Amt. PSI Needed	Wellhead Pressure Needed to Overcome Water Column Equals
AS-1					51.37	- 42.43	X	0.434	3.88
AS-2					58		X	0.434	6.76
AS-3					53.9		X	0.434	4.98
AS-4					58		X	0.434	6.76
AS-5					55.27		X	0.434	6.01

Measurements Collected By: T. A. S. L.Date Measurements Collected 4-27-17

Comments

[illegible]

ACCU TEST

SDS

SGS Accutest Southeast
Chain of Custody
4405 Vineland Road, Suite C-15 Orlando, FL 32811

SGS ACCUTEST JOB # :

PAGE_

ANYONE ENTERING THIS BUILDING FOR ANY REASON MUST MAKE A LOG ENTRY
(If you do not know where the hour meters are located or how to read them, you make leave this space blank.)

EQUIPMENT BUILDING LOG-IN SHEET

[illegible]

Site Address: Aggra, Ks.
Project Name: Formal Aggra cc/USDA
Project Code: 1491

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CUCUSDA
 Facility Address: 871 Railroad Ave, Agra, Kansas
 Consultant: Greenfield Contractors, Inc.
 Consultant Project Mgr: Tim Pace
 Reporting Period: 2-23-17 thru 4-3-17
 Days in Reporting Period: _____
 Field Sheet Revision Date: _____

PROJ. # 1491
 Inspector: T. Dorrel
 Inspection Date: 4-3-17
 Inspection Time: 11:45
 Electrical Meter Reading: 63919

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 57133.6
 Design Parameters for Air Sparge System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 49080.5

Well ID	KOH/E	Temp.	LOC	Open to	Water Level	Flow Rate	Flow Phase
GW-1	472702	472702	Water (TOD)	Product (TOD)	Elevation	Prod. Elev.	Prod. Thick.
GW-3	472924	472924					
GW-4	472718	472718					

SYSTEM DOWN TIME SUMMARY

DATES	From	To	Expansion for Down Time	(Indicate Corrective Measures Taken)
4-3-17				

REMEDATION SYSTEM MAINTENANCE RECORD

Date of Changes	Description of Work Performed	Performed by
4-3-17	K.O. Tank Filters SVE / AS A/S Blower Grease Cleaned SVE lines Cleaned Flowmeters Used weedster around trailer Swept trailer Sensaphone Surge Protector Adjusted Air dilution Vane Width AIR Sparge vane measurement minimum 26 MM	T. Dorrel

SVE Filter	Soilberg	Need
Air Sparge Filter		

AS-4 broken At Flowmeter Threads off

Former Agra CUCUSDA

Proj. # 1491

Operating Status	Arrival	On	Off	Departure	On	Off	Flow Rate	Cumulative	O2	CO2	TPH (PID)
SVE UNIT	59.4	-16.8	close	150	22.9	1.0	1.0	1.0	1.0	1.0	1.0

SVE WELL FIELD DATA

SVE WELL	Vac. @	Direct Read	Flow Rate	O2	CO2	TPH/Drager	Vac. @
SVE-1	10.5	50	20.9	1.0	1.0	1.0	5.6
SVE-2	10.5	50	20.9	1.0	1.0	1.0	5.9
SVE-3	16.2	50	20.9	1.0	1.0	1.0	8.9
SVE-4							
SVE-5							

SPARGE UNIT FIELD DATA

Operating Status	Arrival	On	Off	Departure	On	Off	Flow Rate	Pressure	Flow Rate	Blow Off	Pre	Post
SPARGE UNIT	17.0	10.0	close	11.0								

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @	Pressure @	Direct Read
AS-1	3.74	3.51	4.5
AS-2	7.44	7.04	4.5
AS-3	10.4	10.4	1.0
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (In./Ft. H ₂ O)	Minus	Depth to Top of Screen	Equals	Length of Screen Exposed (Ft.)
SVE-1	$644-1+644=1288$ 42.30	47		20		21.83
SVE-2		49		20		21.81
SVE-3		74		20		21.56
SVE-4				20		
SVE-5				20		

NOTE: 1 PSI = 2.77 INCHES OF WATER
1 INCH HG = 13.6 INCHES OF WATER
Positive screen value equals length of screen exposed
Negative screen value equals length of screen flooded

Measurements Collected By T. Berch

Date Measurements Collected 4-3-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MW and AS Well	Adjusted Equals SWL	Depth to Top of Sparge Screen (Ft)	Minus	Adjusted SWL	Time	Calculation to Determine Amt. PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1					51.37		42.30	X	0.434	3.34
AS-2					51			X	0.434	6.81
AS-3					53.9			X	0.434	5.03
AS-4					58			X	0.434	6.81
AS-5					58.27			X	0.434	6.06

Measurements Collected By T. Berch

Date Measurements Collected 4-3-17

Comments

**Former Agra CCC/USDA
671 Railroad Ave**

Facility Name:

GreenField Contractors, Inc.
Tim Pace

Consultant:
Consultant Project Mgr.:

Reporting Period: 1-30-17 thru 2-23-17

Days in Reporting Period:

Field Sheet Revision Date:

Inspection

2-23-17

Inspection Time:

11:50

Electrical Meter Reading:

16875

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:

Blower Operation:

Hour Meter Reading

Design Parameters for All Sparge System:

Blower Operation:

250 SCFM 40 "H2O

	SCFM	H ₂ O
135	Continual	Cycling
	X	

6560.3 Previous 51133.6 Present

25	SCFM	12	PSI
110	SCFM	187	PSI

	X	Continual	Cycling
1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7
5	6	7	8
6	7	8	9
7	8	9	10
8	9	10	11
9	10	11	12
10	11	12	13
11	12	13	14
12	13	14	15
13	14	15	16
14	15	16	17
15	16	17	18
16	17	18	19
17	18	19	20
18	19	20	21
19	20	21	22
20	21	22	23
21	22	23	24
22	23	24	25
23	24	25	26
24	25	26	27
25	26	27	28
26	27	28	29
27	28	29	30
28	29	30	31
29	30	31	32
30	31	32	33
31	32	33	34
32	33	34	35
33	34	35	36
34	35	36	37
35	36	37	38
36	37	38	39
37	38	39	40
38	39	40	41
39	40	41	42
40	41	42	43
41	42	43	44
42	43	44	45
43	44	45	46
44	45	46	47
45	46	47	48
46	47	48	49
47	48	49	50
48	49	50	51
49	50	51	52
50	51	52	53
51	52	53	54
52	53	54	55
53	54	55	56
54	55	56	57
55	56	57	58
56	57	58	59
57	58	59	60
58	59	60	61
59	60	61	62
60	61	62	63
61	62	63	64
62	63	64	65
63	64	65	66
64	65	66	67
65	66	67	68
66	67	68	69
67	68	69	70
68	69	70	71
69	70	71	72
70	71	72	73
71	72	73	74
72	73	74	75
73	74	75	76
74	75	76	77
75	76	77	78
76	77	78	79
77	78	79	80
78	79	80	81
79	80	81	82
80	81	82	83
81	82	83	84
82	83	84	85
83	84	85	86
84	85	86	87
85	86	87	88
86	87	88	89
87	88	89	90
88	89	90	91
89	90	91	92
90	91	92	93
91	92	93	94
92	93	94	95
93	94	95	96
94	95	96	97
95	96	97	98
96	97	98	99
97	98	99	100

GROUNDWATER ELEVATIONS

Well No.	Well ID	Site ID	Temp. Tag No.	TOC Elevation	Depth to Water (ftCGL)	Depth to Product (ftCGL)	Water Level Elevation	Free Phase Prod. Elev.	Free Phase Prod. Total	D.O.
GW-1			472817		42.20					
GW-3			472563		42.09					
GW-4			472872		42.54					

SYSTEM DOWN TIME SUMMARY

[illegible]

Date of Changes

2-23-07

K.O. Tank	Drained	K.O. Meter	empty
Filters SVE	Replaced		
AVSB Blower	Replaced		

U-3-7

REMEDICATION SYSTEM MAINTENANCE RECORD

Date of Changes	Description of Work Performed	Performed by
2-23-77	K.O. Tank	<u>empty</u>
	Fliers SVE	Cleaned
	A/S Blower Grease	Added
	Cleaned SVE lines	Yes
	Cleaned Flowmeters	Yes
	Used weed-eater around trailer	Yes
	Swept trailer	Yes
	Sensaphone Surge Protector	Bad
Adjusted Air dilution	From: <u>close</u> To: <u>close</u>	

Check Quarterly

Becker 3.60

Spooge vane measurement minimum 26 MM

Need

Bredjic

11

Air Sarge Filler							

Operating Status	Pre KO Tank PrePost Filler Vacuum Fltrate (#H2O)	PrePost Dilution Air Fltrate (#H2O)	Departure Of Air	Cumulative Flowrate (cfm) Sum of SVE Wells	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
7. bore 2023-17	60.8	-168.6	11000	150	20.9	0	0

SVE WELL	Vac @ Manifold (H ₂ O)	Direct Read Flowrate (cfm) ± 1 in.	O ₂ Readings (%)	CO ₂ Readings (%)	TPH/Drager Readings (ppm)	Vac @ Manifold (H ₂ O)
SVE-1	7.2	50	20.9	1.0	1.0	3.5
SVE-2	8.1	50	20.9	1.0	1.0	3.5
SVE-3	12.7	50	20.9	1.0	1.0	5.6
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA					
Operating Status:	Arrival On / Off	Departure On / Off			
SPARGE UNIT	Pressure (psig)	Flow Rate (gpm)	Bleed Off (% Open)	Pit Air Temp. (deg. F)	Post Air Temp. (deg. F)
	18.7	11.0	closed	115.0	

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cm)
AS-1	3.67	3.39	4.0
AS-2	7.36	7.04	4.0
AS-3	10.4	10.4	3.0
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (In./Ft. H ₂ O)	Minus	Depth to Top of Screen	Equals	Length of Screen Exposed (Ft.)
SVE-1	$660-1 + 660-430 \div 2 = 412.37$	29		20	=	22.08
SVE-2		29		20	=	22.08
SVE-3		47		20	=	21.90
SVE-4				20	=	
SVE-5				20	=	

NOTE: 1 PSI = 2.77 INCHES OF WATER

1 INCH HG = 13.6 INCHES OF WATER

Positive screen value equals length of screen exposed

Negative screen value equals length of screen flooded

Measurements Collected By: T. Dore

Date Measurements Collected 2-23-07

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water by TOC (Ft.)	Plus / Minus TOC	Difference in TOC Elevation Between MWL and AS Well	Adjusted SWL Equals	Depth to Top of Sparge Screen (Ft.)	Minus	Adjusted SWL	Times	Calculation to Determine Amt. PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1	51.37	-		=	51.37	-	42.37	X	0.434	= 39.1
AS-2	58	-		=	58	-		X	0.434	= 6.78
AS-3	53.9	-		=	53.9	-		X	0.434	= 5.0
AS-4	56	-		=	56	-		X	0.434	= 6.78
AS-5	56.27	-		=	56.27	-		X	0.434	= 6.03

Measurements Collected By: T. Dore

Date Measurements Collected 2-23-07

Comments

Supplement 7:

GreenField Report for Monthly OMM Event on May 30, 2017

Post Office Box 677
Salina, Kansas 67402-0677
Phone (785) 822-0900
Fax (785) 826-9508

CONTRACTORS, INC.

ENVIRONMENTAL PROFESSIONALS

May 31, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Fifteenth Monthly OMM Report of the Fourth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the May 30, 2017 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 59.1 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 17.8 psi and cumulative airflow rate of 11.3 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 3.44 to greater than 10 psi. The ASP-4 well line is throttled off due to a break in the flow meter. Costs are being assessed for replacement. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

A handwritten signature in cursive script that reads "Melisa D. McElwee".

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
Facility Address: 571 Railroad Ave
Agra, Kansas

Consultant: GreenField Contractors, Inc.
Reporting Period: 4-27-17 thru 5-30-17

PROJ. # 1491

Inspector: Tim Dea

Days in Reporting Period: 4-27-17 thru 5-30-17
Field Sheet Revision Date: 5-30-17
Electrical Meter Reading: 11:55
75201

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 58609.3 Previous 53399.0 Present

Design Parameters for Air Sparge System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 50556.2 Previous 51345.9 Present

Well ID	KOHE Site ID	Temp	TOC	Water Level	Free Phase
GW-1	41.41	41.41	41.41	Post Blw.	D.O.
GW-3	41.84	41.84	41.84	Post Blw.	D.O.
GW-4	41.84	41.84	41.84	Post Blw.	D.O.

DATES		To	
From		To	

SYSTEM DOWN TIME SUMMARY	
Estimation for Down Time (Indicate Corrective Measures Taken)	
Date of Changes	

REMEDATION SYSTEM MAINTENANCE RECORD	
Date of Changes	Description of Work Performed
5-30-17	K.O. Tank Drained Filters SVE Replaced ASP Blower Grease Added Cleared SVE lines Yes Cleared Flowmeters Yes Used weed eater around trailer Yes Swept trailer Yes Sensaphone Surge Protector Yes Adjusted Air dilution: From: closed To: closed Vane Width: Becker 3.60 AIR Sparge vane measurement minimum 28 MM

SVE Filter	Schberg	Need
Air Sparge Filter		

Former Agra CCC/USDA

Proj. # 1491

Operating Status:	Arrival On	Off	Departure On	Off	PrePost Filter Vacuum (H2O)	Dilution Air Flowrate (cfm)	Cumulative Flowrate (cfm)	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
SVE UNIT	5-30-17	5-30-17	5-30-17	5-30-17	5-30-17	5-30-17	5-30-17	5-30-17	5-30-17	5-30-17

SVE WELL FIELD DATA						
SVE WELL	Vac. @ Manifold (H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead (H2O)
SVE-1	16.2	50	20.9	1.0	1.0	12.4
SVE-2	13.2	50	20.9	1.0	1.0	8.6
SVE-3	15.6	50	20.9	1.0	1.0	11.0
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

Operating Status:	Arrival On	Off	Departure On	Off	Pressure (psf)	Flow Rate (cfm)	Bleed Off (%)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
SPARGE UNIT	5-30-17	5-30-17	5-30-17	5-30-17	17.8	11.3	closed	109.0	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psf)	Pressure @ Wellhead (psf)	Direct Read Flow Rate (cfm)
AS-1	3.77	3.44	5.0
AS-2	7.46	7.15	3.8
AS-3	10.4	10.4	2.5
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (In./Ft. H ₂ O)	Minus	Depth to Top of Screen	Equals	Length of Screen Exposed (Ft.)
SVE-1	$6w-1 + 6w-4 = 72$ 41.87	1.03	-	20	=	20.84
SVE-2		.72	-	20	=	21.15
SVE-3		.92	-	20	=	20.95
SVE-4			-	20	=	
SVE-5			-	20	=	

NOTE: 1 PSI = 2.77 INCHES OF WATER

1 INCH HG = 13.6 INCHES OF WATER

Positive screen value equals length of screen exposed

Negative screen value equals length of screen flooded

Measurements Collected By T. Deard

Date Measurements Collected 5-30-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TDC Feet	Plus / Minus	Difference in TDC Elevation Between MWL and AS Well	Adjusted SVL	Depth to Top of Screen (Ft.)	Adjusted SVL	Calculation to Determine PSI Needed	Wellhead Pressure Head in Feet of Water Column
AS-1		-		*	51.37	- 41.87	X 0.434	= 41.12
AS-2		-		*	58	-	X 0.434	= 7.0
AS-3		-		*	55.9	-	X 0.434	= 5.22
AS-4		-		*	56	-	X 0.434	= 7.0
AS-5		-		*	56.27	-	X 0.434	= 6.25

Measurements Collected By T. Deard

Date Measurements Collected 5-30-17

Comments

Supplement 8:

GreenField Report for Monthly OMM Event on June 28, 2017

Post Office Box 677
Salina, Kansas 67402-0677
Phone (785) 822-0900
Fax (785) 826-9508

CONTRACTORS, INC.

ENVIRONMENTAL PROFESSIONALS

June 29, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Sixteenth Monthly OMM Report of the Fourth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the June 28, 2017 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 55.9 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 17.5 psi and cumulative airflow rate of 11.0 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 3.42 to greater than 10 psi. The ASP-4 well line is throttled off due to a break in the flow meter. Costs are being assessed for replacement. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

A handwritten signature in cursive script that reads "Melisa D. McElwee".

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

16DM

Facility Name: Former Agra CCC/USDAFacility Address: 671 Railroad Ave
Agra, KansasConsultant: GreenField Contractors, Inc.Consultant Project Mgr: Tim PaceReporting Period: 5-30-17 thru 6-28-17

Days In Reporting Period: _____

Field Sheet Revision Date: _____

PROJ. # 1491Inspector: Tim DorckInspection Date: 6-28-17Inspection Time: 12:30Electrical Meter Reading: 80844

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:

Reporting Period Parameters:

Blower Operation:

Hour Meter Reading:

250	SCFM	40	"H2O
<u>150</u>	SCFM	<u>55.9</u>	"H2O
X	Continual		Cycling
<u>59399.0</u>	Previous	<u>60095.6</u>	Present

Design Parameters for Air Sparge System:

Reporting Period Parameters:

Blower Operation:

Hour Meter Reading:

25	SCFM	12	PSI
<u>11.0</u>	SCFM	<u>17.5</u>	PSI
X	Continual		Cycling
<u>51345.9</u>	Previous	<u>52042.6</u>	Present

GROUNDWATER ELEVATIONS

Well I.D. No.	KDHE Site I.D.	Temp. Tag No.	TOC Elevation	Depth to Water (TOC)	Depth to Product (TOC)	Water Level Elevation	Free Phase Prod. Elev.	Free Phase Prod. Thick.	D.O.
GW-1		<u>498211</u>		<u>41.74</u>					
GW-3		<u>498204</u>		<u>41.59</u>					
GW-4		<u>498319</u>		<u>42.15</u>					

SYSTEM DOWN TIME SUMMARY

DATES		Explanation for Down Time (Indicate Corrective Measures Taken)
From	To	
<u> / / </u>	<u> / / </u>	

REMEDIATION SYSTEM MAINTENANCE RECORD

Date of Changes	Description of Work Performed	Performed by
<u>6-28-17</u>	K.O. Tank	Drained
	Filters SVE	<u>Checked</u>
	A/SP Blower Grease	Checked
	Cleared SVE lines	Yes <u>No</u>
	Cleaned Flowmeters	Yes <u>No</u>
	Used weedeater around trailer	<u>Yes</u> No
	Swept trailer	<u>Yes</u> No
	Sensaphone Surge Protector	<u>Good</u> Bad
	Adjusted Air dilution: From: <u>closed</u> To: <u>closed</u>	
	Vane Width:	
Check <u>Quarterly</u>	AIR Sparge vane measurement minimum 26 MM	
Becker 3.60		

	Solberg					Need
SVE Filter						
Air Sparge Filter						

Former Agra CCC/USDA

Proj. # 1491

T. Board 6-28-17
Operating Status: Arrival On / Off Departure On / Off

SVE UNIT	Pre KO Tank Vacuum ("H2O)	Pre/Post Filter Vacuum ("H2O)	Dilution Air Flowrate (cfm)	Cumulative Flowrate (cfm) Sum of SVE Wells	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
	55.9	- 164	closed	150	20.9	1.0	1.0

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold ("H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead ("H2O)
SVE-1	10.8	50	20.9	1.0	1.0	7.0
SVE-2	8.6	50	20.9	1.0	1.0	5.1
SVE-3	11.8	50	20.9	1.0	1.0	7.2
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

Operating Status: Arrival On / Off Departure On / Off

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (% Open)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
	17.5	11.0	closed	133°	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	3.82	3.42	4.9
AS-2	7.48	7.28	3.6
AS-3	10+	10+	2.5
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Minus	Wellhead Vacuum (In./Ft. H2O)	Minus	Depth to Top of Screen	Equals	Length of Screen Exposed (Ft.)
SVE-1	$6w-1 + 6w-4 \div 2 =$ 41.95	-	1.58	-	20	=	21.37
SVE-2		-	1.43	-	20	=	21.52
SVE-3		-	1.6	-	20	=	21.35
SVE-4		-		-	20	=	
SVE-2		-		-	20	=	

NOTE: 1 PSI = 27.7 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By T. Dorck

Date Measurements Collected 6-28-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MW- and AS Well	Adjusted SWL	Depth to Top of Sparge Screen (Ft)	Adjusted SWL	Times	Calculation to Determine Amt. PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1	-	=			51.37	- 41.95	X	0.434	= 4.09
AS-2	-	=			58	-	X	0.434	= 6.97
AS-3	-	=			53.9	-	X	0.434	= 5.19
AS-4	-	=			58	-	X	0.434	= 6.97
AS-5	-	=			56.27	-	X	0.434	= 6.21

Measurements Collected By T. Dorris

Date Measurements Collected 6-28-17

Comments

Supplement 9:
Daily Telemetry Reports

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/01/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	3.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/02/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	3.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/03/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	3.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/04/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	3.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/05/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	3.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/06/17

Time: 03:32:31PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/07/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/08/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/09/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/10/17

Time: 03:32:31PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/11/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/12/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/13/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/14/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/15/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/16/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/17/17

Time: 03:36:55PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/18/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/19/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/20/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/21/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/22/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/23/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/24/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 0			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/25/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 0			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/26/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/27/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/28/17

Time: 03:32:45PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/29/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/30/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	0.2		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 01/31/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/01/17

Time: 03:33:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/02/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/03/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/04/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/05/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/06/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/07/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/08/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/09/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/10/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	0.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/11/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	1.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/12/17

Time: 03:32:39PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	1.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/13/17

Time: 03:41:38PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	1.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/14/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	1.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/15/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	1.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/16/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	1.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/17/17

Time: 03:32:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	1.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/18/17

Time: 03:32:31PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/19/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/20/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/21/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/22/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/23/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/24/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/25/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/26/17

Time: 03:32:35PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/27/17

Time: 03:33:07PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 02/28/17

Time: 03:41:24PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/01/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/02/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/03/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/04/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/05/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/06/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/07/17

Time: 03:32:35PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/08/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/09/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		STOPPED	OK				
ASP Motor		STOPPED	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/10/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/11/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/12/17

Time: 03:32:31PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/13/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/14/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/15/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/16/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/17/17

Time: 03:32:35PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/18/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/19/17

Time: 03:32:32PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/20/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/21/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/22/17

Time: 03:32:35PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/23/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/24/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/25/17

Time: 03:32:32PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/26/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/27/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/28/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/29/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/30/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 03/31/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/01/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/02/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/03/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/04/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/05/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/06/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/07/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/08/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/09/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/10/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/11/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/12/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/13/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.5 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/14/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/15/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.7 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/16/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/17/17

Time: 03:32:35PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/18/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/19/17

Time: 03:32:23PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.8 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/20/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/21/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/22/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/23/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/24/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/25/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/26/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/27/17

Time: 03:32:31PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/28/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/29/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 04/30/17

Time: 03:32:36PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.0 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/01/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/02/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/03/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/04/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/05/17

Time: 03:32:31PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	2.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/06/17

Time: 03:32:21PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.9 V			0.0	3.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/07/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.4 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/08/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/09/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/10/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.7 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/11/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/12/17

Time: 03:32:21PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.7 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/13/17

Time: 03:32:34PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/14/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/15/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/16/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/17/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.2 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/18/17

Time: 03:32:32PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	3.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/19/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.1	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/20/17

Time: 03:32:36PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/21/17

Time: 03:32:36PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/22/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/23/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.1 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/24/17

Time: 03:32:12PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/25/17

Time: 03:32:32PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/26/17

Time: 03:32:25PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.6 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/27/17

Time: 03:32:03PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.6 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/28/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.7 V			0.0	5.5		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/29/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.6 V			0.1	0.6		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/30/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.1	1.4		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 05/31/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.8 V			0.1	2.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/01/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.1	2.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/02/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.1	2.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/03/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	2.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/04/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.4 V			0.1	2.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/05/17

Time: 03:32:25PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/06/17

Time: 03:32:06PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/07/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/08/17

Time: 03:32:44PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/09/17

Time: 03:40:26PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/10/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/11/17

Time: 03:32:43PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/12/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.2 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/13/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.1	2.3		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/14/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.2	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/15/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.7 V			0.2	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/16/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.3 V			0.2	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/17/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.2	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/18/17

Time: 03:32:20PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.8 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/19/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/20/17

Time: 03:36:11PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.5 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/21/17

Time: 03:32:13PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.0 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/22/17

Time: 03:35:52PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.5 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/23/17

Time: 03:32:29PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVerload		OFF	OK				
ASP OVerload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.4 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/24/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.7 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/25/17

Time: 03:32:33PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/26/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/27/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.8 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/28/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.3 V			0.1	5.0		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/29/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.8 V			0.2	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 06/30/17

Time: 03:32:31PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.3 V			0.1	5.1		

Supplement 10:

**Automatically Recorded Air Pressures in Soil Gas Wells
and Local Barometric Pressure**

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/7/16 18:00	13.949	13.971	13.977	13.977	14.014	13.968	13.969
12/7/16 20:00	13.976	13.999	13.999	14.002	14.048	13.992	13.994
12/7/16 22:00	13.995	14.012	14.022	14.020	14.079	14.012	14.012
12/8/16 0:00	14.009	14.030	14.035	14.037	14.088	14.026	14.027
12/8/16 2:00	14.019	14.043	14.043	14.046	14.110	14.036	14.039
12/8/16 4:00	14.031	14.049	14.058	14.056	14.119	14.048	14.048
12/8/16 6:00	14.036	14.058	14.065	14.066	14.123	14.055	14.057
12/8/16 8:00	14.053	14.078	14.079	14.082	14.137	14.071	14.073
12/8/16 10:00	14.069	14.087	14.098	14.096	14.155	14.087	14.088
12/8/16 12:00	14.067	14.089	14.097	14.098	14.165	14.087	14.089
12/8/16 14:00	14.048	14.074	14.076	14.079	14.166	14.067	14.070
12/8/16 16:00	14.040	14.060	14.071	14.069	14.152	14.060	14.061
12/8/16 18:00	14.037	14.061	14.068	14.067	14.135	14.057	14.059
12/8/16 20:00	14.044	14.068	14.071	14.074	14.138	14.063	14.064
12/8/16 22:00	14.035	14.055	14.065	14.063	14.145	14.054	14.055
12/9/16 0:00	14.032	14.054	14.060	14.060	14.127	14.050	14.052
12/9/16 2:00	14.015	14.037	14.041	14.043	14.130	14.031	14.034
12/9/16 4:00	14.002	14.021	14.031	14.029	14.112	14.020	14.021
12/9/16 6:00	13.984	14.006	14.013	14.012	14.097	14.001	14.004
12/9/16 8:00	13.979	14.003	14.007	14.008	14.081	13.997	13.999
12/9/16 10:00	13.966	13.987	13.997	13.995	14.082	13.986	13.986
12/9/16 12:00	13.946	13.970	13.976	13.977	14.062	13.966	13.968
12/9/16 14:00	13.908	13.934	13.937	13.939	14.048	13.928	13.930
12/9/16 16:00	13.916	13.938	13.947	13.946	14.010	13.937	13.938
12/9/16 18:00	13.920	13.944	13.950	13.950	14.012	13.940	13.942
12/9/16 20:00	13.926	13.950	13.954	13.955	14.018	13.944	13.947
12/9/16 22:00	13.917	13.935	13.945	13.942	14.025	13.934	13.935
12/10/16 0:00	13.924	13.947	13.953	13.953	14.011	13.943	13.945
12/10/16 2:00	13.904	13.930	13.934	13.935	14.020	13.923	13.926
12/10/16 4:00	13.887	13.909	13.917	13.917	14.007	13.907	13.908
12/10/16 6:00	13.859	13.882	13.889	13.888	13.982	13.878	13.880
12/10/16 8:00	13.850	13.875	13.878	13.881	13.955	13.868	13.871
12/10/16 10:00	13.833	13.855	13.864	13.862	13.951	13.853	13.854
12/10/16 12:00	13.783	13.806	13.813	13.815	13.927	13.803	13.804
12/10/16 14:00	13.734	13.760	13.763	13.768	13.883	13.755	13.757
12/10/16 16:00	13.705	13.727	13.734	13.733	13.834	13.725	13.726
12/10/16 18:00	13.688	13.712	13.717	13.719	13.802	13.708	13.710
12/10/16 20:00	13.667	13.693	13.695	13.697	13.786	13.687	13.689
12/10/16 22:00	13.646	13.665	13.674	13.674	13.769	13.665	13.665
12/11/16 0:00	13.616	13.638	13.644	13.645	13.738	13.635	13.637
12/11/16 2:00	13.601	13.623	13.626	13.629	13.711	13.618	13.620
12/11/16 4:00	13.606	13.625	13.633	13.633	13.698	13.623	13.624
12/11/16 6:00	13.628	13.650	13.656	13.656	13.697	13.646	13.648
12/11/16 8:00	13.665	13.689	13.692	13.693	13.725	13.683	13.685
12/11/16 10:00	13.697	13.716	13.725	13.725	13.762	13.715	13.716
12/11/16 12:00	13.722	13.745	13.750	13.751	13.792	13.741	13.743

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/11/16 14:00	13.725	13.751	13.752	13.755	13.819	13.744	13.747
12/11/16 16:00	13.737	13.758	13.766	13.765	13.825	13.757	13.757
12/11/16 18:00	13.762	13.786	13.791	13.792	13.831	13.782	13.785
12/11/16 20:00	13.771	13.796	13.798	13.800	13.859	13.790	13.792
12/11/16 22:00	13.780	13.798	13.808	13.807	13.871	13.797	13.798
12/12/16 0:00	13.799	13.821	13.828	13.827	13.871	13.816	13.819
12/12/16 2:00	13.788	13.812	13.815	13.816	13.897	13.806	13.808
12/12/16 4:00	13.782	13.802	13.810	13.809	13.885	13.800	13.801
12/12/16 6:00	13.767	13.789	13.797	13.796	13.873	13.785	13.788
12/12/16 8:00	13.763	13.787	13.791	13.792	13.865	13.781	13.784
12/12/16 10:00	13.765	13.787	13.795	13.794	13.860	13.785	13.786
12/12/16 12:00	13.752	13.778	13.783	13.785	13.862	13.773	13.775
12/12/16 14:00	13.720	13.747	13.750	13.752	13.851	13.741	13.743
12/12/16 16:00	13.709	13.731	13.740	13.740	13.822	13.730	13.731
12/12/16 18:00	13.721	13.744	13.751	13.751	13.804	13.740	13.743
12/12/16 20:00	13.750	13.775	13.778	13.779	13.820	13.768	13.770
12/12/16 22:00	13.787	13.809	13.817	13.815	13.848	13.807	13.808
12/13/16 0:00	13.814	13.838	13.844	13.846	13.879	13.834	13.837
12/13/16 2:00	13.837	13.860	13.864	13.866	13.912	13.854	13.857
12/13/16 4:00	13.855	13.876	13.884	13.882	13.932	13.873	13.874
12/13/16 6:00	13.875	13.897	13.905	13.904	13.949	13.892	13.895
12/13/16 8:00	13.908	13.930	13.935	13.934	13.970	13.924	13.927
12/13/16 10:00	13.922	13.943	13.951	13.950	14.005	13.940	13.941
12/13/16 12:00	13.892	13.915	13.921	13.922	14.015	13.911	13.913
12/13/16 14:00	13.864	13.890	13.893	13.895	13.991	13.884	13.885
12/13/16 16:00	13.839	13.864	13.872	13.871	13.963	13.860	13.862
12/13/16 18:00	13.842	13.865	13.871	13.871	13.934	13.860	13.862
12/13/16 20:00	13.836	13.859	13.865	13.865	13.940	13.854	13.857
12/13/16 22:00	13.832	13.852	13.861	13.859	13.932	13.849	13.851
12/14/16 0:00	13.833	13.855	13.862	13.861	13.926	13.850	13.852
12/14/16 2:00	13.820	13.843	13.847	13.849	13.928	13.837	13.839
12/14/16 4:00	13.833	13.854	13.863	13.861	13.918	13.851	13.854
12/14/16 6:00	13.860	13.883	13.890	13.889	13.928	13.878	13.881
12/14/16 8:00	13.900	13.924	13.928	13.929	13.955	13.917	13.920
12/14/16 10:00	13.929	13.953	13.961	13.960	13.997	13.949	13.950
12/14/16 12:00	13.946	13.972	13.978	13.979	14.024	13.967	13.970
12/14/16 14:00	13.931	13.958	13.961	13.962	14.046	13.951	13.953
12/14/16 16:00	13.931	13.954	13.962	13.962	14.029	13.951	13.952
12/14/16 18:00	13.933	13.957	13.964	13.964	14.028	13.954	13.955
12/14/16 20:00	13.939	13.965	13.969	13.971	14.031	13.959	13.961
12/14/16 22:00	13.948	13.972	13.980	13.978	14.041	13.968	13.970
12/15/16 0:00	13.950	13.975	13.981	13.981	14.043	13.970	13.972
12/15/16 2:00	13.944	13.971	13.975	13.975	14.045	13.964	13.967
12/15/16 4:00	13.926	13.949	13.956	13.957	14.044	13.946	13.948
12/15/16 6:00	13.906	13.929	13.937	13.936	14.020	13.925	13.927
12/15/16 8:00	13.905	13.931	13.935	13.935	14.004	13.924	13.926

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/15/16 10:00	13.889	13.913	13.920	13.920	14.002	13.909	13.911
12/15/16 12:00	13.844	13.871	13.877	13.879	13.986	13.867	13.869
12/15/16 14:00	13.789	13.817	13.821	13.823	13.944	13.812	13.814
12/15/16 16:00	13.759	13.783	13.790	13.789	13.893	13.780	13.781
12/15/16 18:00	13.752	13.775	13.781	13.780	13.856	13.770	13.772
12/15/16 20:00	13.732	13.758	13.761	13.764	13.846	13.751	13.754
12/15/16 22:00	13.711	13.732	13.740	13.739	13.831	13.729	13.731
12/16/16 0:00	13.686	13.709	13.714	13.714	13.804	13.703	13.706
12/16/16 2:00	13.655	13.679	13.683	13.684	13.783	13.672	13.675
12/16/16 4:00	13.634	13.655	13.663	13.662	13.752	13.652	13.653
12/16/16 6:00	13.618	13.642	13.649	13.648	13.730	13.637	13.639
12/16/16 8:00	13.595	13.621	13.625	13.627	13.715	13.614	13.617
12/16/16 10:00	13.583	13.606	13.614	13.612	13.691	13.602	13.604
12/16/16 12:00	13.525	13.549	13.555	13.556	13.678	13.545	13.547
12/16/16 14:00	13.516	13.541	13.544	13.547	13.621	13.534	13.537
12/16/16 16:00	13.521	13.543	13.551	13.549	13.614	13.540	13.542
12/16/16 18:00	13.535	13.559	13.564	13.566	13.613	13.554	13.556
12/16/16 20:00	13.555	13.581	13.583	13.586	13.633	13.574	13.577
12/16/16 22:00	13.573	13.594	13.602	13.600	13.652	13.591	13.593
12/17/16 0:00	13.627	13.649	13.655	13.656	13.668	13.645	13.648
12/17/16 2:00	13.662	13.686	13.689	13.693	13.722	13.679	13.682
12/17/16 4:00	13.682	13.701	13.710	13.707	13.757	13.699	13.700
12/17/16 6:00	13.731	13.752	13.759	13.754	13.775	13.746	13.749
12/17/16 8:00	13.773	13.794	13.798	13.796	13.825	13.786	13.791
12/17/16 10:00	13.790	13.811	13.818	13.818	13.868	13.807	13.810
12/17/16 12:00	13.792	13.816	13.822	13.824	13.883	13.810	13.814
12/17/16 14:00	13.794	13.816	13.821	13.824	13.887	13.810	13.814
12/17/16 16:00	13.836	13.855	13.863	13.860	13.890	13.851	13.853
12/17/16 18:00	13.875	13.897	13.903	13.902	13.926	13.891	13.894
12/17/16 20:00	13.906	13.928	13.933	13.932	13.971	13.922	13.924
12/17/16 22:00	13.923	13.943	13.950	13.949	13.999	13.939	13.941
12/18/16 0:00	13.937	13.958	13.964	13.963	14.017	13.952	13.954
12/18/16 2:00	13.943	13.963	13.968	13.967	14.029	13.957	13.960
12/18/16 4:00	13.945	13.963	13.971	13.970	14.038	13.959	13.961
12/18/16 6:00	13.953	13.973	13.979	13.978	14.036	13.966	13.969
12/18/16 8:00	13.973	13.994	14.000	14.000	14.043	13.988	13.991
12/18/16 10:00	13.983	14.005	14.013	14.010	14.067	14.000	14.003
12/18/16 12:00	13.973	13.998	14.004	14.005	14.075	13.992	13.995
12/18/16 14:00	13.958	13.984	13.989	13.987	14.071	13.977	13.979
12/18/16 16:00	13.955	13.981	13.988	13.986	14.055	13.976	13.978
12/18/16 18:00	13.971	13.995	14.002	14.001	14.055	13.990	13.993
12/18/16 20:00	13.987	14.013	14.017	14.018	14.068	14.005	14.008
12/18/16 22:00	14.003	14.025	14.032	14.031	14.083	14.020	14.022
12/19/16 0:00	14.005	14.028	14.034	14.034	14.097	14.023	14.026
12/19/16 2:00	13.991	14.016	14.021	14.021	14.100	14.009	14.012
12/19/16 4:00	13.986	14.008	14.015	14.015	14.089	14.003	14.005

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/19/16 6:00	13.975	13.999	14.004	14.003	14.079	13.992	13.995
12/19/16 8:00	13.982	14.005	14.009	14.009	14.072	13.998	14.000
12/19/16 10:00	13.974	13.996	14.004	14.001	14.076	13.991	13.994
12/19/16 12:00	13.950	13.976	13.983	13.983	14.069	13.970	13.973
12/19/16 14:00	13.895	13.923	13.928	13.928	14.049	13.916	13.919
12/19/16 16:00	13.872	13.900	13.907	13.906	13.993	13.895	13.898
12/19/16 18:00	13.860	13.886	13.893	13.892	13.972	13.881	13.883
12/19/16 20:00	13.847	13.874	13.879	13.881	13.958	13.868	13.871
12/19/16 22:00	13.837	13.861	13.869	13.867	13.947	13.857	13.859
12/20/16 0:00	13.829	13.854	13.860	13.860	13.933	13.847	13.851
12/20/16 2:00	13.824	13.850	13.855	13.856	13.928	13.844	13.846
12/20/16 4:00	13.837	13.859	13.866	13.864	13.922	13.854	13.856
12/20/16 6:00	13.856	13.880	13.886	13.884	13.932	13.874	13.877
12/20/16 8:00	13.878	13.904	13.909	13.907	13.952	13.896	13.899
12/20/16 10:00	13.894	13.917	13.925	13.924	13.974	13.913	13.915
12/20/16 12:00	13.883	13.910	13.916	13.916	13.991	13.904	13.907
12/20/16 14:00	13.857	13.885	13.889	13.890	13.981	13.878	13.881
12/20/16 16:00	13.838	13.863	13.868	13.868	13.958	13.858	13.859
12/20/16 18:00	13.820	13.845	13.850	13.851	13.933	13.840	13.844
12/20/16 20:00	13.819	13.846	13.849	13.849	13.920	13.839	13.841
12/20/16 22:00	13.793	13.816	13.823	13.823	13.918	13.812	13.814
12/21/16 0:00	13.772	13.797	13.803	13.804	13.885	13.792	13.794
12/21/16 2:00	13.745	13.770	13.774	13.773	13.870	13.764	13.766
12/21/16 4:00	13.729	13.752	13.760	13.758	13.841	13.748	13.750
12/21/16 6:00	13.726	13.749	13.756	13.754	13.825	13.744	13.747
12/21/16 8:00	13.740	13.765	13.769	13.768	13.821	13.758	13.761
12/21/16 10:00	13.781	13.805	13.812	13.811	13.839	13.801	13.803
12/21/16 12:00	13.820	13.847	13.853	13.852	13.877	13.841	13.845
12/21/16 14:00	13.837	13.863	13.867	13.869	13.922	13.857	13.861
12/21/16 16:00	13.853	13.878	13.884	13.885	13.937	13.874	13.876
12/21/16 18:00	13.881	13.907	13.912	13.912	13.947	13.901	13.904
12/21/16 20:00	13.910	13.936	13.939	13.940	13.980	13.929	13.932
12/21/16 22:00	13.934	13.959	13.965	13.965	14.006	13.955	13.956
12/22/16 0:00	13.943	13.970	13.974	13.973	14.032	13.963	13.965
12/22/16 2:00	13.950	13.978	13.981	13.982	14.040	13.970	13.973
12/22/16 4:00	13.957	13.981	13.988	13.987	14.051	13.977	13.979
12/22/16 6:00	13.943	13.969	13.974	13.974	14.053	13.963	13.966
12/22/16 8:00	13.951	13.977	13.981	13.982	14.043	13.971	13.973
12/22/16 10:00	13.950	13.976	13.983	13.982	14.050	13.970	13.973
12/22/16 12:00	13.934	13.962	13.967	13.968	14.047	13.957	13.959
12/22/16 14:00	13.898	13.926	13.930	13.931	14.036	13.920	13.922
12/22/16 16:00	13.888	13.913	13.920	13.919	13.998	13.910	13.911
12/22/16 18:00	13.878	13.906	13.911	13.913	13.983	13.900	13.902
12/22/16 20:00	13.852	13.880	13.882	13.884	13.978	13.873	13.875
12/22/16 22:00	13.833	13.857	13.864	13.863	13.950	13.854	13.854
12/23/16 0:00	13.804	13.830	13.835	13.836	13.930	13.825	13.827

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/23/16 2:00	13.771	13.799	13.801	13.804	13.902	13.792	13.795
12/23/16 4:00	13.729	13.752	13.758	13.759	13.873	13.749	13.750
12/23/16 6:00	13.684	13.710	13.715	13.716	13.823	13.705	13.706
12/23/16 8:00	13.672	13.699	13.701	13.702	13.782	13.692	13.694
12/23/16 10:00	13.654	13.676	13.683	13.683	13.773	13.673	13.674
12/23/16 12:00	13.651	13.678	13.682	13.682	13.747	13.672	13.673
12/23/16 14:00	13.644	13.669	13.672	13.673	13.751	13.663	13.666
12/23/16 16:00	13.669	13.692	13.699	13.699	13.743	13.690	13.691
12/23/16 18:00	13.688	13.712	13.717	13.716	13.761	13.708	13.708
12/23/16 20:00	13.716	13.741	13.742	13.744	13.786	13.735	13.736
12/23/16 22:00	13.740	13.762	13.769	13.767	13.813	13.759	13.760
12/24/16 0:00	13.754	13.777	13.782	13.782	13.835	13.772	13.774
12/24/16 2:00	13.753	13.777	13.780	13.782	13.850	13.771	13.773
12/24/16 4:00	13.763	13.784	13.792	13.790	13.848	13.779	13.782
12/24/16 6:00	13.763	13.785	13.791	13.791	13.856	13.780	13.783
12/24/16 8:00	13.778	13.802	13.807	13.807	13.857	13.796	13.798
12/24/16 10:00	13.781	13.806	13.812	13.811	13.876	13.801	13.803
12/24/16 12:00	13.765	13.792	13.797	13.797	13.877	13.786	13.788
12/24/16 14:00	13.730	13.759	13.762	13.764	13.866	13.752	13.754
12/24/16 16:00	13.721	13.745	13.753	13.752	13.831	13.741	13.743
12/24/16 18:00	13.714	13.741	13.746	13.745	13.815	13.735	13.737
12/24/16 20:00	13.713	13.739	13.740	13.743	13.815	13.732	13.734
12/24/16 22:00	13.701	13.727	13.732	13.733	13.809	13.723	13.724
12/25/16 0:00	13.699	13.725	13.731	13.732	13.799	13.720	13.723
12/25/16 2:00	13.679	13.706	13.708	13.710	13.798	13.699	13.702
12/25/16 4:00	13.650	13.675	13.681	13.683	13.777	13.669	13.673
12/25/16 6:00	13.614	13.641	13.645	13.646	13.747	13.634	13.638
12/25/16 8:00	13.582	13.609	13.609	13.615	13.713	13.598	13.605
12/25/16 10:00	13.528	13.551	13.557	13.559	13.682	13.546	13.550
12/25/16 12:00	13.507	13.505	13.492	13.498	13.623	13.526	13.489
12/25/16 14:00	13.435	13.415	13.370	13.378	13.567	13.450	13.373
12/25/16 16:00	13.436	13.390	13.382	13.367	13.469	13.460	13.364
12/25/16 18:00	13.511	13.491	13.477	13.477	13.437	13.530	13.471
12/25/16 20:00	13.566	13.560	13.526	13.535	13.551	13.583	13.529
12/25/16 22:00	13.613	13.585	13.581	13.569	13.618	13.632	13.565
12/26/16 0:00	13.659	13.648	13.638	13.637	13.640	13.676	13.631
12/26/16 2:00	13.684	13.686	13.658	13.666	13.710	13.700	13.659
12/26/16 4:00	13.713	13.692	13.695	13.681	13.746	13.729	13.677
12/26/16 6:00	13.738	13.732	13.727	13.725	13.751	13.755	13.718
12/26/16 8:00	13.776	13.782	13.757	13.763	13.796	13.790	13.755
12/26/16 10:00	13.816	13.797	13.804	13.792	13.844	13.834	13.786
12/26/16 12:00	13.822	13.820	13.817	13.814	13.858	13.840	13.807
12/26/16 14:00	13.817	13.827	13.804	13.811	13.884	13.837	13.803
12/26/16 16:00	13.838	13.825	13.829	13.817	13.890	13.857	13.811
12/26/16 18:00	13.857	13.859	13.851	13.850	13.883	13.876	13.843
12/26/16 20:00	13.872	13.881	13.858	13.866	13.923	13.890	13.857

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/26/16 22:00	13.884	13.871	13.874	13.863	13.943	13.902	13.858
12/27/16 0:00	13.886	13.888	13.883	13.883	13.932	13.905	13.875
12/27/16 2:00	13.877	13.886	13.865	13.873	13.953	13.894	13.865
12/27/16 4:00	13.880	13.867	13.874	13.864	13.948	13.898	13.859
12/27/16 6:00	13.874	13.876	13.873	13.874	13.929	13.891	13.867
12/27/16 8:00	13.869	13.881	13.862	13.870	13.941	13.887	13.863
12/27/16 10:00	13.866	13.857	13.866	13.858	13.947	13.885	13.852
12/27/16 12:00	13.841	13.847	13.846	13.847	13.919	13.861	13.840
12/27/16 14:00	13.792	13.806	13.788	13.797	13.912	13.812	13.789
12/27/16 16:00	13.775	13.767	13.774	13.767	13.872	13.795	13.760
12/27/16 18:00	13.759	13.766	13.761	13.763	13.828	13.779	13.754
12/27/16 20:00	13.750	13.761	13.742	13.751	13.829	13.767	13.743
12/27/16 22:00	13.729	13.721	13.729	13.723	13.827	13.748	13.716
12/28/16 0:00	13.719	13.724	13.723	13.726	13.781	13.737	13.718
12/28/16 2:00	13.706	13.719	13.703	13.713	13.793	13.724	13.705
12/28/16 4:00	13.700	13.693	13.703	13.697	13.784	13.717	13.691
12/28/16 6:00	13.703	13.710	13.710	13.713	13.758	13.722	13.705
12/28/16 8:00	13.729	13.743	13.728	13.736	13.777	13.746	13.729
12/28/16 10:00	13.751	13.746	13.754	13.748	13.807	13.770	13.743
12/28/16 12:00	13.764	13.772	13.770	13.771	13.809	13.784	13.764
12/28/16 14:00	13.755	13.768	13.751	13.758	13.839	13.773	13.751
12/28/16 16:00	13.771	13.767	13.771	13.763	13.835	13.791	13.758
12/28/16 18:00	13.794	13.800	13.795	13.795	13.828	13.812	13.788
12/28/16 20:00	13.837	13.850	13.831	13.837	13.864	13.855	13.830
12/28/16 22:00	13.868	13.862	13.866	13.857	13.916	13.886	13.852
12/29/16 0:00	13.893	13.898	13.896	13.896	13.922	13.911	13.889
12/29/16 2:00	13.906	13.922	13.905	13.914	13.966	13.925	13.907
12/29/16 4:00	13.919	13.917	13.924	13.918	13.987	13.939	13.912
12/29/16 6:00	13.935	13.944	13.944	13.947	13.975	13.955	13.939
12/29/16 8:00	13.954	13.971	13.958	13.966	14.012	13.973	13.960
12/29/16 10:00	13.976	13.975	13.984	13.980	14.037	13.996	13.974
12/29/16 12:00	13.970	13.989	13.977	13.988	14.038	13.991	13.979
12/29/16 14:00	13.947	13.950	13.958	13.955	14.056	13.968	13.947
12/29/16 16:00	13.936	13.946	13.948	13.951	14.016	13.956	13.942
12/29/16 18:00	13.930	13.947	13.934	13.944	14.014	13.950	13.935
12/29/16 20:00	13.927	13.930	13.936	13.933	14.011	13.946	13.926
12/29/16 22:00	13.918	13.929	13.932	13.934	13.994	13.938	13.927
12/30/16 0:00	13.895	13.913	13.903	13.913	13.996	13.914	13.904
12/30/16 2:00	13.860	13.864	13.873	13.870	13.982	13.879	13.864
12/30/16 4:00	13.819	13.829	13.834	13.836	13.928	13.837	13.828
12/30/16 6:00	13.782	13.800	13.791	13.800	13.896	13.799	13.791
12/30/16 8:00	13.754	13.757	13.769	13.766	13.867	13.773	13.759
12/30/16 10:00	13.727	13.740	13.744	13.748	13.822	13.746	13.739
12/30/16 12:00	13.685	13.706	13.698	13.707	13.811	13.705	13.698
12/30/16 14:00	13.625	13.633	13.639	13.637	13.774	13.646	13.630
12/30/16 16:00	13.596	13.606	13.608	13.613	13.698	13.614	13.603

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/30/16 18:00	13.576	13.592	13.580	13.588	13.675	13.594	13.581
12/30/16 20:00	13.578	13.581	13.587	13.584	13.658	13.598	13.577
12/30/16 22:00	13.578	13.586	13.587	13.592	13.646	13.596	13.583
12/31/16 0:00	13.605	13.623	13.610	13.621	13.654	13.624	13.612
12/31/16 2:00	13.621	13.624	13.632	13.628	13.692	13.639	13.621
12/31/16 4:00	13.640	13.651	13.654	13.657	13.688	13.659	13.649
12/31/16 6:00	13.664	13.681	13.671	13.678	13.718	13.681	13.671
12/31/16 8:00	13.689	13.692	13.702	13.699	13.750	13.707	13.692
12/31/16 10:00	13.714	13.726	13.731	13.733	13.757	13.733	13.726
12/31/16 12:00	13.712	13.734	13.725	13.734	13.798	13.733	13.725
12/31/16 14:00	13.698	13.704	13.712	13.710	13.802	13.718	13.702
12/31/16 16:00	13.690	13.703	13.705	13.708	13.767	13.710	13.699
12/31/16 18:00	13.692	13.710	13.700	13.709	13.772	13.711	13.701
12/31/16 20:00	13.708	13.712	13.722	13.719	13.777	13.727	13.711
12/31/16 22:00	13.712	13.724	13.728	13.730	13.779	13.730	13.722
1/1/17 0:00	13.705	13.725	13.715	13.724	13.792	13.722	13.716
1/1/17 2:00	13.698	13.700	13.712	13.708	13.793	13.714	13.701
1/1/17 4:00	13.693	13.704	13.710	13.714	13.767	13.710	13.704
1/1/17 6:00	13.691	13.710	13.704	13.711	13.773	13.709	13.703
1/1/17 8:00	13.691	13.697	13.708	13.705	13.779	13.710	13.698
1/1/17 10:00	13.693	13.709	13.713	13.714	13.762	13.713	13.706
1/1/17 12:00	13.669	13.690	13.683	13.692	13.779	13.690	13.682
1/1/17 14:00	13.628	13.635	13.645	13.641	13.759	13.650	13.634
1/1/17 16:00	13.612	13.627	13.629	13.630	13.699	13.633	13.623
1/1/17 18:00	13.618	13.636	13.625	13.634	13.697	13.637	13.626
1/1/17 20:00	13.626	13.630	13.637	13.633	13.703	13.644	13.626
1/1/17 22:00	13.629	13.642	13.644	13.646	13.697	13.647	13.638
1/2/17 0:00	13.629	13.649	13.640	13.647	13.711	13.649	13.640
1/2/17 2:00	13.612	13.619	13.628	13.624	13.715	13.633	13.616
1/2/17 4:00	13.613	13.625	13.629	13.630	13.684	13.633	13.622
1/2/17 6:00	13.603	13.621	13.609	13.617	13.694	13.621	13.610
1/2/17 8:00	13.624	13.628	13.635	13.629	13.691	13.643	13.622
1/2/17 10:00	13.639	13.651	13.651	13.651	13.693	13.657	13.644
1/2/17 12:00	13.637	13.655	13.642	13.649	13.716	13.656	13.641
1/2/17 14:00	13.628	13.631	13.637	13.629	13.723	13.647	13.622
1/2/17 16:00	13.666	13.675	13.677	13.675	13.695	13.685	13.668
1/2/17 18:00	13.700	13.716	13.701	13.708	13.745	13.718	13.698
1/2/17 20:00	13.732	13.735	13.738	13.730	13.781	13.751	13.723
1/2/17 22:00	13.764	13.772	13.772	13.771	13.795	13.782	13.763
1/3/17 0:00	13.788	13.803	13.788	13.792	13.840	13.806	13.787
1/3/17 2:00	13.801	13.802	13.807	13.798	13.869	13.818	13.792
1/3/17 4:00	13.816	13.824	13.825	13.826	13.867	13.834	13.819
1/3/17 6:00	13.832	13.848	13.838	13.845	13.893	13.849	13.838
1/3/17 8:00	13.866	13.872	13.880	13.876	13.914	13.884	13.870
1/3/17 10:00	13.894	13.907	13.911	13.911	13.937	13.911	13.904
1/3/17 12:00	13.894	13.913	13.905	13.914	13.974	13.912	13.905

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/3/17 14:00	13.885	13.892	13.902	13.899	13.983	13.905	13.891
1/3/17 16:00	13.885	13.897	13.902	13.904	13.956	13.903	13.896
1/3/17 18:00	13.891	13.910	13.903	13.911	13.969	13.910	13.902
1/3/17 20:00	13.910	13.918	13.926	13.922	13.979	13.927	13.915
1/3/17 22:00	13.909	13.922	13.928	13.930	13.980	13.927	13.921
1/4/17 0:00	13.905	13.924	13.919	13.925	13.994	13.923	13.918
1/4/17 2:00	13.903	13.910	13.921	13.917	13.993	13.919	13.909
1/4/17 4:00	13.906	13.922	13.927	13.928	13.978	13.923	13.919
1/4/17 6:00	13.897	13.917	13.912	13.918	13.991	13.914	13.910
1/4/17 8:00	13.893	13.902	13.913	13.909	13.984	13.911	13.903
1/4/17 10:00	13.874	13.890	13.896	13.897	13.970	13.892	13.889
1/4/17 12:00	13.848	13.871	13.867	13.874	13.961	13.868	13.865
1/4/17 14:00	13.805	13.815	13.826	13.822	13.942	13.824	13.815
1/4/17 16:00	13.789	13.806	13.812	13.814	13.882	13.808	13.805
1/4/17 18:00	13.800	13.822	13.817	13.823	13.874	13.818	13.815
1/4/17 20:00	13.822	13.831	13.841	13.836	13.891	13.839	13.830
1/4/17 22:00	13.817	13.836	13.841	13.842	13.896	13.837	13.833
1/5/17 0:00	13.825	13.845	13.842	13.848	13.907	13.842	13.839
1/5/17 2:00	13.817	13.827	13.838	13.836	13.914	13.835	13.827
1/5/17 4:00	13.811	13.826	13.832	13.831	13.896	13.827	13.824
1/5/17 6:00	13.832	13.856	13.851	13.856	13.897	13.850	13.847
1/5/17 8:00	13.845	13.854	13.865	13.863	13.922	13.862	13.854
1/5/17 10:00	13.849	13.865	13.871	13.871	13.923	13.866	13.863
1/5/17 12:00	13.855	13.878	13.875	13.880	13.935	13.874	13.871
1/5/17 14:00	13.825	13.838	13.848	13.844	13.949	13.845	13.837
1/5/17 16:00	13.834	13.853	13.858	13.859	13.904	13.853	13.850
1/5/17 18:00	13.843	13.863	13.861	13.864	13.921	13.859	13.857
1/5/17 20:00	13.852	13.860	13.872	13.869	13.935	13.868	13.861
1/5/17 22:00	13.864	13.879	13.884	13.883	13.927	13.878	13.875
1/6/17 0:00	13.857	13.876	13.874	13.878	13.950	13.872	13.870
1/6/17 2:00	13.864	13.872	13.882	13.880	13.946	13.878	13.872
1/6/17 4:00	13.869	13.890	13.897	13.898	13.942	13.885	13.888
1/6/17 6:00	13.864	13.878	13.882	13.881	13.964	13.876	13.875
1/6/17 8:00	13.870	13.892	13.892	13.890	13.947	13.885	13.883
1/6/17 10:00	13.886	13.896	13.904	13.904	13.964	13.900	13.897
1/6/17 12:00	13.887	13.904	13.910	13.912	13.964	13.904	13.903
1/6/17 14:00	13.866	13.890	13.893	13.891	13.977	13.884	13.882
1/6/17 16:00	13.874	13.892	13.898	13.897	13.962	13.895	13.890
1/6/17 18:00	13.887	13.905	13.913	13.913	13.956	13.905	13.904
1/6/17 20:00	13.908	13.930	13.930	13.931	13.977	13.923	13.922
1/6/17 22:00	13.915	13.927	13.935	13.934	14.001	13.931	13.927
1/7/17 0:00	13.923	13.942	13.947	13.947	13.997	13.939	13.939
1/7/17 2:00	13.934	13.958	13.958	13.956	14.012	13.951	13.948
1/7/17 4:00	13.963	13.978	13.984	13.983	14.027	13.980	13.977
1/7/17 6:00	13.972	13.992	13.997	13.997	14.047	13.990	13.989
1/7/17 8:00	14.002	14.026	14.027	14.026	14.062	14.020	14.018

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/7/17 10:00	14.029	14.045	14.053	14.053	14.099	14.047	14.046
1/7/17 12:00	14.037	14.058	14.064	14.064	14.115	14.057	14.057
1/7/17 14:00	14.024	14.050	14.051	14.050	14.128	14.043	14.041
1/7/17 16:00	14.020	14.039	14.046	14.046	14.123	14.041	14.038
1/7/17 18:00	14.019	14.042	14.047	14.047	14.107	14.040	14.039
1/7/17 20:00	14.027	14.053	14.055	14.054	14.115	14.046	14.045
1/7/17 22:00	14.029	14.045	14.052	14.050	14.125	14.046	14.044
1/8/17 0:00	13.995	14.017	14.022	14.023	14.111	14.014	14.013
1/8/17 2:00	13.968	13.994	13.995	13.994	14.090	13.987	13.986
1/8/17 4:00	13.954	13.972	13.980	13.982	14.065	13.975	13.973
1/8/17 6:00	13.894	13.915	13.921	13.920	14.045	13.913	13.912
1/8/17 8:00	13.883	13.905	13.906	13.907	13.988	13.899	13.898
1/8/17 10:00	13.870	13.886	13.894	13.893	13.976	13.888	13.885
1/8/17 12:00	13.845	13.868	13.875	13.875	13.957	13.866	13.866
1/8/17 14:00	13.814	13.844	13.844	13.844	13.939	13.837	13.835
1/8/17 16:00	13.828	13.845	13.852	13.851	13.918	13.850	13.845
1/8/17 18:00	13.840	13.861	13.866	13.867	13.914	13.860	13.859
1/8/17 20:00	13.852	13.877	13.877	13.877	13.930	13.872	13.869
1/8/17 22:00	13.858	13.875	13.881	13.880	13.951	13.878	13.873
1/9/17 0:00	13.858	13.879	13.883	13.884	13.943	13.877	13.876
1/9/17 2:00	13.835	13.861	13.862	13.863	13.953	13.855	13.853
1/9/17 4:00	13.805	13.820	13.828	13.827	13.934	13.823	13.820
1/9/17 6:00	13.766	13.789	13.794	13.795	13.888	13.786	13.785
1/9/17 8:00	13.744	13.770	13.770	13.770	13.861	13.765	13.762
1/9/17 10:00	13.711	13.729	13.735	13.736	13.842	13.732	13.728
1/9/17 12:00	13.666	13.690	13.693	13.695	13.800	13.688	13.686
1/9/17 14:00	13.606	13.633	13.632	13.630	13.759	13.627	13.624
1/9/17 16:00	13.586	13.599	13.605	13.606	13.703	13.607	13.600
1/9/17 18:00	13.570	13.584	13.591	13.593	13.668	13.589	13.584
1/9/17 20:00	13.550	13.575	13.570	13.570	13.655	13.569	13.562
1/9/17 22:00	13.512	13.524	13.528	13.530	13.646	13.532	13.523
1/10/17 0:00	13.479	13.495	13.498	13.499	13.590	13.497	13.491
1/10/17 2:00	13.457	13.476	13.472	13.469	13.563	13.470	13.463
1/10/17 4:00	13.458	13.467	13.471	13.473	13.549	13.466	13.466
1/10/17 6:00	13.509	13.525	13.527	13.527	13.533	13.530	13.521
1/10/17 8:00	13.589	13.612	13.605	13.602	13.597	13.608	13.596
1/10/17 10:00	13.657	13.662	13.666	13.667	13.682	13.676	13.661
1/10/17 12:00	13.683	13.696	13.698	13.698	13.730	13.703	13.692
1/10/17 14:00	13.659	13.682	13.675	13.674	13.766	13.678	13.665
1/10/17 16:00	13.659	13.665	13.667	13.667	13.751	13.679	13.662
1/10/17 18:00	13.662	13.675	13.677	13.677	13.730	13.683	13.671
1/10/17 20:00	13.641	13.664	13.655	13.654	13.743	13.661	13.646
1/10/17 22:00	13.630	13.636	13.636	13.637	13.735	13.650	13.633
1/11/17 0:00	13.613	13.626	13.627	13.629	13.700	13.633	13.621
1/11/17 2:00	13.585	13.609	13.602	13.602	13.693	13.606	13.593
1/11/17 4:00	13.556	13.561	13.562	13.567	13.680	13.576	13.561

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/11/17 6:00	13.521	13.534	13.535	13.539	13.625	13.540	13.530
1/11/17 8:00	13.516	13.536	13.529	13.531	13.605	13.531	13.522
1/11/17 10:00	13.591	13.595	13.599	13.601	13.606	13.607	13.595
1/11/17 12:00	13.629	13.643	13.649	13.652	13.659	13.649	13.643
1/11/17 14:00	13.630	13.652	13.647	13.647	13.714	13.647	13.639
1/11/17 16:00	13.645	13.653	13.657	13.659	13.722	13.664	13.653
1/11/17 18:00	13.663	13.679	13.684	13.686	13.721	13.684	13.677
1/11/17 20:00	13.692	13.714	13.710	13.710	13.749	13.708	13.703
1/11/17 22:00	13.715	13.725	13.730	13.732	13.783	13.732	13.724
1/12/17 0:00	13.734	13.749	13.754	13.755	13.792	13.750	13.747
1/12/17 2:00	13.759	13.782	13.781	13.780	13.820	13.775	13.772
1/12/17 4:00	13.777	13.789	13.795	13.796	13.855	13.793	13.788
1/12/17 6:00	13.794	13.812	13.816	13.817	13.858	13.810	13.809
1/12/17 8:00	13.834	13.856	13.855	13.855	13.881	13.848	13.847
1/12/17 10:00	13.877	13.893	13.900	13.899	13.928	13.896	13.892
1/12/17 12:00	13.891	13.910	13.917	13.917	13.961	13.911	13.910
1/12/17 14:00	13.889	13.916	13.916	13.916	13.984	13.911	13.908
1/12/17 16:00	13.921	13.938	13.944	13.944	13.989	13.941	13.936
1/12/17 18:00	13.933	13.955	13.959	13.961	14.004	13.953	13.951
1/12/17 20:00	13.945	13.970	13.971	13.969	14.028	13.964	13.961
1/12/17 22:00	13.964	13.980	13.986	13.984	14.042	13.983	13.978
1/13/17 0:00	13.967	13.988	13.992	13.992	14.051	13.986	13.984
1/13/17 2:00	13.977	14.002	14.003	14.000	14.060	13.996	13.994
1/13/17 4:00	13.991	14.008	14.014	14.014	14.074	14.010	14.006
1/13/17 6:00	13.987	14.009	14.014	14.014	14.078	14.007	14.006
1/13/17 8:00	13.993	14.019	14.019	14.018	14.081	14.011	14.010
1/13/17 10:00	14.017	14.034	14.042	14.040	14.093	14.037	14.034
1/13/17 12:00	14.004	14.028	14.032	14.033	14.105	14.026	14.025
1/13/17 14:00	13.977	14.005	14.005	14.004	14.099	13.999	13.996
1/13/17 16:00	13.974	13.991	13.998	13.997	14.079	13.994	13.990
1/13/17 18:00	13.972	13.993	13.999	13.998	14.060	13.993	13.991
1/13/17 20:00	13.980	14.006	14.007	14.006	14.068	14.000	13.998
1/13/17 22:00	13.987	14.004	14.011	14.009	14.079	14.007	14.004
1/14/17 0:00	13.981	14.003	14.010	14.010	14.073	14.002	14.001
1/14/17 2:00	13.977	14.004	14.005	14.004	14.078	13.998	13.996
1/14/17 4:00	13.969	13.988	13.994	13.995	14.075	13.990	13.987
1/14/17 6:00	13.970	13.993	13.996	13.998	14.059	13.991	13.989
1/14/17 8:00	13.969	13.997	13.997	13.996	14.065	13.990	13.988
1/14/17 10:00	13.990	14.009	14.015	14.014	14.072	14.011	14.008
1/14/17 12:00	13.967	13.990	13.995	13.996	14.079	13.990	13.987
1/14/17 14:00	13.938	13.967	13.965	13.966	14.060	13.961	13.957
1/14/17 16:00	13.934	13.950	13.955	13.956	14.039	13.955	13.948
1/14/17 18:00	13.932	13.954	13.958	13.958	14.017	13.953	13.949
1/14/17 20:00	13.933	13.959	13.957	13.957	14.026	13.954	13.949
1/14/17 22:00	13.925	13.942	13.947	13.948	14.031	13.947	13.941
1/15/17 0:00	13.926	13.948	13.952	13.953	14.008	13.948	13.944

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/15/17 2:00	13.898	13.924	13.923	13.923	14.021	13.919	13.914
1/15/17 4:00	13.888	13.902	13.909	13.910	13.995	13.909	13.902
1/15/17 6:00	13.881	13.903	13.906	13.908	13.974	13.902	13.899
1/15/17 8:00	13.865	13.892	13.890	13.890	13.974	13.877	13.882
1/15/17 10:00	13.874	13.887	13.894	13.895	13.962	13.882	13.888
1/15/17 12:00	13.842	13.857	13.862	13.865	13.956	13.865	13.857
1/15/17 14:00	13.816	13.839	13.830	13.831	13.928	13.836	13.824
1/15/17 16:00	13.800	13.800	13.800	13.804	13.911	13.818	13.800
1/15/17 18:00	13.788	13.794	13.794	13.799	13.866	13.808	13.792
1/15/17 20:00	13.788	13.801	13.786	13.789	13.867	13.795	13.782
1/15/17 22:00	13.781	13.745	13.748	13.755	13.871	13.797	13.753
1/16/17 0:00	13.768	13.749	13.742	13.751	13.811	13.771	13.745
1/16/17 2:00	13.739	13.735	13.720	13.722	13.811	13.715	13.716
1/16/17 4:00	13.711	13.632	13.641	13.651	13.807	13.705	13.648
1/16/17 6:00	13.683	13.560	13.554	13.545	13.704	13.582	13.539
1/16/17 8:00	13.695	13.480	13.479	13.415	13.612	13.443	13.423
1/16/17 10:00	13.691	13.340	13.317	13.287	13.568	13.379	13.282
1/16/17 12:00	13.699	13.351	13.360	13.317	13.373	13.379	13.312
1/16/17 14:00	13.697	13.340	13.361	13.277	13.412	13.284	13.292
1/16/17 16:00	13.714	13.254	13.261	13.244	13.428	13.293	13.228
1/16/17 18:00	13.738	13.334	13.365	13.335	13.331	13.345	13.322
1/16/17 20:00	13.756	13.391	13.412	13.351	13.413	13.322	13.352
1/16/17 22:00	13.762	13.307	13.320	13.303	13.477	13.347	13.291
1/17/17 0:00	13.771	13.395	13.422	13.397	13.383	13.407	13.382
1/17/17 2:00	13.778	13.442	13.461	13.406	13.465	13.373	13.407
1/17/17 4:00	13.782	13.371	13.373	13.369	13.527	13.407	13.354
1/17/17 6:00	13.789	13.455	13.479	13.456	13.438	13.462	13.443
1/17/17 8:00	13.797	13.516	13.527	13.476	13.536	13.441	13.476
1/17/17 10:00	13.806	13.435	13.435	13.434	13.610	13.468	13.420
1/17/17 12:00	13.798	13.452	13.475	13.458	13.499	13.477	13.444
1/17/17 14:00	13.779	13.381	13.404	13.352	13.525	13.329	13.357
1/17/17 16:00	13.784	13.261	13.269	13.253	13.480	13.311	13.244
1/17/17 18:00	13.780	13.340	13.360	13.333	13.321	13.339	13.321
1/17/17 20:00	13.778	13.371	13.379	13.320	13.406	13.284	13.324
1/17/17 22:00	13.790	13.304	13.295	13.280	13.459	13.327	13.272
1/18/17 0:00	13.788	13.392	13.399	13.375	13.352	13.389	13.362
1/18/17 2:00	13.787	13.420	13.421	13.365	13.456	13.329	13.370
1/18/17 4:00	13.770	13.328	13.304	13.302	13.503	13.349	13.289
1/18/17 6:00	13.750	13.387	13.388	13.365	13.364	13.381	13.354
1/18/17 8:00	13.749	13.428	13.424	13.370	13.448	13.331	13.374
1/18/17 10:00	13.747	13.313	13.292	13.292	13.508	13.339	13.276
1/18/17 12:00	13.733	13.355	13.357	13.333	13.353	13.354	13.322
1/18/17 14:00	13.699	13.317	13.301	13.241	13.411	13.225	13.245
1/18/17 16:00	13.687	13.196	13.161	13.142	13.383	13.198	13.133
1/18/17 18:00	13.674	13.272	13.249	13.216	13.227	13.232	13.206
1/18/17 20:00	13.669	13.306	13.275	13.210	13.312	13.183	13.215

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/18/17 22:00	13.658	13.195	13.151	13.126	13.372	13.199	13.118
1/19/17 0:00	13.645	13.258	13.234	13.203	13.222	13.271	13.189
1/19/17 2:00	13.633	13.270	13.243	13.178	13.300	13.217	13.184
1/19/17 4:00	13.617	13.136	13.108	13.093	13.338	13.217	13.082
1/19/17 6:00	13.605	13.200	13.197	13.166	13.173	13.253	13.154
1/19/17 8:00	13.593	13.229	13.219	13.156	13.260	13.198	13.161
1/19/17 10:00	13.593	13.119	13.101	13.095	13.307	13.217	13.078
1/19/17 12:00	13.580	13.204	13.212	13.180	13.160	13.260	13.170
1/19/17 14:00	13.558	13.266	13.255	13.189	13.268	13.228	13.196
1/19/17 16:00	13.560	13.195	13.188	13.165	13.339	13.266	13.160
1/19/17 18:00	13.560	13.274	13.287	13.252	13.247	13.315	13.243
1/19/17 20:00	13.550	13.334	13.328	13.265	13.337	13.294	13.269
1/19/17 22:00	13.549	13.239	13.249	13.218	13.413	13.311	13.216
1/20/17 0:00	13.545	13.318	13.334	13.301	13.298	13.353	13.291
1/20/17 2:00	13.529	13.371	13.372	13.312	13.384	13.413	13.312
1/20/17 4:00	13.524	13.271	13.291	13.268	13.450	13.417	13.262
1/20/17 6:00	13.519	13.338	13.362	13.327	13.332	13.433	13.316
1/20/17 8:00	13.509	13.395	13.393	13.337	13.412	13.426	13.335
1/20/17 10:00	13.508	13.301	13.326	13.308	13.480	13.428	13.299
1/20/17 12:00	13.493	13.355	13.383	13.351	13.365	13.427	13.340
1/20/17 14:00	13.466	13.387	13.383	13.336	13.428	13.396	13.330
1/20/17 16:00	13.453	13.260	13.288	13.269	13.461	13.377	13.261
1/20/17 18:00	13.472	13.354	13.385	13.356	13.329	13.435	13.347
1/20/17 20:00	13.474	13.427	13.424	13.384	13.430	13.447	13.376
1/20/17 22:00	13.479	13.356	13.393	13.373	13.500	13.409	13.367
1/21/17 0:00	13.480	13.398	13.425	13.399	13.432	13.455	13.388
1/21/17 2:00	13.479	13.447	13.442	13.406	13.473	13.452	13.396
1/21/17 4:00	13.481	13.373	13.409	13.394	13.522	13.457	13.387
1/21/17 6:00	13.489	13.421	13.447	13.422	13.446	13.431	13.412
1/21/17 8:00	13.494	13.477	13.469	13.435	13.501	13.485	13.424
1/21/17 10:00	13.499	13.405	13.438	13.423	13.550	13.478	13.417
1/21/17 12:00	13.499	13.435	13.464	13.443	13.479	13.492	13.430
1/21/17 14:00	13.475	13.466	13.454	13.425	13.512	13.466	13.413
1/21/17 16:00	13.482	13.434	13.448	13.435	13.535	13.479	13.431
1/21/17 18:00	13.499	13.484	13.490	13.478	13.504	13.500	13.467
1/21/17 20:00	13.518	13.531	13.514	13.498	13.552	13.516	13.487
1/21/17 22:00	13.537	13.514	13.519	13.511	13.596	13.537	13.507
1/22/17 0:00	13.558	13.549	13.552	13.540	13.581	13.559	13.531
1/22/17 2:00	13.566	13.579	13.565	13.549	13.616	13.567	13.538
1/22/17 4:00	13.594	13.572	13.577	13.572	13.649	13.597	13.565
1/22/17 6:00	13.611	13.602	13.607	13.595	13.638	13.624	13.585
1/22/17 8:00	13.640	13.655	13.641	13.625	13.670	13.653	13.614
1/22/17 10:00	13.672	13.654	13.661	13.656	13.724	13.686	13.649
1/22/17 12:00	13.682	13.676	13.683	13.673	13.719	13.700	13.663
1/22/17 14:00	13.673	13.690	13.675	13.661	13.747	13.689	13.651
1/22/17 16:00	13.682	13.667	13.670	13.664	13.759	13.697	13.660

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/22/17 18:00	13.691	13.688	13.691	13.683	13.730	13.706	13.673
1/22/17 20:00	13.698	13.716	13.702	13.690	13.757	13.713	13.680
1/22/17 22:00	13.702	13.692	13.694	13.690	13.784	13.717	13.686
1/23/17 0:00	13.707	13.708	13.711	13.703	13.759	13.722	13.693
1/23/17 2:00	13.694	13.711	13.699	13.687	13.776	13.708	13.678
1/23/17 4:00	13.684	13.675	13.678	13.676	13.778	13.700	13.670
1/23/17 6:00	13.674	13.676	13.679	13.672	13.742	13.692	13.663
1/23/17 8:00	13.669	13.688	13.676	13.665	13.744	13.684	13.655
1/23/17 10:00	13.667	13.659	13.665	13.662	13.758	13.683	13.656
1/23/17 12:00	13.631	13.633	13.638	13.633	13.726	13.649	13.622
1/23/17 14:00	13.583	13.607	13.594	13.583	13.700	13.602	13.573
1/23/17 16:00	13.573	13.566	13.569	13.566	13.677	13.589	13.560
1/23/17 18:00	13.574	13.575	13.580	13.572	13.632	13.593	13.564
1/23/17 20:00	13.579	13.599	13.587	13.575	13.646	13.598	13.566
1/23/17 22:00	13.575	13.569	13.572	13.569	13.668	13.594	13.564
1/24/17 0:00	13.565	13.567	13.569	13.563	13.635	13.582	13.554
1/24/17 2:00	13.544	13.564	13.552	13.541	13.638	13.563	13.532
1/24/17 4:00	13.517	13.516	13.518	13.518	13.633	13.539	13.510
1/24/17 6:00	13.508	13.510	13.513	13.506	13.584	13.526	13.497
1/24/17 8:00	13.500	13.522	13.510	13.498	13.580	13.521	13.490
1/24/17 10:00	13.507	13.501	13.504	13.502	13.590	13.525	13.497
1/24/17 12:00	13.495	13.498	13.502	13.494	13.569	13.514	13.487
1/24/17 14:00	13.490	13.510	13.499	13.488	13.566	13.508	13.479
1/24/17 16:00	13.519	13.512	13.515	13.512	13.582	13.536	13.508
1/24/17 18:00	13.544	13.545	13.549	13.543	13.579	13.562	13.535
1/24/17 20:00	13.568	13.588	13.576	13.567	13.617	13.586	13.557
1/24/17 22:00	13.586	13.582	13.585	13.582	13.658	13.604	13.578
1/25/17 0:00	13.609	13.614	13.617	13.610	13.648	13.629	13.602
1/25/17 2:00	13.638	13.658	13.646	13.637	13.686	13.655	13.629
1/25/17 4:00	13.660	13.655	13.657	13.656	13.728	13.677	13.650
1/25/17 6:00	13.676	13.678	13.681	13.675	13.724	13.692	13.667
1/25/17 8:00	13.699	13.718	13.708	13.698	13.748	13.715	13.690
1/25/17 10:00	13.720	13.716	13.720	13.720	13.786	13.737	13.714
1/25/17 12:00	13.731	13.735	13.741	13.736	13.785	13.751	13.726
1/25/17 14:00	13.729	13.750	13.740	13.730	13.804	13.748	13.723
1/25/17 16:00	13.750	13.747	13.751	13.750	13.822	13.768	13.744
1/25/17 18:00	13.773	13.777	13.781	13.776	13.814	13.791	13.767
1/25/17 20:00	13.783	13.804	13.792	13.784	13.848	13.800	13.775
1/25/17 22:00	13.790	13.786	13.789	13.788	13.873	13.808	13.783
1/26/17 0:00	13.807	13.811	13.814	13.809	13.853	13.824	13.800
1/26/17 2:00	13.811	13.832	13.821	13.813	13.884	13.828	13.803
1/26/17 4:00	13.814	13.812	13.815	13.815	13.901	13.832	13.809
1/26/17 6:00	13.817	13.823	13.827	13.822	13.882	13.835	13.813
1/26/17 8:00	13.831	13.853	13.843	13.834	13.894	13.849	13.825
1/26/17 10:00	13.843	13.842	13.847	13.846	13.921	13.861	13.841
1/26/17 12:00	13.838	13.845	13.852	13.847	13.911	13.859	13.839

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/26/17 14:00	13.822	13.846	13.837	13.829	13.914	13.844	13.820
1/26/17 16:00	13.820	13.821	13.825	13.824	13.919	13.840	13.818
1/26/17 18:00	13.827	13.833	13.839	13.833	13.890	13.847	13.825
1/26/17 20:00	13.840	13.862	13.852	13.845	13.901	13.858	13.834
1/26/17 22:00	13.844	13.844	13.847	13.845	13.932	13.862	13.840
1/27/17 0:00	13.849	13.856	13.859	13.853	13.909	13.867	13.845
1/27/17 2:00	13.845	13.867	13.858	13.850	13.928	13.864	13.840
1/27/17 4:00	13.848	13.848	13.851	13.852	13.938	13.866	13.845
1/27/17 6:00	13.849	13.858	13.861	13.856	13.917	13.868	13.848
1/27/17 8:00	13.857	13.879	13.870	13.863	13.929	13.875	13.853
1/27/17 10:00	13.857	13.859	13.862	13.864	13.948	13.877	13.856
1/27/17 12:00	13.844	13.851	13.858	13.854	13.927	13.864	13.845
1/27/17 14:00	13.813	13.838	13.830	13.823	13.922	13.835	13.814
1/27/17 16:00	13.809	13.810	13.815	13.814	13.911	13.828	13.808
1/27/17 18:00	13.810	13.816	13.822	13.817	13.879	13.829	13.809
1/27/17 20:00	13.819	13.841	13.832	13.825	13.886	13.838	13.816
1/27/17 22:00	13.827	13.828	13.831	13.830	13.913	13.846	13.824
1/28/17 0:00	13.839	13.846	13.850	13.845	13.894	13.858	13.837
1/28/17 2:00	13.836	13.859	13.850	13.842	13.920	13.856	13.833
1/28/17 4:00	13.834	13.834	13.838	13.838	13.928	13.852	13.831
1/28/17 6:00	13.828	13.835	13.840	13.835	13.900	13.847	13.826
1/28/17 8:00	13.828	13.852	13.843	13.836	13.907	13.849	13.826
1/28/17 10:00	13.829	13.833	13.837	13.837	13.921	13.850	13.831
1/28/17 12:00	13.822	13.831	13.837	13.834	13.902	13.845	13.824
1/28/17 14:00	13.794	13.819	13.810	13.804	13.902	13.816	13.793
1/28/17 16:00	13.784	13.788	13.790	13.791	13.892	13.805	13.785
1/28/17 18:00	13.780	13.786	13.792	13.788	13.856	13.800	13.779
1/28/17 20:00	13.793	13.816	13.807	13.799	13.857	13.813	13.790
1/28/17 22:00	13.799	13.802	13.804	13.803	13.888	13.819	13.797
1/29/17 0:00	13.812	13.821	13.824	13.819	13.869	13.832	13.811
1/29/17 2:00	13.804	13.827	13.817	13.810	13.891	13.823	13.800
1/29/17 4:00	13.805	13.808	13.811	13.812	13.897	13.826	13.804
1/29/17 6:00	13.799	13.809	13.812	13.807	13.875	13.821	13.799
1/29/17 8:00	13.797	13.821	13.811	13.804	13.882	13.818	13.794
1/29/17 10:00	13.802	13.804	13.807	13.808	13.891	13.821	13.800
1/29/17 12:00	13.803	13.807	13.813	13.809	13.870	13.822	13.800
1/29/17 14:00	13.798	13.819	13.808	13.802	13.880	13.815	13.792
1/29/17 16:00	13.796	13.798	13.800	13.800	13.888	13.816	13.795
1/29/17 18:00	13.798	13.807	13.812	13.808	13.868	13.820	13.798
1/29/17 20:00	13.798	13.821	13.812	13.805	13.878	13.819	13.795
1/29/17 22:00	13.796	13.800	13.802	13.800	13.890	13.816	13.795
1/30/17 0:00	13.785	13.796	13.798	13.794	13.868	13.805	13.784
1/30/17 2:00	13.772	13.797	13.787	13.780	13.864	13.792	13.769
1/30/17 4:00	13.759	13.761	13.763	13.764	13.868	13.779	13.758
1/30/17 6:00	13.741	13.751	13.754	13.749	13.829	13.762	13.740
1/30/17 8:00	13.737	13.762	13.752	13.746	13.825	13.758	13.736

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/30/17 10:00	13.736	13.738	13.742	13.741	13.832	13.755	13.735
1/30/17 12:00	13.735	13.752	13.741	13.744	13.806	13.754	13.734
1/30/17 14:00	13.726	13.750	13.755	13.751	13.824	13.743	13.748
1/30/17 16:00	13.724	13.725	13.731	13.722	13.825	13.740	13.714
1/30/17 18:00	13.719	13.730	13.727	13.732	13.796	13.740	13.723
1/30/17 20:00	13.721	13.744	13.737	13.733	13.801	13.742	13.724
1/30/17 22:00	13.727	13.733	13.739	13.731	13.812	13.747	13.724
1/31/17 0:00	13.743	13.752	13.748	13.752	13.804	13.760	13.744
1/31/17 2:00	13.742	13.765	13.759	13.754	13.821	13.762	13.745
1/31/17 4:00	13.739	13.744	13.751	13.742	13.837	13.758	13.735
1/31/17 6:00	13.748	13.758	13.757	13.761	13.814	13.767	13.752
1/31/17 8:00	13.746	13.768	13.762	13.757	13.828	13.765	13.749
1/31/17 10:00	13.759	13.767	13.774	13.764	13.839	13.780	13.759
1/31/17 12:00	13.748	13.761	13.758	13.763	13.835	13.770	13.754
1/31/17 14:00	13.717	13.740	13.734	13.730	13.833	13.739	13.722
1/31/17 16:00	13.707	13.709	13.718	13.708	13.812	13.725	13.703
1/31/17 18:00	13.711	13.721	13.719	13.723	13.779	13.731	13.715
1/31/17 20:00	13.735	13.758	13.753	13.748	13.792	13.756	13.741
1/31/17 22:00	13.748	13.756	13.762	13.755	13.829	13.769	13.748
2/1/17 0:00	13.775	13.787	13.785	13.788	13.828	13.796	13.781
2/1/17 2:00	13.789	13.810	13.805	13.800	13.858	13.808	13.792
2/1/17 4:00	13.800	13.802	13.811	13.801	13.879	13.818	13.796
2/1/17 6:00	13.831	13.841	13.839	13.843	13.873	13.851	13.836
2/1/17 8:00	13.838	13.863	13.857	13.853	13.911	13.860	13.845
2/1/17 10:00	13.863	13.872	13.878	13.870	13.935	13.884	13.864
2/1/17 12:00	13.883	13.893	13.891	13.896	13.941	13.903	13.889
2/1/17 14:00	13.877	13.902	13.895	13.891	13.967	13.899	13.883
2/1/17 16:00	13.887	13.897	13.903	13.895	13.973	13.908	13.889
2/1/17 18:00	13.914	13.928	13.926	13.931	13.965	13.936	13.922
2/1/17 20:00	13.949	13.970	13.965	13.961	13.999	13.967	13.953
2/1/17 22:00	13.967	13.973	13.980	13.973	14.040	13.986	13.967
2/2/17 0:00	13.971	13.982	13.980	13.985	14.045	13.991	13.978
2/2/17 2:00	13.975	13.997	13.992	13.988	14.053	13.995	13.980
2/2/17 4:00	13.974	13.980	13.988	13.981	14.066	13.993	13.975
2/2/17 6:00	13.983	13.989	13.990	13.992	14.052	13.999	13.986
2/2/17 8:00	14.003	14.024	14.020	14.016	14.060	14.021	14.008
2/2/17 10:00	14.004	14.011	14.020	14.013	14.097	14.025	14.006
2/2/17 12:00	13.988	14.001	14.000	14.005	14.080	14.009	13.997
2/2/17 14:00	13.955	13.980	13.975	13.972	14.070	13.977	13.964
2/2/17 16:00	13.937	13.945	13.952	13.946	14.052	13.957	13.938
2/2/17 18:00	13.928	13.940	13.939	13.944	14.013	13.948	13.936
2/2/17 20:00	13.932	13.955	13.950	13.947	14.012	13.952	13.938
2/2/17 22:00	13.939	13.947	13.954	13.948	14.026	13.960	13.941
2/3/17 0:00	13.953	13.964	13.963	13.967	14.014	13.972	13.960
2/3/17 2:00	13.963	13.985	13.981	13.978	14.035	13.983	13.970
2/3/17 4:00	13.972	13.980	13.988	13.981	14.056	13.992	13.975

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/3/17 6:00	13.985	13.997	13.996	14.000	14.048	14.004	13.993
2/3/17 8:00	14.002	14.026	14.021	14.017	14.068	14.022	14.010
2/3/17 10:00	14.012	14.021	14.029	14.022	14.096	14.033	14.016
2/3/17 12:00	14.000	14.012	14.013	14.018	14.092	14.021	14.009
2/3/17 14:00	13.956	13.983	13.977	13.975	14.083	13.978	13.966
2/3/17 16:00	13.931	13.940	13.948	13.943	14.055	13.953	13.936
2/3/17 18:00	13.910	13.923	13.923	13.927	14.010	13.931	13.919
2/3/17 20:00	13.889	13.913	13.909	13.905	13.993	13.910	13.897
2/3/17 22:00	13.871	13.878	13.887	13.880	13.984	13.891	13.874
2/4/17 0:00	13.838	13.847	13.847	13.851	13.948	13.856	13.844
2/4/17 2:00	13.799	13.823	13.819	13.816	13.921	13.820	13.808
2/4/17 4:00	13.763	13.770	13.779	13.772	13.893	13.782	13.766
2/4/17 6:00	13.737	13.747	13.748	13.751	13.838	13.756	13.746
2/4/17 8:00	13.714	13.737	13.734	13.731	13.819	13.733	13.724
2/4/17 10:00	13.696	13.704	13.713	13.707	13.807	13.716	13.701
2/4/17 12:00	13.679	13.693	13.693	13.698	13.776	13.701	13.691
2/4/17 14:00	13.647	13.672	13.668	13.665	13.764	13.669	13.657
2/4/17 16:00	13.648	13.653	13.660	13.654	13.746	13.664	13.647
2/4/17 18:00	13.662	13.672	13.671	13.676	13.723	13.680	13.669
2/4/17 20:00	13.681	13.704	13.699	13.696	13.741	13.701	13.688
2/4/17 22:00	13.698	13.704	13.713	13.706	13.776	13.717	13.700
2/5/17 0:00	13.738	13.748	13.748	13.751	13.773	13.756	13.744
2/5/17 2:00	13.747	13.769	13.764	13.760	13.821	13.765	13.753
2/5/17 4:00	13.762	13.769	13.777	13.771	13.839	13.782	13.764
2/5/17 6:00	13.771	13.782	13.781	13.786	13.837	13.790	13.779
2/5/17 8:00	13.793	13.815	13.811	13.807	13.854	13.812	13.800
2/5/17 10:00	13.790	13.799	13.806	13.801	13.886	13.810	13.794
2/5/17 12:00	13.778	13.792	13.791	13.797	13.870	13.799	13.789
2/5/17 14:00	13.741	13.765	13.761	13.758	13.863	13.763	13.751
2/5/17 16:00	13.725	13.734	13.740	13.735	13.834	13.745	13.728
2/5/17 18:00	13.725	13.737	13.737	13.742	13.804	13.745	13.734
2/5/17 20:00	13.725	13.746	13.741	13.738	13.807	13.744	13.731
2/5/17 22:00	13.718	13.725	13.732	13.727	13.818	13.737	13.720
2/6/17 0:00	13.700	13.710	13.708	13.714	13.796	13.718	13.707
2/6/17 2:00	13.675	13.698	13.693	13.691	13.783	13.694	13.683
2/6/17 4:00	13.663	13.671	13.678	13.672	13.768	13.682	13.666
2/6/17 6:00	13.642	13.653	13.653	13.657	13.740	13.660	13.650
2/6/17 8:00	13.617	13.639	13.634	13.630	13.725	13.635	13.624
2/6/17 10:00	13.611	13.620	13.628	13.622	13.709	13.628	13.616
2/6/17 12:00	13.570	13.585	13.585	13.590	13.693	13.593	13.582
2/6/17 14:00	13.537	13.561	13.556	13.554	13.655	13.558	13.547
2/6/17 16:00	13.521	13.529	13.537	13.532	13.630	13.541	13.525
2/6/17 18:00	13.523	13.533	13.533	13.537	13.601	13.542	13.531
2/6/17 20:00	13.537	13.560	13.555	13.552	13.604	13.557	13.546
2/6/17 22:00	13.537	13.545	13.552	13.546	13.633	13.556	13.540
2/7/17 0:00	13.538	13.549	13.548	13.554	13.614	13.557	13.546

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/7/17 2:00	13.536	13.558	13.554	13.551	13.618	13.555	13.544
2/7/17 4:00	13.554	13.561	13.569	13.563	13.631	13.573	13.557
2/7/17 6:00	13.572	13.583	13.583	13.587	13.631	13.591	13.581
2/7/17 8:00	13.591	13.613	13.609	13.606	13.656	13.610	13.599
2/7/17 10:00	13.636	13.643	13.651	13.644	13.685	13.654	13.640
2/7/17 12:00	13.659	13.673	13.671	13.677	13.716	13.679	13.669
2/7/17 14:00	13.639	13.665	13.662	13.659	13.742	13.662	13.652
2/7/17 16:00	13.637	13.646	13.653	13.648	13.735	13.657	13.643
2/7/17 18:00	13.650	13.661	13.661	13.665	13.717	13.669	13.660
2/7/17 20:00	13.661	13.684	13.679	13.678	13.732	13.680	13.671
2/7/17 22:00	13.664	13.677	13.682	13.681	13.756	13.685	13.672
2/8/17 0:00	13.693	13.707	13.707	13.712	13.744	13.714	13.705
2/8/17 2:00	13.685	13.709	13.706	13.703	13.776	13.707	13.697
2/8/17 4:00	13.686	13.695	13.704	13.699	13.782	13.707	13.693
2/8/17 6:00	13.750	13.757	13.759	13.760	13.765	13.765	13.757
2/8/17 8:00	13.787	13.805	13.802	13.799	13.830	13.803	13.794
2/8/17 10:00	13.825	13.833	13.842	13.837	13.877	13.844	13.831
2/8/17 12:00	13.846	13.862	13.862	13.867	13.902	13.868	13.860
2/8/17 14:00	13.834	13.858	13.855	13.853	13.934	13.856	13.846
2/8/17 16:00	13.841	13.851	13.859	13.853	13.929	13.861	13.848
2/8/17 18:00	13.843	13.854	13.854	13.861	13.923	13.861	13.853
2/8/17 20:00	13.867	13.885	13.881	13.879	13.926	13.882	13.873
2/8/17 22:00	13.885	13.893	13.899	13.895	13.954	13.902	13.889
2/9/17 0:00	13.876	13.888	13.888	13.894	13.963	13.895	13.886
2/9/17 2:00	13.887	13.908	13.904	13.904	13.958	13.904	13.896
2/9/17 4:00	13.881	13.892	13.899	13.896	13.981	13.901	13.889
2/9/17 6:00	13.876	13.889	13.889	13.896	13.961	13.895	13.887
2/9/17 8:00	13.882	13.906	13.903	13.902	13.957	13.902	13.894
2/9/17 10:00	13.878	13.888	13.897	13.892	13.977	13.898	13.886
2/9/17 12:00	13.842	13.860	13.861	13.866	13.957	13.866	13.858
2/9/17 14:00	13.797	13.821	13.818	13.819	13.933	13.819	13.810
2/9/17 16:00	13.761	13.772	13.780	13.776	13.892	13.783	13.770
2/9/17 18:00	13.751	13.764	13.765	13.770	13.844	13.771	13.763
2/9/17 20:00	13.725	13.749	13.745	13.743	13.836	13.746	13.736
2/9/17 22:00	13.702	13.714	13.720	13.717	13.818	13.723	13.710
2/10/17 0:00	13.676	13.689	13.689	13.695	13.784	13.695	13.687
2/10/17 2:00	13.653	13.676	13.673	13.671	13.759	13.674	13.663
2/10/17 4:00	13.629	13.639	13.647	13.642	13.749	13.649	13.636
2/10/17 6:00	13.623	13.632	13.633	13.639	13.709	13.640	13.631
2/10/17 8:00	13.626	13.649	13.647	13.643	13.702	13.645	13.637
2/10/17 10:00	13.625	13.638	13.644	13.641	13.721	13.647	13.634
2/10/17 12:00	13.623	13.638	13.637	13.643	13.706	13.644	13.636
2/10/17 14:00	13.611	13.631	13.626	13.625	13.709	13.627	13.618
2/10/17 16:00	13.610	13.615	13.623	13.617	13.701	13.625	13.612
2/10/17 18:00	13.612	13.622	13.622	13.628	13.682	13.630	13.621
2/10/17 20:00	13.617	13.643	13.639	13.637	13.694	13.639	13.631

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/10/17 22:00	13.614	13.626	13.633	13.630	13.712	13.636	13.624
2/11/17 0:00	13.605	13.618	13.619	13.625	13.697	13.625	13.618
2/11/17 2:00	13.606	13.631	13.628	13.627	13.689	13.628	13.619
2/11/17 4:00	13.612	13.623	13.630	13.626	13.703	13.633	13.621
2/11/17 6:00	13.637	13.648	13.649	13.654	13.693	13.656	13.649
2/11/17 8:00	13.665	13.688	13.684	13.682	13.719	13.684	13.676
2/11/17 10:00	13.673	13.684	13.692	13.688	13.759	13.693	13.682
2/11/17 12:00	13.677	13.689	13.688	13.696	13.753	13.695	13.687
2/11/17 14:00	13.670	13.687	13.684	13.684	13.761	13.683	13.676
2/11/17 16:00	13.681	13.686	13.693	13.692	13.757	13.695	13.686
2/11/17 18:00	13.717	13.727	13.728	13.735	13.755	13.734	13.730
2/11/17 20:00	13.765	13.788	13.785	13.784	13.800	13.784	13.778
2/11/17 22:00	13.798	13.812	13.818	13.815	13.858	13.820	13.811
2/12/17 0:00	13.842	13.855	13.855	13.863	13.883	13.862	13.858
2/12/17 2:00	13.891	13.916	13.913	13.913	13.927	13.912	13.908
2/12/17 4:00	13.920	13.931	13.938	13.935	13.985	13.940	13.931
2/12/17 6:00	13.949	13.962	13.962	13.970	14.002	13.969	13.963
2/12/17 8:00	13.979	14.003	14.000	14.001	14.031	13.999	13.995
2/12/17 10:00	14.004	14.017	14.025	14.022	14.077	14.026	14.017
2/12/17 12:00	14.009	14.023	14.024	14.032	14.087	14.031	14.025
2/12/17 14:00	13.991	14.016	14.013	14.014	14.096	14.012	14.007
2/12/17 16:00	13.974	13.986	13.993	13.992	14.087	13.994	13.985
2/12/17 18:00	13.963	13.978	13.978	13.986	14.053	13.983	13.979
2/12/17 20:00	13.956	13.981	13.979	13.980	14.050	13.977	13.973
2/12/17 22:00	13.948	13.962	13.969	13.968	14.051	13.970	13.961
2/13/17 0:00	13.937	13.951	13.952	13.960	14.033	13.957	13.953
2/13/17 2:00	13.919	13.944	13.940	13.941	14.023	13.939	13.935
2/13/17 4:00	13.906	13.918	13.926	13.924	14.012	13.927	13.919
2/13/17 6:00	13.897	13.912	13.911	13.920	13.989	13.917	13.913
2/13/17 8:00	13.898	13.922	13.920	13.920	13.982	13.917	13.913
2/13/17 10:00	13.876	13.893	13.899	13.897	13.995	13.900	13.891
2/13/17 12:00	13.856	13.874	13.874	13.881	13.961	13.878	13.873
2/13/17 14:00	13.827	13.854	13.851	13.852	13.943	13.850	13.844
2/13/17 16:00	13.803	13.819	13.826	13.825	13.926	13.827	13.819
2/13/17 18:00	13.802	13.818	13.818	13.827	13.888	13.824	13.819
2/13/17 20:00	13.805	13.830	13.827	13.828	13.891	13.825	13.821
2/13/17 22:00	13.799	13.811	13.820	13.817	13.900	13.820	13.812
2/14/17 0:00	13.802	13.816	13.817	13.824	13.880	13.821	13.817
2/14/17 2:00	13.797	13.821	13.818	13.819	13.888	13.816	13.811
2/14/17 4:00	13.801	13.813	13.820	13.818	13.891	13.821	13.813
2/14/17 6:00	13.812	13.826	13.828	13.835	13.885	13.832	13.828
2/14/17 8:00	13.831	13.856	13.854	13.855	13.898	13.853	13.848
2/14/17 10:00	13.818	13.832	13.840	13.839	13.926	13.840	13.832
2/14/17 12:00	13.808	13.824	13.825	13.833	13.903	13.830	13.826
2/14/17 14:00	13.784	13.808	13.805	13.807	13.893	13.803	13.799
2/14/17 16:00	13.779	13.790	13.799	13.797	13.881	13.799	13.792

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/14/17 18:00	13.788	13.803	13.803	13.810	13.860	13.808	13.804
2/14/17 20:00	13.801	13.825	13.821	13.822	13.871	13.821	13.816
2/14/17 22:00	13.821	13.833	13.842	13.839	13.896	13.841	13.833
2/15/17 0:00	13.824	13.838	13.840	13.845	13.902	13.844	13.840
2/15/17 2:00	13.824	13.849	13.847	13.847	13.911	13.844	13.840
2/15/17 4:00	13.814	13.826	13.833	13.832	13.919	13.834	13.826
2/15/17 6:00	13.821	13.835	13.835	13.842	13.898	13.840	13.836
2/15/17 8:00	13.824	13.848	13.847	13.846	13.906	13.844	13.840
2/15/17 10:00	13.820	13.834	13.842	13.841	13.918	13.842	13.834
2/15/17 12:00	13.797	13.813	13.814	13.821	13.906	13.819	13.814
2/15/17 14:00	13.761	13.786	13.783	13.784	13.883	13.781	13.776
2/15/17 16:00	13.730	13.740	13.747	13.747	13.858	13.748	13.740
2/15/17 18:00	13.712	13.725	13.726	13.734	13.810	13.731	13.727
2/15/17 20:00	13.706	13.732	13.729	13.730	13.795	13.727	13.723
2/15/17 22:00	13.702	13.714	13.722	13.720	13.804	13.722	13.714
2/16/17 0:00	13.693	13.708	13.709	13.716	13.783	13.714	13.710
2/16/17 2:00	13.681	13.706	13.703	13.704	13.780	13.701	13.698
2/16/17 4:00	13.666	13.678	13.685	13.684	13.777	13.685	13.678
2/16/17 6:00	13.658	13.674	13.674	13.683	13.751	13.679	13.675
2/16/17 8:00	13.656	13.680	13.677	13.678	13.746	13.676	13.671
2/16/17 10:00	13.654	13.668	13.676	13.674	13.750	13.676	13.669
2/16/17 12:00	13.641	13.653	13.655	13.662	13.739	13.658	13.655
2/16/17 14:00	13.609	13.629	13.626	13.627	13.724	13.624	13.620
2/16/17 16:00	13.603	13.605	13.613	13.612	13.701	13.613	13.605
2/16/17 18:00	13.590	13.600	13.601	13.609	13.675	13.606	13.602
2/16/17 20:00	13.581	13.608	13.605	13.606	13.670	13.604	13.599
2/16/17 22:00	13.578	13.591	13.599	13.597	13.679	13.599	13.591
2/17/17 0:00	13.569	13.584	13.584	13.592	13.660	13.589	13.586
2/17/17 2:00	13.565	13.591	13.589	13.590	13.657	13.587	13.583
2/17/17 4:00	13.562	13.575	13.584	13.583	13.662	13.583	13.576
2/17/17 6:00	13.566	13.580	13.582	13.589	13.643	13.586	13.582
2/17/17 8:00	13.574	13.596	13.594	13.595	13.652	13.592	13.588
2/17/17 10:00	13.583	13.595	13.604	13.601	13.666	13.604	13.597
2/17/17 12:00	13.578	13.591	13.592	13.600	13.668	13.596	13.592
2/17/17 14:00	13.564	13.579	13.578	13.578	13.662	13.576	13.571
2/17/17 16:00	13.569	13.568	13.575	13.574	13.652	13.576	13.568
2/17/17 18:00	13.572	13.581	13.583	13.591	13.638	13.588	13.584
2/17/17 20:00	13.585	13.611	13.609	13.609	13.651	13.607	13.603
2/17/17 22:00	13.611	13.624	13.632	13.631	13.683	13.632	13.625
2/18/17 0:00	13.622	13.638	13.639	13.647	13.694	13.644	13.640
2/18/17 2:00	13.626	13.652	13.650	13.650	13.710	13.647	13.643
2/18/17 4:00	13.629	13.641	13.650	13.649	13.723	13.649	13.642
2/18/17 6:00	13.641	13.655	13.656	13.663	13.713	13.660	13.657
2/18/17 8:00	13.650	13.675	13.673	13.673	13.727	13.671	13.667
2/18/17 10:00	13.666	13.680	13.688	13.687	13.745	13.688	13.681
2/18/17 12:00	13.656	13.670	13.670	13.678	13.752	13.675	13.672

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/18/17 14:00	13.630	13.650	13.648	13.648	13.740	13.645	13.641
2/18/17 16:00	13.630	13.632	13.641	13.639	13.719	13.641	13.633
2/18/17 18:00	13.625	13.638	13.640	13.646	13.704	13.644	13.640
2/18/17 20:00	13.622	13.647	13.645	13.646	13.708	13.644	13.640
2/18/17 22:00	13.636	13.647	13.656	13.655	13.720	13.656	13.649
2/19/17 0:00	13.642	13.657	13.659	13.666	13.718	13.662	13.659
2/19/17 2:00	13.654	13.679	13.677	13.677	13.730	13.675	13.670
2/19/17 4:00	13.659	13.671	13.679	13.676	13.751	13.679	13.672
2/19/17 6:00	13.659	13.673	13.675	13.682	13.741	13.680	13.675
2/19/17 8:00	13.671	13.696	13.694	13.694	13.747	13.692	13.687
2/19/17 10:00	13.665	13.676	13.685	13.683	13.767	13.685	13.678
2/19/17 12:00	13.661	13.674	13.675	13.682	13.745	13.678	13.675
2/19/17 14:00	13.629	13.646	13.644	13.646	13.746	13.642	13.638
2/19/17 16:00	13.621	13.626	13.634	13.631	13.717	13.634	13.626
2/19/17 18:00	13.626	13.635	13.637	13.643	13.697	13.642	13.637
2/19/17 20:00	13.628	13.653	13.650	13.652	13.708	13.649	13.644
2/19/17 22:00	13.634	13.645	13.654	13.652	13.722	13.653	13.647
2/20/17 0:00	13.606	13.622	13.622	13.629	13.717	13.625	13.621
2/20/17 2:00	13.596	13.623	13.623	13.622	13.690	13.619	13.616
2/20/17 4:00	13.606	13.617	13.625	13.624	13.697	13.626	13.619
2/20/17 6:00	13.605	13.619	13.621	13.629	13.688	13.625	13.622
2/20/17 8:00	13.626	13.651	13.649	13.650	13.689	13.648	13.643
2/20/17 10:00	13.638	13.653	13.661	13.661	13.723	13.661	13.653
2/20/17 12:00	13.656	13.668	13.669	13.677	13.721	13.674	13.671
2/20/17 14:00	13.661	13.681	13.679	13.679	13.741	13.676	13.673
2/20/17 16:00	13.697	13.701	13.710	13.709	13.752	13.709	13.702
2/20/17 18:00	13.722	13.733	13.734	13.741	13.769	13.739	13.735
2/20/17 20:00	13.737	13.761	13.760	13.761	13.805	13.758	13.754
2/20/17 22:00	13.742	13.756	13.764	13.762	13.832	13.763	13.757
2/21/17 0:00	13.743	13.758	13.760	13.767	13.828	13.764	13.761
2/21/17 2:00	13.740	13.765	13.763	13.762	13.829	13.761	13.756
2/21/17 4:00	13.750	13.764	13.772	13.771	13.838	13.771	13.765
2/21/17 6:00	13.751	13.766	13.768	13.774	13.834	13.771	13.768
2/21/17 8:00	13.758	13.781	13.779	13.780	13.835	13.777	13.774
2/21/17 10:00	13.758	13.776	13.784	13.782	13.854	13.783	13.776
2/21/17 12:00	13.739	13.752	13.754	13.761	13.844	13.757	13.754
2/21/17 14:00	13.706	13.726	13.723	13.723	13.826	13.721	13.716
2/21/17 16:00	13.689	13.690	13.699	13.697	13.796	13.698	13.691
2/21/17 18:00	13.678	13.685	13.687	13.695	13.758	13.691	13.687
2/21/17 20:00	13.665	13.692	13.690	13.690	13.758	13.687	13.683
2/21/17 22:00	13.659	13.674	13.681	13.680	13.761	13.681	13.675
2/22/17 0:00	13.640	13.655	13.658	13.665	13.745	13.661	13.657
2/22/17 2:00	13.629	13.655	13.654	13.655	13.727	13.651	13.648
2/22/17 4:00	13.607	13.621	13.629	13.628	13.724	13.628	13.622
2/22/17 6:00	13.610	13.628	13.630	13.637	13.692	13.631	13.629
2/22/17 8:00	13.627	13.653	13.651	13.651	13.697	13.648	13.645

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/22/17 10:00	13.639	13.652	13.661	13.659	13.725	13.659	13.653
2/22/17 12:00	13.639	13.648	13.649	13.657	13.722	13.653	13.649
2/22/17 14:00	13.621	13.635	13.633	13.633	13.717	13.630	13.627
2/22/17 16:00	13.617	13.620	13.629	13.628	13.706	13.628	13.622
2/22/17 18:00	13.614	13.624	13.626	13.633	13.690	13.630	13.627
2/22/17 20:00	13.611	13.640	13.637	13.637	13.697	13.634	13.630
2/22/17 22:00	13.618	13.632	13.642	13.639	13.708	13.641	13.634
2/23/17 0:00	13.612	13.629	13.632	13.638	13.701	13.635	13.632
2/23/17 2:00	13.609	13.635	13.634	13.634	13.701	13.630	13.627
2/23/17 4:00	13.603	13.617	13.628	13.625	13.704	13.626	13.620
2/23/17 6:00	13.593	13.610	13.612	13.619	13.690	13.615	13.613
2/23/17 8:00	13.580	13.610	13.609	13.610	13.680	13.605	13.602
2/23/17 10:00	13.574	13.588	13.597	13.595	13.682	13.595	13.589
2/23/17 12:00	13.551	13.567	13.569	13.575	13.658	13.572	13.569
2/23/17 14:00	13.522	13.550	13.547	13.549	13.637	13.545	13.541
2/23/17 16:00	13.530	13.543	13.553	13.550	13.621	13.551	13.545
2/23/17 18:00	13.544	13.550	13.557	13.560	13.614	13.558	13.556
2/23/17 20:00	13.591	13.614	13.614	13.613	13.628	13.611	13.607
2/23/17 22:00	13.604	13.616	13.628	13.626	13.687	13.626	13.620
2/24/17 0:00	13.621	13.632	13.638	13.643	13.687	13.640	13.636
2/24/17 2:00	13.629	13.651	13.652	13.651	13.707	13.648	13.644
2/24/17 4:00	13.641	13.651	13.663	13.661	13.722	13.661	13.654
2/24/17 6:00	13.657	13.668	13.673	13.678	13.726	13.675	13.672
2/24/17 8:00	13.684	13.708	13.708	13.707	13.740	13.704	13.700
2/24/17 10:00	13.716	13.725	13.737	13.734	13.778	13.727	13.728
2/24/17 12:00	13.732	13.745	13.751	13.755	13.801	13.750	13.749
2/24/17 14:00	13.739	13.765	13.764	13.763	13.819	13.761	13.756
2/24/17 16:00	13.764	13.773	13.786	13.783	13.834	13.785	13.777
2/24/17 18:00	13.789	13.802	13.806	13.812	13.847	13.809	13.805
2/24/17 20:00	13.816	13.839	13.839	13.838	13.874	13.835	13.831
2/24/17 22:00	13.826	13.834	13.847	13.844	13.912	13.844	13.838
2/25/17 0:00	13.830	13.842	13.846	13.852	13.906	13.848	13.845
2/25/17 2:00	13.833	13.855	13.855	13.855	13.913	13.851	13.847
2/25/17 4:00	13.819	13.829	13.840	13.837	13.927	13.838	13.831
2/25/17 6:00	13.816	13.828	13.832	13.838	13.899	13.834	13.831
2/25/17 8:00	13.823	13.844	13.843	13.843	13.901	13.839	13.836
2/25/17 10:00	13.808	13.821	13.832	13.830	13.914	13.830	13.823
2/25/17 12:00	13.776	13.791	13.796	13.801	13.895	13.797	13.793
2/25/17 14:00	13.732	13.760	13.758	13.758	13.865	13.755	13.751
2/25/17 16:00	13.711	13.728	13.736	13.734	13.829	13.734	13.727
2/25/17 18:00	13.706	13.722	13.724	13.729	13.799	13.726	13.723
2/25/17 20:00	13.707	13.731	13.731	13.731	13.793	13.727	13.723
2/25/17 22:00	13.704	13.715	13.725	13.722	13.804	13.723	13.717
2/26/17 0:00	13.720	13.737	13.739	13.745	13.785	13.740	13.738
2/26/17 2:00	13.700	13.724	13.723	13.722	13.806	13.719	13.716
2/26/17 4:00	13.701	13.716	13.724	13.722	13.795	13.722	13.716

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/26/17 6:00	13.707	13.719	13.723	13.728	13.784	13.724	13.721
2/26/17 8:00	13.724	13.746	13.746	13.746	13.792	13.742	13.739
2/26/17 10:00	13.728	13.744	13.753	13.749	13.818	13.751	13.744
2/26/17 12:00	13.718	13.736	13.740	13.745	13.816	13.740	13.738
2/26/17 14:00	13.696	13.724	13.722	13.722	13.808	13.719	13.714
2/26/17 16:00	13.700	13.711	13.720	13.717	13.792	13.718	13.713
2/26/17 18:00	13.716	13.732	13.733	13.740	13.783	13.736	13.732
2/26/17 20:00	13.728	13.752	13.751	13.750	13.802	13.748	13.744
2/26/17 22:00	13.733	13.746	13.755	13.752	13.825	13.752	13.746
2/27/17 0:00	13.723	13.736	13.740	13.744	13.816	13.740	13.738
2/27/17 2:00	13.719	13.743	13.741	13.741	13.806	13.737	13.734
2/27/17 4:00	13.706	13.718	13.727	13.724	13.813	13.724	13.718
2/27/17 6:00	13.708	13.719	13.723	13.728	13.787	13.725	13.721
2/27/17 8:00	13.706	13.729	13.729	13.729	13.793	13.724	13.721
2/27/17 10:00	13.689	13.704	13.712	13.710	13.800	13.709	13.704
2/27/17 12:00	13.648	13.667	13.669	13.674	13.772	13.670	13.667
2/27/17 14:00	13.608	13.633	13.632	13.631	13.737	13.628	13.624
2/27/17 16:00	13.591	13.602	13.611	13.608	13.702	13.609	13.602
2/27/17 18:00	13.584	13.597	13.600	13.607	13.674	13.601	13.599
2/27/17 20:00	13.576	13.600	13.598	13.598	13.668	13.595	13.592
2/27/17 22:00	13.561	13.575	13.585	13.581	13.674	13.583	13.576
2/28/17 0:00	13.556	13.572	13.573	13.580	13.647	13.576	13.572
2/28/17 2:00	13.560	13.583	13.582	13.583	13.641	13.579	13.575
2/28/17 4:00	13.558	13.573	13.581	13.579	13.655	13.579	13.572
2/28/17 6:00	13.572	13.586	13.589	13.594	13.643	13.590	13.588
2/28/17 8:00	13.607	13.631	13.630	13.629	13.660	13.626	13.623
2/28/17 10:00	13.616	13.629	13.639	13.635	13.702	13.636	13.630
2/28/17 12:00	13.597	13.615	13.618	13.623	13.698	13.619	13.617
2/28/17 14:00	13.582	13.608	13.606	13.606	13.687	13.603	13.600
2/28/17 16:00	13.592	13.606	13.614	13.611	13.678	13.613	13.606
2/28/17 18:00	13.620	13.634	13.636	13.642	13.677	13.639	13.635
2/28/17 20:00	13.658	13.682	13.680	13.679	13.705	13.677	13.673
2/28/17 22:00	13.682	13.693	13.702	13.699	13.752	13.701	13.694
3/1/17 0:00	13.700	13.717	13.719	13.724	13.765	13.722	13.718
3/1/17 2:00	13.723	13.746	13.746	13.745	13.787	13.742	13.738
3/1/17 4:00	13.736	13.748	13.757	13.753	13.819	13.756	13.749
3/1/17 6:00	13.764	13.778	13.778	13.785	13.818	13.781	13.779
3/1/17 8:00	13.790	13.813	13.812	13.812	13.851	13.808	13.805
3/1/17 10:00	13.827	13.840	13.848	13.845	13.885	13.846	13.840
3/1/17 12:00	13.844	13.859	13.862	13.867	13.908	13.865	13.862
3/1/17 14:00	13.836	13.862	13.862	13.860	13.933	13.858	13.854
3/1/17 16:00	13.844	13.854	13.862	13.860	13.932	13.863	13.855
3/1/17 18:00	13.850	13.864	13.865	13.872	13.927	13.869	13.866
3/1/17 20:00	13.857	13.882	13.881	13.881	13.936	13.878	13.873
3/1/17 22:00	13.871	13.885	13.893	13.890	13.952	13.891	13.884
3/2/17 0:00	13.876	13.891	13.892	13.899	13.956	13.896	13.892

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/2/17 2:00	13.882	13.906	13.905	13.904	13.962	13.902	13.897
3/2/17 4:00	13.884	13.895	13.905	13.901	13.975	13.902	13.896
3/2/17 6:00	13.897	13.911	13.913	13.919	13.967	13.916	13.913
3/2/17 8:00	13.922	13.946	13.944	13.942	13.981	13.940	13.937
3/2/17 10:00	13.945	13.960	13.969	13.966	14.017	13.967	13.961
3/2/17 12:00	13.952	13.969	13.970	13.977	14.030	13.974	13.971
3/2/17 14:00	13.943	13.968	13.965	13.966	14.042	13.963	13.958
3/2/17 16:00	13.941	13.953	13.961	13.959	14.038	13.959	13.953
3/2/17 18:00	13.940	13.954	13.955	13.963	14.021	13.959	13.956
3/2/17 20:00	13.949	13.975	13.973	13.974	14.027	13.970	13.966
3/2/17 22:00	13.959	13.972	13.980	13.979	14.044	13.979	13.972
3/3/17 0:00	13.966	13.982	13.982	13.990	14.044	13.986	13.983
3/3/17 2:00	13.965	13.991	13.990	13.990	14.052	13.986	13.982
3/3/17 4:00	13.946	13.961	13.969	13.967	14.059	13.967	13.960
3/3/17 6:00	13.935	13.950	13.952	13.958	14.031	13.955	13.952
3/3/17 8:00	13.922	13.947	13.945	13.945	14.020	13.942	13.938
3/3/17 10:00	13.898	13.914	13.923	13.920	14.020	13.921	13.914
3/3/17 12:00	13.856	13.873	13.874	13.881	13.984	13.877	13.874
3/3/17 14:00	13.819	13.843	13.841	13.842	13.942	13.837	13.833
3/3/17 16:00	13.796	13.805	13.813	13.811	13.914	13.812	13.806
3/3/17 18:00	13.788	13.801	13.803	13.810	13.873	13.807	13.804
3/3/17 20:00	13.783	13.811	13.809	13.810	13.874	13.806	13.802
3/3/17 22:00	13.789	13.802	13.811	13.808	13.880	13.809	13.804
3/4/17 0:00	13.789	13.805	13.807	13.814	13.870	13.810	13.807
3/4/17 2:00	13.790	13.817	13.815	13.815	13.876	13.812	13.809
3/4/17 4:00	13.779	13.793	13.802	13.799	13.886	13.800	13.793
3/4/17 6:00	13.776	13.792	13.793	13.800	13.865	13.796	13.793
3/4/17 8:00	13.777	13.802	13.800	13.801	13.862	13.798	13.794
3/4/17 10:00	13.762	13.778	13.786	13.783	13.875	13.784	13.777
3/4/17 12:00	13.742	13.756	13.758	13.764	13.847	13.761	13.758
3/4/17 14:00	13.698	13.720	13.717	13.718	13.825	13.715	13.710
3/4/17 16:00	13.687	13.689	13.699	13.696	13.790	13.697	13.690
3/4/17 18:00	13.679	13.687	13.689	13.696	13.759	13.693	13.689
3/4/17 20:00	13.676	13.703	13.701	13.701	13.760	13.698	13.694
3/4/17 22:00	13.682	13.695	13.703	13.700	13.774	13.702	13.696
3/5/17 0:00	13.672	13.688	13.689	13.696	13.763	13.693	13.689
3/5/17 2:00	13.669	13.694	13.693	13.693	13.760	13.690	13.686
3/5/17 4:00	13.648	13.661	13.669	13.667	13.764	13.668	13.662
3/5/17 6:00	13.650	13.666	13.668	13.675	13.732	13.670	13.668
3/5/17 8:00	13.655	13.680	13.679	13.679	13.737	13.676	13.672
3/5/17 10:00	13.650	13.664	13.674	13.671	13.749	13.672	13.666
3/5/17 12:00	13.635	13.648	13.649	13.656	13.736	13.653	13.650
3/5/17 14:00	13.593	13.612	13.611	13.612	13.716	13.609	13.605
3/5/17 16:00	13.569	13.576	13.583	13.581	13.684	13.583	13.576
3/5/17 18:00	13.554	13.564	13.567	13.573	13.644	13.570	13.567
3/5/17 20:00	13.545	13.572	13.570	13.570	13.638	13.567	13.563

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/5/17 22:00	13.535	13.549	13.558	13.557	13.642	13.556	13.549
3/6/17 0:00	13.517	13.535	13.537	13.543	13.617	13.540	13.537
3/6/17 2:00	13.511	13.537	13.536	13.535	13.606	13.533	13.529
3/6/17 4:00	13.484	13.499	13.507	13.506	13.607	13.506	13.499
3/6/17 6:00	13.469	13.485	13.488	13.494	13.570	13.490	13.487
3/6/17 8:00	13.465	13.491	13.490	13.489	13.556	13.487	13.483
3/6/17 10:00	13.464	13.475	13.484	13.481	13.559	13.482	13.476
3/6/17 12:00	13.448	13.458	13.460	13.467	13.546	13.464	13.461
3/6/17 14:00	13.450	13.470	13.468	13.468	13.529	13.466	13.463
3/6/17 16:00	13.513	13.523	13.531	13.530	13.543	13.529	13.524
3/6/17 18:00	13.565	13.577	13.579	13.588	13.592	13.585	13.582
3/6/17 20:00	13.637	13.661	13.659	13.660	13.646	13.658	13.654
3/6/17 22:00	13.690	13.703	13.711	13.711	13.733	13.712	13.705
3/7/17 0:00	13.711	13.724	13.725	13.733	13.771	13.730	13.727
3/7/17 2:00	13.730	13.754	13.751	13.753	13.796	13.749	13.746
3/7/17 4:00	13.733	13.744	13.752	13.751	13.824	13.752	13.746
3/7/17 6:00	13.759	13.772	13.773	13.782	13.812	13.778	13.776
3/7/17 8:00	13.776	13.801	13.799	13.801	13.844	13.797	13.793
3/7/17 10:00	13.780	13.796	13.803	13.800	13.870	13.803	13.795
3/7/17 12:00	13.771	13.792	13.793	13.801	13.867	13.798	13.795
3/7/17 14:00	13.769	13.791	13.788	13.790	13.863	13.788	13.784
3/7/17 16:00	13.769	13.781	13.788	13.789	13.860	13.790	13.782
3/7/17 18:00	13.786	13.799	13.799	13.807	13.850	13.806	13.802
3/7/17 20:00	13.804	13.829	13.826	13.827	13.868	13.825	13.820
3/7/17 22:00	13.820	13.831	13.839	13.838	13.901	13.839	13.832
3/8/17 0:00	13.830	13.844	13.844	13.853	13.900	13.850	13.846
3/8/17 2:00	13.839	13.862	13.861	13.861	13.913	13.858	13.854
3/8/17 4:00	13.827	13.838	13.847	13.845	13.933	13.847	13.839
3/8/17 6:00	13.822	13.836	13.836	13.845	13.907	13.841	13.838
3/8/17 8:00	13.828	13.852	13.849	13.850	13.907	13.847	13.843
3/8/17 10:00	13.821	13.835	13.843	13.841	13.921	13.843	13.836
3/8/17 12:00	13.799	13.812	13.812	13.821	13.907	13.818	13.813
3/8/17 14:00	13.780	13.797	13.793	13.792	13.883	13.785	13.786
3/8/17 16:00	13.778	13.778	13.786	13.783	13.865	13.779	13.778
3/8/17 18:00	13.765	13.770	13.770	13.779	13.849	13.768	13.774
3/8/17 20:00	13.764	13.790	13.785	13.785	13.841	13.779	13.780
3/8/17 22:00	13.771	13.783	13.790	13.787	13.861	13.785	13.783
3/9/17 0:00	13.771	13.799	13.805	13.806	13.853	13.793	13.798
3/9/17 2:00	13.762	13.790	13.796	13.796	13.869	13.784	13.789
3/9/17 4:00	13.748	13.778	13.783	13.784	13.864	13.771	13.776
3/9/17 6:00	13.753	13.780	13.787	13.787	13.848	13.774	13.779
3/9/17 8:00	13.749	13.779	13.786	13.786	13.854	13.773	13.778
3/9/17 10:00	13.765	13.791	13.798	13.797	13.851	13.786	13.791
3/9/17 12:00	13.772	13.800	13.805	13.806	13.868	13.793	13.798
3/9/17 14:00	13.766	13.793	13.799	13.800	13.871	13.786	13.791
3/9/17 16:00	13.775	13.797	13.804	13.804	13.864	13.791	13.796

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/9/17 18:00	13.810	13.831	13.836	13.836	13.871	13.823	13.829
3/9/17 20:00	13.867	13.896	13.902	13.902	13.902	13.889	13.895
3/9/17 22:00	13.931	13.960	13.965	13.965	13.970	13.952	13.959
3/10/17 0:00	13.958	13.987	13.994	13.994	14.032	13.981	13.986
3/10/17 2:00	13.977	14.007	14.013	14.013	14.057	14.000	14.005
3/10/17 4:00	13.986	14.015	14.022	14.021	14.080	14.008	14.013
3/10/17 6:00	13.988	14.018	14.024	14.023	14.085	14.010	14.016
3/10/17 8:00	14.005	14.033	14.039	14.039	14.090	14.027	14.032
3/10/17 10:00	14.006	14.037	14.045	14.045	14.106	14.031	14.035
3/10/17 12:00	13.975	14.006	14.013	14.013	14.108	14.000	14.005
3/10/17 14:00	13.946	13.953	13.963	13.965	14.080	13.968	13.959
3/10/17 16:00	13.902	13.912	13.911	13.923	14.000	13.922	13.916
3/10/17 18:00	13.883	13.908	13.902	13.903	13.994	13.906	13.898
3/10/17 20:00	13.874	13.879	13.890	13.889	13.969	13.895	13.884
3/10/17 22:00	13.890	13.899	13.899	13.908	13.988	13.910	13.904
3/11/17 0:00	13.893	13.916	13.913	13.911	14.002	13.913	13.906
3/11/17 2:00	13.882	13.890	13.900	13.896	13.973	13.904	13.894
3/11/17 4:00	13.886	13.896	13.896	13.907	13.977	13.907	13.901
3/11/17 6:00	13.891	13.914	13.910	13.910	13.994	13.911	13.905
3/11/17 8:00	13.905	13.912	13.923	13.920	13.991	13.926	13.916
3/11/17 10:00	13.938	13.948	13.948	13.957	14.030	13.957	13.952
3/11/17 12:00	13.957	13.981	13.977	13.977	14.058	13.978	13.972
3/11/17 14:00	13.960	13.966	13.977	13.974	14.049	13.982	13.971
3/11/17 16:00	13.940	13.950	13.951	13.961	14.031	13.962	13.956
3/11/17 18:00	13.942	13.966	13.962	13.961	14.047	13.964	13.957
3/11/17 20:00	13.946	13.950	13.963	13.961	14.032	13.967	13.957
3/11/17 22:00	13.952	13.961	13.962	13.972	14.041	13.973	13.967
3/12/17 0:00	13.941	13.964	13.961	13.961	14.042	13.962	13.956
3/12/17 2:00	13.925	13.930	13.942	13.940	14.009	13.946	13.936
3/12/17 4:00	13.902	13.913	13.913	13.923	13.991	13.923	13.917
3/12/17 6:00	13.874	13.897	13.893	13.893	13.972	13.894	13.888
3/12/17 8:00	13.859	13.864	13.875	13.874	13.943	13.879	13.870
3/12/17 10:00	13.816	13.827	13.827	13.838	13.905	13.838	13.832
3/12/17 12:00	13.785	13.810	13.805	13.806	13.889	13.807	13.800
3/12/17 14:00	13.742	13.750	13.760	13.760	13.828	13.764	13.755
3/12/17 16:00	13.713	13.726	13.724	13.736	13.801	13.735	13.730
3/12/17 18:00	13.709	13.732	13.727	13.728	13.808	13.729	13.723
3/12/17 20:00	13.749	13.755	13.767	13.763	13.833	13.771	13.761
3/12/17 22:00	13.776	13.786	13.787	13.796	13.865	13.796	13.791
3/13/17 0:00	13.810	13.833	13.829	13.829	13.907	13.830	13.824
3/13/17 2:00	13.840	13.844	13.857	13.852	13.923	13.859	13.851
3/13/17 4:00	13.876	13.885	13.885	13.895	13.961	13.894	13.890
3/13/17 6:00	13.900	13.922	13.919	13.918	13.999	13.919	13.914
3/13/17 8:00	13.911	13.914	13.927	13.924	13.991	13.929	13.920
3/13/17 10:00	13.923	13.931	13.934	13.942	14.007	13.942	13.938
3/13/17 12:00	13.916	13.939	13.936	13.937	14.015	13.937	13.931

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/13/17 14:00	13.895	13.903	13.914	13.913	13.979	13.917	13.909
3/13/17 16:00	13.877	13.887	13.888	13.898	13.964	13.897	13.892
3/13/17 18:00	13.873	13.897	13.894	13.894	13.971	13.894	13.889
3/13/17 20:00	13.874	13.881	13.892	13.889	13.959	13.894	13.885
3/13/17 22:00	13.882	13.891	13.892	13.900	13.969	13.901	13.896
3/14/17 0:00	13.875	13.899	13.897	13.897	13.971	13.896	13.891
3/14/17 2:00	13.874	13.882	13.893	13.890	13.958	13.894	13.886
3/14/17 4:00	13.865	13.875	13.876	13.886	13.949	13.884	13.880
3/14/17 6:00	13.870	13.892	13.889	13.887	13.967	13.889	13.883
3/14/17 8:00	13.873	13.881	13.892	13.889	13.955	13.893	13.885
3/14/17 10:00	13.890	13.900	13.902	13.909	13.978	13.910	13.906
3/14/17 12:00	13.888	13.914	13.910	13.912	13.986	13.911	13.906
3/14/17 14:00	13.893	13.901	13.913	13.909	13.979	13.915	13.907
3/14/17 16:00	13.882	13.892	13.895	13.904	13.970	13.903	13.899
3/14/17 18:00	13.891	13.916	13.912	13.913	13.988	13.912	13.907
3/14/17 20:00	13.901	13.908	13.919	13.917	13.985	13.921	13.913
3/14/17 22:00	13.915	13.924	13.926	13.935	14.001	13.934	13.930
3/15/17 0:00	13.918	13.942	13.938	13.939	14.016	13.938	13.933
3/15/17 2:00	13.917	13.925	13.937	13.937	14.001	13.938	13.931
3/15/17 4:00	13.909	13.920	13.921	13.930	13.993	13.929	13.925
3/15/17 6:00	13.903	13.926	13.925	13.923	14.002	13.923	13.919
3/15/17 8:00	13.893	13.899	13.911	13.909	13.974	13.911	13.904
3/15/17 10:00	13.879	13.889	13.893	13.901	13.970	13.899	13.895
3/15/17 12:00	13.852	13.877	13.873	13.874	13.949	13.873	13.868
3/15/17 14:00	13.834	13.843	13.853	13.851	13.918	13.855	13.847
3/15/17 16:00	13.801	13.811	13.813	13.822	13.885	13.821	13.817
3/15/17 18:00	13.778	13.801	13.798	13.798	13.876	13.797	13.792
3/15/17 20:00	13.781	13.788	13.799	13.798	13.862	13.801	13.793
3/15/17 22:00	13.779	13.791	13.792	13.801	13.864	13.800	13.796
3/16/17 0:00	13.782	13.807	13.804	13.804	13.881	13.803	13.799
3/16/17 2:00	13.766	13.773	13.786	13.783	13.849	13.786	13.780
3/16/17 4:00	13.749	13.758	13.761	13.769	13.836	13.768	13.764
3/16/17 6:00	13.733	13.756	13.754	13.755	13.830	13.753	13.749
3/16/17 8:00	13.724	13.731	13.743	13.741	13.808	13.744	13.737
3/16/17 10:00	13.718	13.729	13.731	13.741	13.803	13.738	13.735
3/16/17 12:00	13.708	13.729	13.726	13.727	13.804	13.725	13.721
3/16/17 14:00	13.686	13.685	13.697	13.695	13.760	13.699	13.692
3/16/17 16:00	13.660	13.659	13.661	13.671	13.732	13.669	13.666
3/16/17 18:00	13.648	13.665	13.660	13.661	13.737	13.660	13.656
3/16/17 20:00	13.648	13.651	13.663	13.662	13.724	13.665	13.658
3/16/17 22:00	13.651	13.661	13.662	13.672	13.736	13.669	13.667
3/17/17 0:00	13.676	13.700	13.697	13.698	13.772	13.696	13.693
3/17/17 2:00	13.703	13.709	13.721	13.720	13.785	13.723	13.716
3/17/17 4:00	13.738	13.747	13.750	13.759	13.822	13.757	13.755
3/17/17 6:00	13.754	13.779	13.776	13.776	13.848	13.775	13.771
3/17/17 8:00	13.800	13.807	13.820	13.816	13.882	13.821	13.814

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/17/17 10:00	13.826	13.836	13.837	13.847	13.908	13.845	13.842
3/17/17 12:00	13.845	13.865	13.862	13.863	13.938	13.862	13.858
3/17/17 14:00	13.843	13.845	13.857	13.856	13.918	13.859	13.852
3/17/17 16:00	13.840	13.839	13.841	13.851	13.915	13.848	13.846
3/17/17 18:00	13.845	13.858	13.855	13.856	13.929	13.854	13.851
3/17/17 20:00	13.852	13.858	13.870	13.868	13.934	13.871	13.865
3/17/17 22:00	13.874	13.886	13.887	13.896	13.959	13.895	13.892
3/18/17 0:00	13.886	13.912	13.909	13.910	13.982	13.908	13.905
3/18/17 2:00	13.904	13.912	13.924	13.923	13.986	13.924	13.919
3/18/17 4:00	13.903	13.915	13.918	13.926	13.987	13.923	13.922
3/18/17 6:00	13.908	13.934	13.931	13.932	14.007	13.930	13.927
3/18/17 8:00	13.916	13.926	13.937	13.937	13.998	13.937	13.931
3/18/17 10:00	13.921	13.933	13.937	13.946	14.009	13.942	13.941
3/18/17 12:00	13.914	13.939	13.937	13.938	14.010	13.935	13.932
3/18/17 14:00	13.883	13.888	13.900	13.900	13.963	13.901	13.895
3/18/17 16:00	13.851	13.853	13.856	13.865	13.926	13.861	13.859
3/18/17 18:00	13.825	13.839	13.836	13.840	13.908	13.835	13.832
3/18/17 20:00	13.810	13.817	13.829	13.827	13.891	13.830	13.824
3/18/17 22:00	13.810	13.821	13.825	13.834	13.894	13.831	13.829
3/19/17 0:00	13.797	13.823	13.821	13.822	13.895	13.819	13.816
3/19/17 2:00	13.782	13.792	13.803	13.803	13.863	13.804	13.800
3/19/17 4:00	13.757	13.769	13.773	13.782	13.844	13.778	13.776
3/19/17 6:00	13.737	13.763	13.761	13.762	13.834	13.759	13.756
3/19/17 8:00	13.735	13.743	13.756	13.754	13.814	13.756	13.751
3/19/17 10:00	13.727	13.738	13.743	13.751	13.811	13.747	13.746
3/19/17 12:00	13.728	13.747	13.746	13.747	13.817	13.743	13.741
3/19/17 14:00	13.721	13.718	13.729	13.729	13.790	13.730	13.725
3/19/17 16:00	13.698	13.693	13.696	13.705	13.765	13.702	13.700
3/19/17 18:00	13.692	13.695	13.692	13.694	13.767	13.690	13.688
3/19/17 20:00	13.683	13.687	13.699	13.698	13.758	13.699	13.695
3/19/17 22:00	13.700	13.710	13.714	13.722	13.786	13.719	13.718
3/20/17 0:00	13.704	13.730	13.728	13.729	13.800	13.726	13.724
3/20/17 2:00	13.704	13.713	13.726	13.725	13.785	13.726	13.721
3/20/17 4:00	13.714	13.725	13.729	13.736	13.799	13.734	13.733
3/20/17 6:00	13.725	13.751	13.750	13.749	13.822	13.747	13.745
3/20/17 8:00	13.746	13.755	13.769	13.767	13.831	13.767	13.763
3/20/17 10:00	13.775	13.787	13.792	13.802	13.861	13.796	13.796
3/20/17 12:00	13.783	13.805	13.804	13.806	13.874	13.801	13.800
3/20/17 14:00	13.776	13.778	13.792	13.791	13.852	13.791	13.787
3/20/17 16:00	13.768	13.773	13.776	13.785	13.845	13.781	13.781
3/20/17 18:00	13.771	13.787	13.785	13.787	13.858	13.783	13.782
3/20/17 20:00	13.778	13.786	13.799	13.798	13.858	13.797	13.794
3/20/17 22:00	13.800	13.812	13.816	13.825	13.886	13.820	13.820
3/21/17 0:00	13.817	13.844	13.842	13.844	13.913	13.839	13.837
3/21/17 2:00	13.816	13.827	13.839	13.840	13.900	13.837	13.834
3/21/17 4:00	13.795	13.809	13.813	13.821	13.882	13.816	13.816

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/21/17 6:00	13.835	13.861	13.860	13.860	13.930	13.856	13.856
3/21/17 8:00	13.866	13.875	13.888	13.886	13.949	13.886	13.883
3/21/17 10:00	13.881	13.896	13.901	13.909	13.967	13.903	13.903
3/21/17 12:00	13.887	13.912	13.911	13.914	13.983	13.908	13.907
3/21/17 14:00	13.881	13.891	13.904	13.903	13.963	13.902	13.899
3/21/17 16:00	13.864	13.875	13.879	13.888	13.949	13.882	13.883
3/21/17 18:00	13.860	13.884	13.884	13.885	13.955	13.880	13.879
3/21/17 20:00	13.875	13.885	13.899	13.898	13.958	13.896	13.895
3/21/17 22:00	13.892	13.907	13.912	13.920	13.981	13.914	13.915
3/22/17 0:00	13.911	13.937	13.937	13.937	14.008	13.932	13.932
3/22/17 2:00	13.904	13.917	13.929	13.929	13.990	13.926	13.924
3/22/17 4:00	13.887	13.902	13.906	13.916	13.975	13.909	13.909
3/22/17 6:00	13.896	13.923	13.922	13.923	13.994	13.917	13.918
3/22/17 8:00	13.891	13.902	13.915	13.914	13.975	13.912	13.911
3/22/17 10:00	13.884	13.898	13.905	13.912	13.974	13.906	13.906
3/22/17 12:00	13.865	13.892	13.891	13.892	13.962	13.888	13.887
3/22/17 14:00	13.833	13.843	13.856	13.855	13.913	13.853	13.851
3/22/17 16:00	13.804	13.816	13.822	13.829	13.890	13.823	13.823
3/22/17 18:00	13.780	13.805	13.805	13.806	13.875	13.801	13.800
3/22/17 20:00	13.771	13.784	13.796	13.795	13.856	13.793	13.791
3/22/17 22:00	13.779	13.792	13.799	13.805	13.865	13.800	13.800
3/23/17 0:00	13.762	13.787	13.788	13.788	13.859	13.782	13.782
3/23/17 2:00	13.732	13.744	13.757	13.755	13.816	13.753	13.752
3/23/17 4:00	13.705	13.719	13.725	13.733	13.795	13.726	13.727
3/23/17 6:00	13.675	13.701	13.701	13.702	13.772	13.697	13.696
3/23/17 8:00	13.658	13.671	13.684	13.684	13.742	13.681	13.679
3/23/17 10:00	13.644	13.658	13.664	13.671	13.733	13.665	13.666
3/23/17 12:00	13.621	13.646	13.646	13.647	13.715	13.641	13.642
3/23/17 14:00	13.590	13.598	13.611	13.610	13.671	13.607	13.606
3/23/17 16:00	13.566	13.568	13.572	13.581	13.640	13.574	13.574
3/23/17 18:00	13.539	13.551	13.552	13.552	13.625	13.547	13.547
3/23/17 20:00	13.543	13.546	13.560	13.559	13.619	13.557	13.555
3/23/17 22:00	13.588	13.599	13.605	13.613	13.671	13.607	13.608
3/24/17 0:00	13.597	13.621	13.619	13.621	13.692	13.617	13.616
3/24/17 2:00	13.607	13.617	13.630	13.630	13.687	13.627	13.625
3/24/17 4:00	13.586	13.598	13.602	13.612	13.672	13.606	13.606
3/24/17 6:00	13.587	13.613	13.612	13.614	13.683	13.609	13.609
3/24/17 8:00	13.611	13.619	13.634	13.633	13.696	13.631	13.630
3/24/17 10:00	13.644	13.657	13.663	13.673	13.731	13.665	13.667
3/24/17 12:00	13.671	13.697	13.696	13.698	13.769	13.692	13.692
3/24/17 14:00	13.694	13.704	13.718	13.718	13.776	13.715	13.714
3/24/17 16:00	13.701	13.715	13.721	13.729	13.785	13.723	13.724
3/24/17 18:00	13.729	13.753	13.753	13.754	13.825	13.749	13.749
3/24/17 20:00	13.743	13.752	13.766	13.766	13.824	13.763	13.761
3/24/17 22:00	13.752	13.764	13.769	13.777	13.838	13.771	13.772
3/25/17 0:00	13.746	13.773	13.772	13.774	13.843	13.768	13.768

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/25/17 2:00	13.751	13.761	13.774	13.774	13.835	13.772	13.770
3/25/17 4:00	13.746	13.760	13.766	13.774	13.832	13.767	13.768
3/25/17 6:00	13.747	13.772	13.772	13.773	13.845	13.767	13.768
3/25/17 8:00	13.751	13.762	13.776	13.775	13.835	13.772	13.771
3/25/17 10:00	13.758	13.771	13.776	13.784	13.843	13.777	13.779
3/25/17 12:00	13.753	13.780	13.779	13.781	13.852	13.775	13.774
3/25/17 14:00	13.744	13.755	13.768	13.769	13.826	13.765	13.763
3/25/17 16:00	13.719	13.733	13.738	13.747	13.803	13.740	13.740
3/25/17 18:00	13.708	13.735	13.735	13.736	13.806	13.730	13.730
3/25/17 20:00	13.715	13.726	13.741	13.738	13.797	13.736	13.735
3/25/17 22:00	13.718	13.732	13.738	13.745	13.806	13.739	13.739
3/26/17 0:00	13.700	13.726	13.727	13.727	13.796	13.722	13.721
3/26/17 2:00	13.706	13.716	13.730	13.730	13.787	13.727	13.725
3/26/17 4:00	13.698	13.713	13.718	13.726	13.785	13.719	13.720
3/26/17 6:00	13.688	13.713	13.713	13.714	13.782	13.709	13.708
3/26/17 8:00	13.699	13.709	13.723	13.722	13.783	13.720	13.718
3/26/17 10:00	13.701	13.714	13.720	13.728	13.787	13.722	13.722
3/26/17 12:00	13.708	13.735	13.734	13.735	13.807	13.730	13.730
3/26/17 14:00	13.698	13.710	13.722	13.723	13.781	13.720	13.717
3/26/17 16:00	13.680	13.691	13.697	13.706	13.762	13.699	13.700
3/26/17 18:00	13.684	13.708	13.708	13.709	13.780	13.704	13.704
3/26/17 20:00	13.713	13.723	13.736	13.737	13.794	13.734	13.732
3/26/17 22:00	13.720	13.731	13.736	13.745	13.806	13.739	13.740
3/27/17 0:00	13.704	13.729	13.728	13.730	13.799	13.725	13.724
3/27/17 2:00	13.716	13.725	13.737	13.738	13.795	13.737	13.734
3/27/17 4:00	13.707	13.719	13.723	13.733	13.792	13.728	13.728
3/27/17 6:00	13.720	13.746	13.744	13.746	13.814	13.741	13.740
3/27/17 8:00	13.724	13.733	13.746	13.747	13.806	13.745	13.742
3/27/17 10:00	13.738	13.748	13.753	13.763	13.820	13.757	13.756
3/27/17 12:00	13.739	13.763	13.761	13.763	13.835	13.759	13.758
3/27/17 14:00	13.731	13.735	13.748	13.748	13.807	13.747	13.744
3/27/17 16:00	13.709	13.713	13.718	13.727	13.785	13.723	13.722
3/27/17 18:00	13.707	13.725	13.723	13.724	13.796	13.721	13.719
3/27/17 20:00	13.711	13.719	13.731	13.731	13.789	13.732	13.728
3/27/17 22:00	13.731	13.741	13.746	13.755	13.815	13.750	13.750
3/28/17 0:00	13.741	13.766	13.765	13.766	13.836	13.762	13.760
3/28/17 2:00	13.738	13.746	13.759	13.759	13.816	13.758	13.755
3/28/17 4:00	13.733	13.742	13.747	13.755	13.815	13.752	13.751
3/28/17 6:00	13.744	13.770	13.768	13.771	13.838	13.766	13.764
3/28/17 8:00	13.757	13.765	13.779	13.779	13.839	13.778	13.774
3/28/17 10:00	13.762	13.774	13.779	13.788	13.846	13.783	13.783
3/28/17 12:00	13.739	13.765	13.763	13.766	13.834	13.762	13.760
3/28/17 14:00	13.734	13.742	13.756	13.756	13.815	13.755	13.751
3/28/17 16:00	13.735	13.747	13.751	13.760	13.817	13.755	13.754
3/28/17 18:00	13.747	13.771	13.769	13.771	13.843	13.768	13.766
3/28/17 20:00	13.752	13.737	13.749	13.754	13.805	13.771	13.752

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/28/17 22:00	13.753	13.737	13.729	13.753	13.809	13.770	13.751
3/29/17 0:00	13.751	13.766	13.755	13.759	13.833	13.772	13.755
3/29/17 2:00	13.738	13.724	13.733	13.733	13.793	13.756	13.733
3/29/17 4:00	13.719	13.708	13.699	13.719	13.779	13.736	13.717
3/29/17 6:00	13.711	13.723	13.707	13.711	13.788	13.732	13.707
3/29/17 8:00	13.712	13.686	13.695	13.693	13.758	13.730	13.692
3/29/17 10:00	13.705	13.686	13.674	13.698	13.756	13.722	13.695
3/29/17 12:00	13.690	13.695	13.677	13.679	13.759	13.708	13.676
3/29/17 14:00	13.676	13.609	13.623	13.614	13.679	13.692	13.616
3/29/17 16:00	13.659	13.574	13.558	13.586	13.641	13.672	13.587
3/29/17 18:00	13.659	13.643	13.621	13.615	13.709	13.675	13.613
3/29/17 20:00	13.665	13.597	13.609	13.593	13.665	13.678	13.595
3/29/17 22:00	13.671	13.611	13.592	13.614	13.677	13.684	13.614
3/30/17 0:00	13.655	13.650	13.628	13.623	13.716	13.672	13.620
3/30/17 2:00	13.647	13.600	13.608	13.595	13.668	13.663	13.596
3/30/17 4:00	13.639	13.604	13.587	13.605	13.674	13.654	13.604
3/30/17 6:00	13.632	13.636	13.618	13.612	13.702	13.650	13.609
3/30/17 8:00	13.647	13.612	13.619	13.606	13.684	13.662	13.608
3/30/17 10:00	13.652	13.625	13.610	13.626	13.694	13.666	13.626
3/30/17 12:00	13.649	13.655	13.638	13.634	13.720	13.667	13.630
3/30/17 14:00	13.640	13.611	13.619	13.605	13.680	13.657	13.607
3/30/17 16:00	13.628	13.606	13.591	13.608	13.675	13.643	13.605
3/30/17 18:00	13.625	13.634	13.618	13.614	13.699	13.643	13.611
3/30/17 20:00	13.641	13.616	13.625	13.612	13.685	13.659	13.613
3/30/17 22:00	13.668	13.649	13.638	13.653	13.718	13.683	13.651
3/31/17 0:00	13.678	13.689	13.675	13.670	13.757	13.697	13.667
3/31/17 2:00	13.678	13.658	13.666	13.654	13.725	13.696	13.655
3/31/17 4:00	13.684	13.670	13.659	13.673	13.736	13.701	13.671
3/31/17 6:00	13.697	13.709	13.695	13.690	13.774	13.715	13.687
3/31/17 8:00	13.715	13.694	13.703	13.691	13.762	13.732	13.692
3/31/17 10:00	13.745	13.732	13.723	13.736	13.803	13.763	13.734
3/31/17 12:00	13.736	13.749	13.736	13.731	13.816	13.755	13.728
3/31/17 14:00	13.739	13.718	13.728	13.717	13.789	13.756	13.717
3/31/17 16:00	13.743	13.729	13.720	13.733	13.800	13.759	13.731
3/31/17 18:00	13.742	13.756	13.743	13.739	13.820	13.762	13.735
3/31/17 20:00	13.752	13.734	13.745	13.733	13.804	13.771	13.733
3/31/17 22:00	13.783	13.770	13.762	13.772	13.839	13.799	13.772
4/1/17 0:00	13.794	13.809	13.796	13.792	13.876	13.814	13.788
4/1/17 2:00	13.795	13.780	13.788	13.778	13.848	13.814	13.777
4/1/17 4:00	13.810	13.800	13.791	13.803	13.867	13.827	13.801
4/1/17 6:00	13.795	13.808	13.793	13.790	13.875	13.814	13.787
4/1/17 8:00	13.833	13.795	13.800	13.790	13.863	13.849	13.792
4/1/17 10:00	13.819	13.726	13.701	13.727	13.793	13.828	13.728
4/1/17 12:00	13.830	13.812	13.785	13.775	13.874	13.844	13.773
4/1/17 14:00	13.806	13.717	13.725	13.706	13.786	13.818	13.708
4/1/17 16:00	13.786	13.536	13.523	13.553	13.604	13.776	13.557

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/1/17 18:00	13.800	13.722	13.692	13.671	13.780	13.804	13.671
4/1/17 20:00	13.795	13.652	13.665	13.635	13.719	13.788	13.640
4/1/17 22:00	13.800	13.676	13.642	13.671	13.741	13.793	13.673
4/2/17 0:00	13.790	13.758	13.724	13.710	13.821	13.797	13.707
4/2/17 2:00	13.785	13.689	13.693	13.666	13.755	13.786	13.671
4/2/17 4:00	13.754	13.674	13.640	13.665	13.740	13.754	13.665
4/2/17 6:00	13.736	13.719	13.688	13.675	13.783	13.746	13.672
4/2/17 8:00	13.741	13.666	13.669	13.646	13.734	13.746	13.650
4/2/17 10:00	13.733	13.673	13.642	13.664	13.740	13.737	13.664
4/2/17 12:00	13.712	13.703	13.674	13.662	13.766	13.725	13.660
4/2/17 14:00	13.673	13.609	13.612	13.590	13.673	13.680	13.594
4/2/17 16:00	13.644	13.590	13.567	13.585	13.658	13.650	13.586
4/2/17 18:00	13.625	13.618	13.594	13.584	13.681	13.637	13.582
4/2/17 20:00	13.616	13.567	13.575	13.558	13.636	13.630	13.561
4/2/17 22:00	13.625	13.589	13.569	13.588	13.654	13.638	13.587
4/3/17 0:00	13.605	13.606	13.585	13.579	13.674	13.621	13.575
4/3/17 2:00	13.591	13.551	13.557	13.542	13.618	13.606	13.545
4/3/17 4:00	13.578	13.546	13.527	13.545	13.611	13.590	13.545
4/3/17 6:00	13.568	13.571	13.551	13.543	13.636	13.584	13.541
4/3/17 8:00	13.576	13.536	13.544	13.529	13.603	13.590	13.532
4/3/17 10:00	13.579	13.547	13.531	13.548	13.617	13.592	13.548
4/3/17 12:00	13.569	13.553	13.524	13.540	13.617	13.581	13.538
4/3/17 14:00	13.575	13.522	13.540	13.526	13.590	13.585	13.529
4/3/17 16:00	13.569	13.540	13.541	13.541	13.611	13.580	13.539
4/3/17 18:00	13.597	13.581	13.551	13.571	13.645	13.607	13.568
4/3/17 20:00	13.619	13.578	13.590	13.580	13.646	13.633	13.583
4/3/17 22:00	13.654	13.632	13.633	13.633	13.702	13.669	13.631
4/4/17 0:00	13.667	13.659	13.629	13.646	13.720	13.680	13.646
4/4/17 2:00	13.660	13.622	13.637	13.625	13.690	13.675	13.628
4/4/17 4:00	13.669	13.648	13.650	13.650	13.717	13.683	13.647
4/4/17 6:00	13.679	13.672	13.644	13.661	13.737	13.693	13.660
4/4/17 8:00	13.679	13.644	13.658	13.647	13.713	13.696	13.650
4/4/17 10:00	13.694	13.678	13.678	13.678	13.749	13.711	13.677
4/4/17 12:00	13.696	13.689	13.660	13.678	13.753	13.710	13.676
4/4/17 14:00	13.689	13.652	13.668	13.657	13.720	13.705	13.660
4/4/17 16:00	13.667	13.649	13.651	13.650	13.720	13.682	13.649
4/4/17 18:00	13.668	13.661	13.633	13.652	13.726	13.681	13.650
4/4/17 20:00	13.682	13.645	13.663	13.653	13.716	13.698	13.654
4/4/17 22:00	13.706	13.690	13.691	13.691	13.759	13.722	13.689
4/5/17 0:00	13.705	13.700	13.673	13.691	13.763	13.719	13.689
4/5/17 2:00	13.718	13.681	13.698	13.688	13.751	13.733	13.690
4/5/17 4:00	13.726	13.712	13.714	13.715	13.782	13.743	13.712
4/5/17 6:00	13.742	13.738	13.710	13.728	13.799	13.755	13.726
4/5/17 8:00	13.755	13.721	13.737	13.728	13.791	13.770	13.730
4/5/17 10:00	13.762	13.748	13.749	13.749	13.815	13.778	13.748
4/5/17 12:00	13.768	13.763	13.736	13.754	13.828	13.779	13.751

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/5/17 14:00	13.760	13.725	13.740	13.732	13.793	13.774	13.734
4/5/17 16:00	13.755	13.735	13.737	13.737	13.806	13.766	13.736
4/5/17 18:00	13.758	13.751	13.725	13.742	13.814	13.768	13.740
4/5/17 20:00	13.770	13.737	13.753	13.745	13.804	13.785	13.746
4/5/17 22:00	13.785	13.771	13.774	13.775	13.842	13.801	13.772
4/6/17 0:00	13.802	13.800	13.774	13.791	13.863	13.815	13.788
4/6/17 2:00	13.818	13.787	13.804	13.795	13.858	13.833	13.797
4/6/17 4:00	13.825	13.813	13.815	13.815	13.881	13.841	13.812
4/6/17 6:00	13.832	13.830	13.806	13.823	13.893	13.845	13.819
4/6/17 8:00	13.858	13.829	13.845	13.836	13.898	13.875	13.837
4/6/17 10:00	13.876	13.863	13.866	13.866	13.932	13.891	13.864
4/6/17 12:00	13.883	13.880	13.855	13.872	13.945	13.894	13.869
4/6/17 14:00	13.868	13.835	13.850	13.841	13.903	13.879	13.843
4/6/17 16:00	13.855	13.835	13.837	13.837	13.906	13.863	13.836
4/6/17 18:00	13.845	13.835	13.811	13.828	13.900	13.851	13.826
4/6/17 20:00	13.833	13.801	13.816	13.807	13.868	13.846	13.809
4/6/17 22:00	13.842	13.830	13.833	13.833	13.901	13.858	13.831
4/7/17 0:00	13.839	13.839	13.816	13.832	13.903	13.854	13.830
4/7/17 2:00	13.838	13.811	13.828	13.818	13.883	13.854	13.819
4/7/17 4:00	13.827	13.816	13.819	13.819	13.885	13.842	13.816
4/7/17 6:00	13.813	13.814	13.791	13.806	13.877	13.826	13.803
4/7/17 8:00	13.813	13.788	13.803	13.794	13.856	13.828	13.795
4/7/17 10:00	13.795	13.787	13.788	13.790	13.854	13.811	13.785
4/7/17 12:00	13.769	13.768	13.745	13.762	13.835	13.781	13.758
4/7/17 14:00	13.730	13.695	13.712	13.704	13.763	13.740	13.705
4/7/17 16:00	13.705	13.687	13.690	13.691	13.755	13.713	13.689
4/7/17 18:00	13.676	13.666	13.643	13.659	13.731	13.680	13.657
4/7/17 20:00	13.660	13.629	13.646	13.638	13.696	13.673	13.640
4/7/17 22:00	13.650	13.638	13.642	13.643	13.710	13.665	13.640
4/8/17 0:00	13.632	13.632	13.609	13.626	13.696	13.645	13.623
4/8/17 2:00	13.612	13.586	13.602	13.593	13.656	13.627	13.594
4/8/17 4:00	13.587	13.576	13.580	13.581	13.647	13.603	13.578
4/8/17 6:00	13.576	13.576	13.554	13.569	13.640	13.589	13.566
4/8/17 8:00	13.576	13.550	13.566	13.557	13.620	13.591	13.559
4/8/17 10:00	13.569	13.557	13.560	13.561	13.626	13.583	13.559
4/8/17 12:00	13.580	13.574	13.551	13.568	13.641	13.587	13.566
4/8/17 14:00	13.567	13.532	13.549	13.542	13.600	13.574	13.542
4/8/17 16:00	13.555	13.532	13.536	13.536	13.599	13.558	13.534
4/8/17 18:00	13.538	13.528	13.504	13.521	13.592	13.539	13.518
4/8/17 20:00	13.527	13.496	13.512	13.505	13.564	13.538	13.507
4/8/17 22:00	13.529	13.518	13.521	13.522	13.588	13.543	13.520
4/9/17 0:00	13.518	13.520	13.498	13.514	13.584	13.532	13.511
4/9/17 2:00	13.507	13.478	13.497	13.488	13.551	13.522	13.490
4/9/17 4:00	13.500	13.489	13.493	13.493	13.559	13.515	13.491
4/9/17 6:00	13.492	13.493	13.470	13.485	13.556	13.504	13.484
4/9/17 8:00	13.512	13.486	13.502	13.496	13.556	13.527	13.496

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/9/17 10:00	13.517	13.507	13.511	13.511	13.576	13.532	13.509
4/9/17 12:00	13.534	13.531	13.509	13.523	13.597	13.541	13.521
4/9/17 14:00	13.537	13.500	13.518	13.510	13.570	13.542	13.511
4/9/17 16:00	13.531	13.507	13.511	13.511	13.575	13.532	13.509
4/9/17 18:00	13.540	13.529	13.507	13.523	13.595	13.541	13.521
4/9/17 20:00	13.594	13.564	13.582	13.575	13.633	13.606	13.576
4/9/17 22:00	13.638	13.628	13.632	13.633	13.699	13.653	13.631
4/10/17 0:00	13.657	13.661	13.638	13.654	13.724	13.671	13.652
4/10/17 2:00	13.681	13.658	13.674	13.666	13.725	13.697	13.668
4/10/17 4:00	13.700	13.693	13.697	13.698	13.762	13.716	13.695
4/10/17 6:00	13.715	13.721	13.699	13.714	13.783	13.729	13.711
4/10/17 8:00	13.730	13.708	13.725	13.717	13.780	13.746	13.718
4/10/17 10:00	13.759	13.752	13.756	13.757	13.822	13.775	13.754
4/10/17 12:00	13.796	13.798	13.778	13.793	13.861	13.808	13.790
4/10/17 14:00	13.794	13.768	13.787	13.778	13.838	13.807	13.781
4/10/17 16:00	13.806	13.794	13.799	13.800	13.863	13.817	13.798
4/10/17 18:00	13.811	13.813	13.792	13.808	13.879	13.821	13.805
4/10/17 20:00	13.827	13.802	13.820	13.812	13.871	13.841	13.814
4/10/17 22:00	13.846	13.838	13.845	13.845	13.907	13.861	13.841
4/11/17 0:00	13.858	13.863	13.843	13.858	13.929	13.871	13.855
4/11/17 2:00	13.863	13.842	13.859	13.851	13.910	13.878	13.852
4/11/17 4:00	13.861	13.854	13.860	13.860	13.926	13.875	13.856
4/11/17 6:00	13.876	13.880	13.862	13.875	13.946	13.888	13.872
4/11/17 8:00	13.891	13.871	13.887	13.880	13.939	13.905	13.881
4/11/17 10:00	13.895	13.889	13.895	13.894	13.960	13.911	13.892
4/11/17 12:00	13.890	13.896	13.876	13.891	13.959	13.902	13.887
4/11/17 14:00	13.852	13.826	13.844	13.837	13.895	13.862	13.837
4/11/17 16:00	13.820	13.807	13.812	13.813	13.876	13.828	13.810
4/11/17 18:00	13.805	13.801	13.782	13.796	13.864	13.808	13.793
4/11/17 20:00	13.801	13.780	13.796	13.789	13.850	13.814	13.789
4/11/17 22:00	13.818	13.810	13.817	13.817	13.880	13.833	13.815
4/12/17 0:00	13.811	13.818	13.800	13.813	13.884	13.825	13.810
4/12/17 2:00	13.809	13.790	13.807	13.800	13.859	13.824	13.800
4/12/17 4:00	13.805	13.800	13.806	13.806	13.867	13.820	13.803
4/12/17 6:00	13.800	13.807	13.788	13.801	13.873	13.814	13.799
4/12/17 8:00	13.791	13.775	13.790	13.783	13.843	13.807	13.784
4/12/17 10:00	13.783	13.777	13.783	13.784	13.849	13.798	13.781
4/12/17 12:00	13.774	13.780	13.762	13.775	13.844	13.788	13.773
4/12/17 14:00	13.744	13.717	13.734	13.728	13.785	13.751	13.728
4/12/17 16:00	13.742	13.723	13.729	13.727	13.792	13.745	13.723
4/12/17 18:00	13.744	13.737	13.719	13.728	13.800	13.746	13.726
4/12/17 20:00	13.760	13.734	13.753	13.739	13.804	13.772	13.741
4/12/17 22:00	13.779	13.771	13.778	13.770	13.840	13.794	13.769
4/13/17 0:00	13.792	13.796	13.778	13.785	13.863	13.805	13.783
4/13/17 2:00	13.787	13.767	13.784	13.770	13.835	13.803	13.772
4/13/17 4:00	13.787	13.782	13.788	13.783	13.849	13.804	13.781

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/13/17 6:00	13.797	13.803	13.786	13.794	13.869	13.811	13.791
4/13/17 8:00	13.806	13.786	13.805	13.792	13.855	13.822	13.793
4/13/17 10:00	13.817	13.810	13.817	13.812	13.881	13.831	13.809
4/13/17 12:00	13.819	13.819	13.801	13.811	13.884	13.827	13.808
4/13/17 14:00	13.793	13.766	13.784	13.772	13.834	13.801	13.773
4/13/17 16:00	13.780	13.765	13.772	13.769	13.835	13.787	13.766
4/13/17 18:00	13.769	13.770	13.750	13.763	13.835	13.770	13.760
4/13/17 20:00	13.752	13.729	13.746	13.739	13.801	13.758	13.739
4/13/17 22:00	13.757	13.748	13.753	13.752	13.818	13.766	13.750
4/14/17 0:00	13.749	13.753	13.733	13.746	13.816	13.758	13.743
4/14/17 2:00	13.733	13.709	13.728	13.718	13.780	13.745	13.720
4/14/17 4:00	13.711	13.700	13.706	13.705	13.770	13.716	13.702
4/14/17 6:00	13.689	13.693	13.673	13.685	13.759	13.694	13.683
4/14/17 8:00	13.685	13.661	13.678	13.671	13.730	13.689	13.672
4/14/17 10:00	13.670	13.661	13.667	13.666	13.728	13.678	13.662
4/14/17 12:00	13.648	13.649	13.629	13.642	13.714	13.657	13.639
4/14/17 14:00	13.627	13.597	13.614	13.606	13.665	13.632	13.606
4/14/17 16:00	13.616	13.592	13.599	13.597	13.663	13.615	13.594
4/14/17 18:00	13.606	13.592	13.575	13.587	13.657	13.602	13.584
4/14/17 20:00	13.591	13.564	13.580	13.573	13.629	13.599	13.573
4/14/17 22:00	13.593	13.584	13.590	13.590	13.654	13.607	13.586
4/15/17 0:00	13.602	13.606	13.587	13.599	13.668	13.614	13.596
4/15/17 2:00	13.617	13.597	13.614	13.606	13.667	13.632	13.607
4/15/17 4:00	13.597	13.590	13.597	13.597	13.660	13.613	13.594
4/15/17 6:00	13.609	13.616	13.598	13.612	13.678	13.625	13.607
4/15/17 8:00	13.608	13.590	13.606	13.599	13.658	13.624	13.599
4/15/17 10:00	13.630	13.620	13.626	13.626	13.688	13.642	13.623
4/15/17 12:00	13.655	13.652	13.634	13.647	13.718	13.660	13.644
4/15/17 14:00	13.657	13.626	13.644	13.637	13.695	13.661	13.638
4/15/17 16:00	13.669	13.645	13.651	13.653	13.713	13.666	13.650
4/15/17 18:00	13.678	13.672	13.655	13.668	13.738	13.680	13.666
4/15/17 20:00	13.682	13.660	13.674	13.670	13.726	13.690	13.670
4/15/17 22:00	13.697	13.692	13.698	13.699	13.763	13.712	13.696
4/16/17 0:00	13.730	13.737	13.720	13.732	13.801	13.744	13.730
4/16/17 2:00	13.738	13.721	13.738	13.733	13.789	13.754	13.733
4/16/17 4:00	13.751	13.747	13.754	13.757	13.818	13.768	13.752
4/16/17 6:00	13.767	13.777	13.760	13.772	13.839	13.783	13.769
4/16/17 8:00	13.793	13.776	13.795	13.787	13.849	13.810	13.788
4/16/17 10:00	13.811	13.808	13.815	13.816	13.878	13.826	13.812
4/16/17 12:00	13.820	13.829	13.812	13.825	13.892	13.832	13.822
4/16/17 14:00	13.812	13.795	13.814	13.808	13.865	13.827	13.808
4/16/17 16:00	13.800	13.793	13.801	13.802	13.861	13.813	13.798
4/16/17 18:00	13.799	13.802	13.786	13.799	13.867	13.808	13.796
4/16/17 20:00	13.792	13.776	13.794	13.790	13.845	13.807	13.789
4/16/17 22:00	13.806	13.804	13.812	13.813	13.876	13.823	13.809
4/17/17 0:00	13.804	13.815	13.799	13.813	13.880	13.820	13.809

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/17/17 2:00	13.808	13.796	13.812	13.808	13.862	13.825	13.807
4/17/17 4:00	13.806	13.804	13.813	13.812	13.875	13.823	13.810
4/17/17 6:00	13.807	13.819	13.803	13.817	13.883	13.824	13.813
4/17/17 8:00	13.821	13.809	13.827	13.822	13.880	13.840	13.821
4/17/17 10:00	13.818	13.816	13.824	13.824	13.885	13.834	13.821
4/17/17 12:00	13.818	13.822	13.808	13.820	13.886	13.827	13.817
4/17/17 14:00	13.793	13.771	13.790	13.787	13.842	13.803	13.786
4/17/17 16:00	13.773	13.759	13.767	13.769	13.826	13.777	13.765
4/17/17 18:00	13.744	13.747	13.732	13.747	13.814	13.751	13.743
4/17/17 20:00	13.730	13.719	13.734	13.732	13.786	13.745	13.730
4/17/17 22:00	13.727	13.726	13.733	13.736	13.793	13.743	13.731
4/18/17 0:00	13.725	13.735	13.721	13.735	13.802	13.740	13.731
4/18/17 2:00	13.720	13.710	13.727	13.724	13.777	13.737	13.722
4/18/17 4:00	13.705	13.705	13.713	13.715	13.775	13.722	13.710
4/18/17 6:00	13.704	13.714	13.700	13.712	13.779	13.718	13.709
4/18/17 8:00	13.717	13.705	13.722	13.719	13.776	13.733	13.719
4/18/17 10:00	13.721	13.718	13.726	13.729	13.788	13.736	13.725
4/18/17 12:00	13.721	13.722	13.709	13.722	13.785	13.726	13.718
4/18/17 14:00	13.712	13.690	13.708	13.706	13.760	13.717	13.705
4/18/17 16:00	13.711	13.693	13.701	13.705	13.761	13.709	13.700
4/18/17 18:00	13.698	13.698	13.683	13.698	13.764	13.700	13.694
4/18/17 20:00	13.687	13.672	13.689	13.688	13.740	13.698	13.686
4/18/17 22:00	13.694	13.693	13.700	13.704	13.761	13.709	13.700
4/19/17 0:00	13.691	13.702	13.690	13.703	13.768	13.705	13.699
4/19/17 2:00	13.688	13.675	13.693	13.692	13.743	13.703	13.691
4/19/17 4:00	13.671	13.671	13.680	13.683	13.743	13.688	13.679
4/19/17 6:00	13.651	13.664	13.650	13.664	13.728	13.667	13.659
4/19/17 8:00	13.643	13.632	13.651	13.649	13.703	13.660	13.647
4/19/17 10:00	13.626	13.625	13.634	13.637	13.695	13.641	13.633
4/19/17 12:00	13.628	13.633	13.619	13.635	13.696	13.635	13.629
4/19/17 14:00	13.624	13.603	13.621	13.621	13.675	13.629	13.618
4/19/17 16:00	13.658	13.648	13.655	13.661	13.716	13.662	13.656
4/19/17 18:00	13.677	13.681	13.668	13.683	13.748	13.682	13.679
4/19/17 20:00	13.687	13.677	13.693	13.693	13.746	13.700	13.691
4/19/17 22:00	13.716	13.720	13.727	13.732	13.787	13.734	13.728
4/20/17 0:00	13.758	13.776	13.764	13.777	13.841	13.776	13.772
4/20/17 2:00	13.804	13.804	13.818	13.819	13.869	13.823	13.815
4/20/17 4:00	13.815	13.822	13.828	13.835	13.892	13.832	13.827
4/20/17 6:00	13.793	13.808	13.796	13.811	13.874	13.809	13.806
4/20/17 8:00	13.810	13.806	13.822	13.823	13.874	13.827	13.820
4/20/17 10:00	13.818	13.820	13.830	13.834	13.891	13.833	13.829
4/20/17 12:00	13.826	13.838	13.826	13.840	13.902	13.837	13.835
4/20/17 14:00	13.810	13.803	13.819	13.821	13.872	13.823	13.816
4/20/17 16:00	13.785	13.782	13.790	13.795	13.850	13.793	13.788
4/20/17 18:00	13.776	13.781	13.770	13.783	13.848	13.780	13.778
4/20/17 20:00	13.765	13.759	13.777	13.776	13.829	13.780	13.774

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/20/17 22:00	13.781	13.788	13.796	13.800	13.856	13.799	13.794
4/21/17 0:00	13.801	13.818	13.809	13.821	13.886	13.818	13.816
4/21/17 2:00	13.793	13.791	13.808	13.809	13.861	13.811	13.805
4/21/17 4:00	13.795	13.800	13.809	13.813	13.868	13.810	13.808
4/21/17 6:00	13.811	13.829	13.819	13.831	13.895	13.827	13.826
4/21/17 8:00	13.779	13.779	13.795	13.796	13.848	13.797	13.792
4/21/17 10:00	13.779	13.787	13.796	13.800	13.858	13.798	13.794
4/21/17 12:00	13.790	13.808	13.798	13.810	13.874	13.806	13.806
4/21/17 14:00	13.778	13.775	13.792	13.792	13.842	13.794	13.789
4/21/17 16:00	13.781	13.788	13.798	13.802	13.858	13.799	13.796
4/21/17 18:00	13.794	13.812	13.803	13.815	13.877	13.811	13.809
4/21/17 20:00	13.810	13.811	13.826	13.826	13.881	13.827	13.822
4/21/17 22:00	13.834	13.841	13.850	13.855	13.911	13.848	13.849
4/22/17 0:00	13.840	13.858	13.849	13.862	13.923	13.852	13.856
4/22/17 2:00	13.842	13.844	13.859	13.860	13.913	13.858	13.856
4/22/17 4:00	13.838	13.847	13.856	13.859	13.915	13.857	13.855
4/22/17 6:00	13.848	13.865	13.856	13.869	13.933	13.862	13.862
4/22/17 8:00	13.870	13.872	13.887	13.889	13.941	13.888	13.884
4/22/17 10:00	13.878	13.885	13.896	13.899	13.954	13.896	13.893
4/22/17 12:00	13.881	13.898	13.890	13.902	13.964	13.896	13.895
4/22/17 14:00	13.870	13.869	13.885	13.887	13.936	13.886	13.882
4/22/17 16:00	13.859	13.861	13.870	13.874	13.931	13.870	13.868
4/22/17 18:00	13.853	13.864	13.855	13.867	13.928	13.862	13.861
4/22/17 20:00	13.845	13.843	13.860	13.859	13.914	13.860	13.856
4/22/17 22:00	13.851	13.860	13.870	13.873	13.930	13.869	13.866
4/23/17 0:00	13.850	13.870	13.863	13.873	13.933	13.868	13.867
4/23/17 2:00	13.849	13.851	13.868	13.868	13.921	13.868	13.863
4/23/17 4:00	13.832	13.842	13.852	13.855	13.910	13.851	13.849
4/23/17 6:00	13.825	13.843	13.837	13.847	13.911	13.842	13.841
4/23/17 8:00	13.827	13.830	13.847	13.846	13.900	13.846	13.842
4/23/17 10:00	13.821	13.829	13.840	13.842	13.897	13.838	13.836
4/23/17 12:00	13.810	13.828	13.820	13.830	13.893	13.825	13.824
4/23/17 14:00	13.764	13.765	13.780	13.781	13.832	13.779	13.775
4/23/17 16:00	13.734	13.736	13.746	13.748	13.807	13.745	13.742
4/23/17 18:00	13.703	13.718	13.711	13.721	13.782	13.715	13.714
4/23/17 20:00	13.681	13.685	13.700	13.700	13.752	13.699	13.695
4/23/17 22:00	13.673	13.682	13.693	13.696	13.752	13.691	13.689
4/24/17 0:00	13.658	13.678	13.673	13.681	13.742	13.675	13.675
4/24/17 2:00	13.641	13.647	13.661	13.663	13.717	13.660	13.656
4/24/17 4:00	13.606	13.617	13.628	13.630	13.686	13.625	13.623
4/24/17 6:00	13.575	13.596	13.589	13.599	13.659	13.593	13.592
4/24/17 8:00	13.571	13.578	13.592	13.593	13.646	13.591	13.587
4/24/17 10:00	13.547	13.555	13.566	13.568	13.624	13.564	13.562
4/24/17 12:00	13.534	13.549	13.543	13.552	13.616	13.545	13.545
4/24/17 14:00	13.523	13.521	13.538	13.536	13.590	13.533	13.531
4/24/17 16:00	13.526	13.521	13.532	13.534	13.592	13.529	13.528

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/24/17 18:00	13.529	13.535	13.530	13.537	13.600	13.530	13.531
4/24/17 20:00	13.521	13.520	13.536	13.536	13.588	13.533	13.530
4/24/17 22:00	13.523	13.532	13.544	13.545	13.604	13.540	13.540
4/25/17 0:00	13.520	13.543	13.538	13.546	13.607	13.538	13.539
4/25/17 2:00	13.506	13.513	13.529	13.528	13.585	13.525	13.523
4/25/17 4:00	13.491	13.503	13.513	13.515	13.572	13.509	13.509
4/25/17 6:00	13.492	13.512	13.508	13.516	13.576	13.509	13.510
4/25/17 8:00	13.496	13.501	13.517	13.515	13.572	13.514	13.512
4/25/17 10:00	13.524	13.537	13.547	13.550	13.604	13.543	13.543
4/25/17 12:00	13.522	13.541	13.537	13.545	13.609	13.538	13.539
4/25/17 14:00	13.535	13.543	13.559	13.558	13.612	13.554	13.553
4/25/17 16:00	13.544	13.554	13.565	13.566	13.622	13.561	13.560
4/25/17 18:00	13.556	13.576	13.573	13.580	13.643	13.572	13.574
4/25/17 20:00	13.580	13.588	13.604	13.603	13.656	13.600	13.598
4/25/17 22:00	13.602	13.614	13.626	13.627	13.686	13.621	13.620
4/26/17 0:00	13.614	13.634	13.631	13.638	13.699	13.630	13.631
4/26/17 2:00	13.615	13.622	13.639	13.639	13.694	13.634	13.632
4/26/17 4:00	13.627	13.640	13.652	13.653	13.709	13.646	13.646
4/26/17 6:00	13.629	13.650	13.647	13.654	13.715	13.647	13.648
4/26/17 8:00	13.640	13.648	13.664	13.663	13.719	13.659	13.658
4/26/17 10:00	13.635	13.647	13.658	13.660	13.716	13.653	13.653
4/26/17 12:00	13.632	13.653	13.651	13.658	13.718	13.649	13.651
4/26/17 14:00	13.629	13.637	13.653	13.651	13.707	13.647	13.646
4/26/17 16:00	13.623	13.636	13.648	13.649	13.704	13.643	13.643
4/26/17 18:00	13.608	13.626	13.624	13.630	13.694	13.622	13.623
4/26/17 20:00	13.603	13.610	13.626	13.624	13.679	13.620	13.618
4/26/17 22:00	13.619	13.630	13.643	13.643	13.698	13.637	13.636
4/27/17 0:00	13.628	13.650	13.647	13.653	13.716	13.646	13.647
4/27/17 2:00	13.633	13.641	13.656	13.654	13.708	13.651	13.649
4/27/17 4:00	13.615	13.625	13.638	13.637	13.696	13.632	13.632
4/27/17 6:00	13.611	13.633	13.631	13.636	13.698	13.628	13.630
4/27/17 8:00	13.612	13.621	13.639	13.636	13.693	13.632	13.631
4/27/17 10:00	13.620	13.633	13.645	13.645	13.703	13.639	13.638
4/27/17 12:00	13.606	13.629	13.627	13.632	13.693	13.625	13.626
4/27/17 14:00	13.581	13.592	13.607	13.605	13.662	13.602	13.600
4/27/17 16:00	13.575	13.588	13.601	13.600	13.657	13.594	13.593
4/27/17 18:00	13.574	13.597	13.593	13.599	13.665	13.588	13.593
4/27/17 20:00	13.575	13.587	13.602	13.600	13.655	13.595	13.593
4/27/17 22:00	13.584	13.595	13.609	13.609	13.665	13.603	13.602
4/28/17 0:00	13.577	13.600	13.596	13.603	13.666	13.591	13.597
4/28/17 2:00	13.571	13.571	13.588	13.590	13.638	13.589	13.586
4/28/17 4:00	13.562	13.563	13.575	13.582	13.634	13.578	13.577
4/28/17 6:00	13.558	13.569	13.555	13.577	13.633	13.570	13.572
4/28/17 8:00	13.566	13.557	13.572	13.578	13.623	13.579	13.576
4/28/17 10:00	13.575	13.573	13.581	13.592	13.642	13.588	13.587
4/28/17 12:00	13.591	13.603	13.587	13.610	13.665	13.605	13.604

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/28/17 14:00	13.629	13.618	13.634	13.638	13.688	13.643	13.637
4/28/17 16:00	13.658	13.658	13.668	13.676	13.728	13.675	13.672
4/28/17 18:00	13.684	13.695	13.682	13.700	13.764	13.697	13.696
4/28/17 20:00	13.715	13.711	13.724	13.731	13.778	13.731	13.725
4/28/17 22:00	13.761	13.763	13.772	13.779	13.831	13.778	13.774
4/29/17 0:00	13.759	13.773	13.759	13.778	13.838	13.773	13.772
4/29/17 2:00	13.740	13.737	13.751	13.754	13.804	13.757	13.751
4/29/17 4:00	13.745	13.746	13.753	13.759	13.817	13.760	13.756
4/29/17 6:00	13.754	13.771	13.755	13.775	13.833	13.769	13.769
4/29/17 8:00	13.755	13.752	13.764	13.771	13.817	13.771	13.766
4/29/17 10:00	13.759	13.757	13.764	13.773	13.827	13.772	13.769
4/29/17 12:00	13.755	13.768	13.753	13.772	13.831	13.770	13.769
4/29/17 14:00	13.741	13.735	13.749	13.754	13.804	13.758	13.752
4/29/17 16:00	13.724	13.725	13.732	13.741	13.793	13.738	13.737
4/29/17 18:00	13.729	13.741	13.725	13.745	13.807	13.740	13.741
4/29/17 20:00	13.733	13.687	13.703	13.716	13.754	13.738	13.718
4/29/17 22:00	13.740	13.702	13.706	13.727	13.769	13.739	13.726
4/30/17 0:00	13.705	13.661	13.618	13.667	13.719	13.687	13.665
4/30/17 2:00	13.680	13.578	13.605	13.601	13.644	13.650	13.607
4/30/17 4:00	13.634	13.560	13.563	13.570	13.630	13.609	13.571
4/30/17 6:00	13.598	13.419	13.375	13.422	13.478	13.487	13.425
4/30/17 8:00	13.529	13.329	13.367	13.343	13.396	13.444	13.348
4/30/17 10:00	13.580	13.320	13.346	13.334	13.391	13.445	13.334
4/30/17 12:00	13.569	13.336	13.283	13.312	13.392	13.388	13.312
4/30/17 14:00	13.557	13.306	13.343	13.292	13.375	13.409	13.298
4/30/17 16:00	13.556	13.392	13.391	13.369	13.460	13.439	13.369
4/30/17 18:00	13.561	13.430	13.358	13.381	13.484	13.418	13.381
4/30/17 20:00	13.569	13.397	13.418	13.366	13.463	13.457	13.372
4/30/17 22:00	13.576	13.459	13.449	13.424	13.525	13.476	13.423
5/1/17 0:00	13.583	13.481	13.408	13.426	13.539	13.450	13.426
5/1/17 2:00	13.583	13.430	13.443	13.389	13.495	13.474	13.396
5/1/17 4:00	13.594	13.479	13.467	13.440	13.546	13.492	13.439
5/1/17 6:00	13.610	13.516	13.443	13.457	13.573	13.483	13.458
5/1/17 8:00	13.630	13.497	13.510	13.455	13.561	13.535	13.461
5/1/17 10:00	13.644	13.562	13.552	13.521	13.630	13.598	13.520
5/1/17 12:00	13.663	13.604	13.541	13.546	13.661	13.602	13.546
5/1/17 14:00	13.662	13.567	13.583	13.526	13.635	13.643	13.531
5/1/17 16:00	13.657	13.600	13.595	13.566	13.667	13.651	13.564
5/1/17 18:00	13.659	13.621	13.574	13.577	13.679	13.647	13.575
5/1/17 20:00	13.667	13.604	13.616	13.575	13.670	13.668	13.578
5/1/17 22:00	13.691	13.653	13.653	13.630	13.720	13.696	13.628
5/2/17 0:00	13.719	13.697	13.657	13.660	13.755	13.718	13.658
5/2/17 2:00	13.728	13.676	13.690	13.653	13.742	13.733	13.657
5/2/17 4:00	13.727	13.696	13.697	13.677	13.762	13.734	13.674
5/2/17 6:00	13.733	13.718	13.679	13.684	13.778	13.733	13.682
5/2/17 8:00	13.749	13.699	13.715	13.681	13.766	13.755	13.684

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/2/17 10:00	13.759	13.727	13.729	13.711	13.794	13.763	13.708
5/2/17 12:00	13.769	13.754	13.716	13.723	13.814	13.767	13.721
5/2/17 14:00	13.769	13.719	13.733	13.703	13.783	13.769	13.706
5/2/17 16:00	13.754	13.721	13.722	13.708	13.789	13.755	13.705
5/2/17 18:00	13.754	13.739	13.704	13.712	13.800	13.753	13.711
5/2/17 20:00	13.757	13.712	13.726	13.700	13.775	13.760	13.703
5/2/17 22:00	13.763	13.734	13.737	13.723	13.803	13.765	13.721
5/3/17 0:00	13.758	13.748	13.713	13.721	13.807	13.758	13.720
5/3/17 2:00	13.761	13.718	13.733	13.707	13.786	13.766	13.709
5/3/17 4:00	13.751	13.725	13.727	13.714	13.793	13.756	13.712
5/3/17 6:00	13.764	13.755	13.721	13.727	13.817	13.764	13.727
5/3/17 8:00	13.780	13.738	13.753	13.727	13.805	13.785	13.730
5/3/17 10:00	13.784	13.757	13.759	13.745	13.823	13.787	13.744
5/3/17 12:00	13.779	13.768	13.733	13.743	13.828	13.776	13.741
5/3/17 14:00	13.767	13.726	13.738	13.716	13.792	13.768	13.718
5/3/17 16:00	13.775	13.747	13.746	13.737	13.816	13.758	13.736
5/3/17 18:00	13.788	13.773	13.739	13.749	13.835	13.778	13.749
5/3/17 20:00	13.793	13.751	13.765	13.743	13.816	13.795	13.744
5/3/17 22:00	13.817	13.793	13.796	13.785	13.862	13.823	13.783
5/4/17 0:00	13.830	13.823	13.791	13.801	13.882	13.832	13.799
5/4/17 2:00	13.826	13.789	13.804	13.781	13.858	13.832	13.782
5/4/17 4:00	13.815	13.794	13.797	13.785	13.861	13.822	13.783
5/4/17 6:00	13.812	13.807	13.777	13.784	13.865	13.814	13.782
5/4/17 8:00	13.824	13.790	13.803	13.781	13.858	13.830	13.782
5/4/17 10:00	13.834	13.811	13.814	13.802	13.878	13.837	13.800
5/4/17 12:00	13.833	13.823	13.793	13.802	13.886	13.828	13.801
5/4/17 14:00	13.817	13.775	13.791	13.770	13.841	13.816	13.772
5/4/17 16:00	13.808	13.782	13.783	13.775	13.846	13.805	13.772
5/4/17 18:00	13.804	13.790	13.759	13.772	13.852	13.795	13.769
5/4/17 20:00	13.794	13.757	13.770	13.751	13.822	13.795	13.753
5/4/17 22:00	13.795	13.779	13.781	13.772	13.846	13.803	13.770
5/5/17 0:00	13.792	13.789	13.761	13.772	13.850	13.795	13.769
5/5/17 2:00	13.791	13.763	13.775	13.756	13.827	13.798	13.758
5/5/17 4:00	13.789	13.773	13.776	13.767	13.841	13.796	13.765
5/5/17 6:00	13.784	13.781	13.754	13.763	13.843	13.786	13.761
5/5/17 8:00	13.795	13.768	13.782	13.762	13.836	13.802	13.763
5/5/17 10:00	13.794	13.776	13.778	13.770	13.842	13.797	13.767
5/5/17 12:00	13.787	13.780	13.750	13.761	13.843	13.779	13.758
5/5/17 14:00	13.761	13.723	13.739	13.720	13.790	13.757	13.722
5/5/17 16:00	13.743	13.715	13.718	13.711	13.780	13.734	13.708
5/5/17 18:00	13.728	13.709	13.681	13.691	13.770	13.709	13.688
5/5/17 20:00	13.713	13.673	13.689	13.672	13.740	13.708	13.673
5/5/17 22:00	13.716	13.700	13.704	13.696	13.769	13.721	13.694
5/6/17 0:00	13.714	13.716	13.690	13.700	13.777	13.718	13.697
5/6/17 2:00	13.717	13.691	13.706	13.688	13.756	13.724	13.690
5/6/17 4:00	13.712	13.698	13.703	13.695	13.767	13.719	13.692

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/6/17 6:00	13.716	13.719	13.693	13.703	13.779	13.719	13.700
5/6/17 8:00	13.724	13.696	13.714	13.696	13.765	13.730	13.697
5/6/17 10:00	13.728	13.707	13.712	13.705	13.775	13.726	13.702
5/6/17 12:00	13.728	13.716	13.690	13.700	13.776	13.714	13.698
5/6/17 14:00	13.718	13.677	13.692	13.676	13.745	13.707	13.677
5/6/17 16:00	13.707	13.674	13.678	13.672	13.741	13.691	13.670
5/6/17 18:00	13.698	13.676	13.651	13.662	13.739	13.675	13.658
5/6/17 20:00	13.682	13.651	13.663	13.649	13.716	13.678	13.649
5/6/17 22:00	13.686	13.676	13.680	13.674	13.740	13.693	13.671
5/7/17 0:00	13.692	13.696	13.674	13.683	13.759	13.696	13.680
5/7/17 2:00	13.692	13.673	13.688	13.673	13.740	13.702	13.674
5/7/17 4:00	13.696	13.687	13.693	13.686	13.752	13.705	13.683
5/7/17 6:00	13.695	13.700	13.678	13.688	13.762	13.699	13.684
5/7/17 8:00	13.697	13.678	13.691	13.677	13.742	13.704	13.677
5/7/17 10:00	13.688	13.673	13.678	13.672	13.741	13.688	13.669
5/7/17 12:00	13.683	13.677	13.654	13.664	13.737	13.673	13.660
5/7/17 14:00	13.666	13.631	13.645	13.634	13.700	13.656	13.633
5/7/17 16:00	13.653	13.623	13.630	13.625	13.692	13.638	13.622
5/7/17 18:00	13.635	13.630	13.609	13.620	13.690	13.625	13.617
5/7/17 20:00	13.633	13.605	13.623	13.614	13.674	13.633	13.613
5/7/17 22:00	13.651	13.642	13.648	13.645	13.708	13.657	13.642
5/8/17 0:00	13.665	13.673	13.652	13.664	13.736	13.670	13.660
5/8/17 2:00	13.690	13.675	13.692	13.682	13.741	13.701	13.681
5/8/17 4:00	13.681	13.674	13.680	13.677	13.739	13.688	13.674
5/8/17 6:00	13.675	13.682	13.662	13.674	13.745	13.679	13.669
5/8/17 8:00	13.690	13.674	13.688	13.678	13.738	13.697	13.677
5/8/17 10:00	13.706	13.694	13.701	13.698	13.763	13.709	13.695
5/8/17 12:00	13.719	13.715	13.695	13.707	13.777	13.709	13.703
5/8/17 14:00	13.710	13.681	13.697	13.689	13.752	13.703	13.688
5/8/17 16:00	13.706	13.680	13.688	13.688	13.750	13.693	13.684
5/8/17 18:00	13.695	13.687	13.670	13.683	13.749	13.681	13.678
5/8/17 20:00	13.694	13.671	13.687	13.682	13.743	13.692	13.680
5/8/17 22:00	13.700	13.696	13.703	13.704	13.763	13.708	13.699
5/9/17 0:00	13.719	13.728	13.713	13.724	13.793	13.724	13.720
5/9/17 2:00	13.733	13.721	13.738	13.732	13.790	13.743	13.731
5/9/17 4:00	13.721	13.720	13.727	13.728	13.785	13.732	13.723
5/9/17 6:00	13.721	13.731	13.716	13.727	13.795	13.727	13.723
5/9/17 8:00	13.733	13.723	13.738	13.733	13.790	13.742	13.731
5/9/17 10:00	13.742	13.738	13.746	13.748	13.807	13.750	13.743
5/9/17 12:00	13.738	13.744	13.729	13.742	13.806	13.738	13.736
5/9/17 14:00	13.715	13.700	13.715	13.712	13.766	13.717	13.708
5/9/17 16:00	13.705	13.690	13.700	13.701	13.759	13.701	13.696
5/9/17 18:00	13.675	13.683	13.668	13.682	13.744	13.677	13.676
5/9/17 20:00	13.666	13.652	13.669	13.667	13.722	13.672	13.664
5/9/17 22:00	13.670	13.667	13.678	13.679	13.735	13.680	13.675
5/10/17 0:00	13.670	13.681	13.668	13.681	13.747	13.678	13.675

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/10/17 2:00	13.660	13.650	13.668	13.664	13.717	13.671	13.661
5/10/17 4:00	13.663	13.664	13.673	13.676	13.729	13.675	13.670
5/10/17 6:00	13.663	13.677	13.664	13.676	13.742	13.672	13.671
5/10/17 8:00	13.669	13.660	13.678	13.674	13.727	13.680	13.672
5/10/17 10:00	13.691	13.689	13.699	13.702	13.759	13.701	13.696
5/10/17 12:00	13.687	13.692	13.680	13.693	13.755	13.687	13.687
5/10/17 14:00	13.699	13.683	13.701	13.699	13.749	13.703	13.697
5/10/17 16:00	13.704	13.696	13.707	13.710	13.765	13.707	13.704
5/10/17 18:00	13.709	13.717	13.706	13.718	13.779	13.711	13.712
5/10/17 20:00	13.721	13.713	13.732	13.729	13.783	13.732	13.727
5/10/17 22:00	13.732	13.733	13.744	13.747	13.801	13.745	13.741
5/11/17 0:00	13.732	13.745	13.736	13.746	13.811	13.742	13.741
5/11/17 2:00	13.738	13.732	13.752	13.749	13.801	13.751	13.745
5/11/17 4:00	13.750	13.754	13.761	13.766	13.819	13.751	13.760
5/11/17 6:00	13.765	13.774	13.755	13.778	13.837	13.744	13.773
5/11/17 8:00	13.748	13.719	13.740	13.748	13.787	13.728	13.747
5/11/17 10:00	13.765	13.754	13.762	13.774	13.825	13.750	13.769
5/11/17 12:00	13.777	13.783	13.760	13.786	13.844	13.749	13.782
5/11/17 14:00	13.788	13.766	13.784	13.789	13.832	13.771	13.788
5/11/17 16:00	13.782	13.772	13.777	13.789	13.840	13.767	13.785
5/11/17 18:00	13.766	13.764	13.740	13.767	13.824	13.729	13.761
5/11/17 20:00	13.775	13.749	13.767	13.770	13.818	13.761	13.770
5/11/17 22:00	13.791	13.783	13.790	13.800	13.849	13.784	13.794
5/12/17 0:00	13.797	13.805	13.784	13.808	13.868	13.780	13.802
5/12/17 2:00	13.796	13.778	13.796	13.800	13.846	13.788	13.797
5/12/17 4:00	13.798	13.792	13.797	13.807	13.857	13.789	13.802
5/12/17 6:00	13.798	13.805	13.785	13.808	13.868	13.778	13.803
5/12/17 8:00	13.801	13.782	13.800	13.803	13.852	13.790	13.801
5/12/17 10:00	13.802	13.793	13.800	13.808	13.858	13.793	13.803
5/12/17 12:00	13.803	13.805	13.785	13.807	13.868	13.781	13.802
5/12/17 14:00	13.788	13.767	13.784	13.786	13.832	13.786	13.783
5/12/17 16:00	13.776	13.761	13.771	13.778	13.830	13.773	13.771
5/12/17 18:00	13.763	13.760	13.746	13.763	13.822	13.754	13.759
5/12/17 20:00	13.753	13.731	13.751	13.752	13.797	13.754	13.749
5/12/17 22:00	13.752	13.748	13.757	13.764	13.815	13.760	13.758
5/13/17 0:00	13.752	13.764	13.749	13.767	13.825	13.759	13.762
5/13/17 2:00	13.744	13.731	13.751	13.752	13.801	13.754	13.748
5/13/17 4:00	13.736	13.734	13.744	13.750	13.801	13.747	13.745
5/13/17 6:00	13.728	13.739	13.726	13.742	13.800	13.734	13.737
5/13/17 8:00	13.725	13.713	13.732	13.733	13.780	13.734	13.730
5/13/17 10:00	13.722	13.715	13.726	13.730	13.781	13.726	13.726
5/13/17 12:00	13.710	13.715	13.701	13.717	13.777	13.706	13.712
5/13/17 14:00	13.681	13.661	13.680	13.682	13.729	13.680	13.679
5/13/17 16:00	13.664	13.650	13.661	13.666	13.720	13.659	13.659
5/13/17 18:00	13.649	13.646	13.636	13.650	13.709	13.640	13.645
5/13/17 20:00	13.631	13.618	13.637	13.638	13.683	13.637	13.634

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/13/17 22:00	13.626	13.625	13.636	13.641	13.694	13.635	13.635
5/14/17 0:00	13.629	13.643	13.630	13.644	13.702	13.636	13.639
5/14/17 2:00	13.616	13.608	13.628	13.629	13.676	13.628	13.625
5/14/17 4:00	13.605	13.606	13.617	13.622	13.672	13.616	13.615
5/14/17 6:00	13.604	13.615	13.606	13.620	13.677	13.610	13.614
5/14/17 8:00	13.610	13.599	13.619	13.619	13.667	13.618	13.616
5/14/17 10:00	13.613	13.607	13.620	13.624	13.674	13.617	13.618
5/14/17 12:00	13.634	13.636	13.627	13.640	13.701	13.629	13.636
5/14/17 14:00	13.636	13.618	13.637	13.638	13.684	13.633	13.633
5/14/17 16:00	13.645	13.626	13.639	13.642	13.693	13.634	13.636
5/14/17 18:00	13.648	13.638	13.632	13.643	13.703	13.632	13.637
5/14/17 20:00	13.644	13.628	13.648	13.647	13.694	13.645	13.643
5/14/17 22:00	13.643	13.644	13.658	13.659	13.712	13.653	13.654
5/15/17 0:00	13.645	13.661	13.653	13.664	13.723	13.654	13.658
5/15/17 2:00	13.639	13.634	13.655	13.653	13.704	13.650	13.649
5/15/17 4:00	13.634	13.636	13.649	13.653	13.704	13.645	13.646
5/15/17 6:00	13.631	13.646	13.639	13.650	13.707	13.639	13.644
5/15/17 8:00	13.636	13.629	13.650	13.648	13.698	13.646	13.645
5/15/17 10:00	13.639	13.638	13.649	13.651	13.703	13.644	13.645
5/15/17 12:00	13.644	13.649	13.644	13.653	13.715	13.641	13.648
5/15/17 14:00	13.629	13.611	13.630	13.629	13.678	13.624	13.625
5/15/17 16:00	13.615	13.597	13.612	13.613	13.664	13.604	13.606
5/15/17 18:00	13.594	13.591	13.587	13.595	13.655	13.583	13.589
5/15/17 20:00	13.580	13.571	13.591	13.588	13.638	13.584	13.584
5/15/17 22:00	13.622	13.624	13.638	13.640	13.693	13.632	13.633
5/16/17 0:00	13.601	13.622	13.616	13.625	13.683	13.613	13.618
5/16/17 2:00	13.574	13.573	13.593	13.590	13.639	13.586	13.586
5/16/17 4:00	13.569	13.576	13.590	13.590	13.644	13.583	13.584
5/16/17 6:00	13.546	13.565	13.561	13.569	13.627	13.558	13.563
5/16/17 8:00	13.553	13.553	13.572	13.570	13.621	13.565	13.565
5/16/17 10:00	13.555	13.555	13.569	13.571	13.623	13.562	13.564
5/16/17 12:00	13.557	13.566	13.562	13.569	13.627	13.557	13.562
5/16/17 14:00	13.552	13.538	13.559	13.556	13.608	13.550	13.551
5/16/17 16:00	13.528	13.521	13.536	13.535	13.589	13.527	13.529
5/16/17 18:00	13.570	13.588	13.584	13.591	13.651	13.579	13.584
5/16/17 20:00	13.499	13.498	13.517	13.517	13.564	13.516	13.512
5/16/17 22:00	13.483	13.488	13.502	13.505	13.553	13.500	13.498
5/17/17 0:00	13.504	13.523	13.516	13.529	13.585	13.519	13.520
5/17/17 2:00	13.509	13.415	13.452	13.468	13.483	13.451	13.472
5/17/17 4:00	13.483	13.232	13.256	13.292	13.302	13.251	13.298
5/17/17 6:00	13.453	13.367	13.298	13.351	13.424	13.288	13.351
5/17/17 8:00	13.448	13.014	13.099	13.077	13.081	13.151	13.091
5/17/17 10:00	13.455	13.014	13.051	13.025	13.081	13.042	13.030
5/17/17 12:00	13.445	13.040	12.962	12.985	13.096	12.954	12.990
5/17/17 14:00	13.485	13.173	13.210	13.130	13.243	13.208	13.141
5/17/17 16:00	13.507	13.344	13.322	13.284	13.411	13.317	13.285

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/17/17 18:00	13.536	13.440	13.351	13.361	13.493	13.357	13.362
5/17/17 20:00	13.575	13.449	13.459	13.394	13.513	13.472	13.400
5/17/17 22:00	13.601	13.536	13.518	13.481	13.599	13.535	13.480
5/18/17 0:00	13.626	13.587	13.522	13.523	13.646	13.548	13.522
5/18/17 2:00	13.635	13.556	13.566	13.510	13.620	13.578	13.515
5/18/17 4:00	13.639	13.592	13.580	13.549	13.656	13.583	13.548
5/18/17 6:00	13.651	13.629	13.569	13.573	13.685	13.576	13.570
5/18/17 8:00	13.670	13.603	13.613	13.566	13.669	13.614	13.570
5/18/17 10:00	13.681	13.642	13.633	13.608	13.711	13.632	13.605
5/18/17 12:00	13.681	13.663	13.611	13.616	13.721	13.614	13.614
5/18/17 14:00	13.674	13.619	13.629	13.590	13.686	13.629	13.594
5/18/17 16:00	13.654	13.621	13.613	13.593	13.687	13.617	13.592
5/18/17 18:00	13.639	13.624	13.580	13.584	13.681	13.601	13.583
5/18/17 20:00	13.683	13.465	13.476	13.425	13.524	13.469	13.433
5/18/17 22:00	13.663	13.326	13.326	13.269	13.390	13.319	13.273
5/19/17 0:00	13.681	13.511	13.401	13.412	13.564	13.405	13.414
5/19/17 2:00	13.694	13.502	13.515	13.431	13.567	13.519	13.442
5/19/17 4:00	13.700	13.593	13.570	13.526	13.657	13.569	13.526
5/19/17 6:00	13.719	13.654	13.567	13.572	13.710	13.566	13.571
5/19/17 8:00	13.707	13.597	13.600	13.531	13.660	13.597	13.537
5/19/17 10:00	13.727	13.659	13.640	13.605	13.728	13.636	13.603
5/19/17 12:00	13.709	13.666	13.592	13.595	13.723	13.591	13.594
5/19/17 14:00	13.717	13.442	13.458	13.398	13.494	13.458	13.400
5/19/17 16:00	13.701	13.438	13.414	13.370	13.500	13.420	13.369
5/19/17 18:00	13.698	13.457	13.336	13.339	13.505	13.343	13.340
5/19/17 20:00	13.694	13.447	13.466	13.361	13.512	13.481	13.372
5/19/17 22:00	13.703	13.535	13.514	13.451	13.599	13.581	13.451
5/20/17 0:00	13.703	13.572	13.464	13.466	13.625	13.488	13.465
5/20/17 2:00	13.699	13.254	13.308	13.146	13.316	13.560	13.156
5/20/17 4:00	13.690	13.459	13.452	13.364	13.527	13.656	13.362
5/20/17 6:00	13.688	13.562	13.461	13.443	13.617	13.653	13.442
5/20/17 8:00	13.702	13.537	13.566	13.448	13.602	13.687	13.455
5/20/17 10:00	13.713	13.626	13.612	13.543	13.695	13.705	13.539
5/20/17 12:00	13.718	13.667	13.589	13.572	13.724	13.705	13.570
5/20/17 14:00	13.723	13.627	13.647	13.556	13.692	13.723	13.560
5/20/17 16:00	13.731	13.680	13.671	13.616	13.748	13.735	13.613
5/20/17 18:00	13.743	13.718	13.658	13.646	13.774	13.742	13.643
5/20/17 20:00	13.751	13.681	13.701	13.630	13.751	13.756	13.633
5/20/17 22:00	13.769	13.730	13.726	13.681	13.797	13.775	13.678
5/21/17 0:00	13.784	13.767	13.717	13.706	13.828	13.786	13.703
5/21/17 2:00	13.786	13.730	13.747	13.685	13.796	13.793	13.687
5/21/17 4:00	13.777	13.745	13.742	13.700	13.811	13.784	13.697
5/21/17 6:00	13.787	13.775	13.729	13.720	13.835	13.790	13.716
5/21/17 8:00	13.805	13.751	13.771	13.711	13.818	13.812	13.714
5/21/17 10:00	13.821	13.787	13.785	13.747	13.857	13.825	13.745
5/21/17 12:00	13.823	13.810	13.765	13.761	13.869	13.821	13.757

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/21/17 14:00	13.808	13.756	13.776	13.726	13.822	13.810	13.728
5/21/17 16:00	13.795	13.760	13.760	13.730	13.828	13.793	13.726
5/21/17 18:00	13.784	13.769	13.730	13.728	13.826	13.776	13.724
5/21/17 20:00	13.788	13.739	13.759	13.716	13.807	13.789	13.718
5/21/17 22:00	13.793	13.768	13.772	13.742	13.836	13.801	13.741
5/22/17 0:00	13.791	13.791	13.754	13.751	13.846	13.797	13.747
5/22/17 2:00	13.800	13.761	13.780	13.738	13.828	13.808	13.739
5/22/17 4:00	13.787	13.766	13.765	13.738	13.831	13.790	13.735
5/22/17 6:00	13.767	13.764	13.726	13.723	13.826	13.764	13.720
5/22/17 8:00	13.764	13.718	13.740	13.694	13.788	13.763	13.697
5/22/17 10:00	13.768	13.742	13.744	13.716	13.811	13.769	13.714
5/22/17 12:00	13.759	13.755	13.715	13.714	13.812	13.755	13.710
5/22/17 14:00	13.735	13.693	13.714	13.672	13.760	13.740	13.674
5/22/17 16:00	13.713	13.684	13.687	13.662	13.753	13.714	13.659
5/22/17 18:00	13.698	13.691	13.657	13.657	13.750	13.697	13.653
5/22/17 20:00	13.707	13.666	13.687	13.649	13.736	13.712	13.651
5/22/17 22:00	13.741	13.713	13.709	13.689	13.781	13.742	13.687
5/23/17 0:00	13.761	13.755	13.714	13.718	13.814	13.757	13.715
5/23/17 2:00	13.750	13.708	13.727	13.688	13.778	13.757	13.691
5/23/17 4:00	13.762	13.738	13.738	13.715	13.806	13.767	13.713
5/23/17 6:00	13.753	13.752	13.713	13.714	13.809	13.755	13.711
5/23/17 8:00	13.755	13.715	13.735	13.695	13.783	13.762	13.698
5/23/17 10:00	13.749	13.726	13.726	13.703	13.791	13.754	13.700
5/23/17 12:00	13.740	13.735	13.697	13.700	13.795	13.738	13.696
5/23/17 14:00	13.733	13.694	13.714	13.677	13.761	13.742	13.679
5/23/17 16:00	13.728	13.704	13.708	13.687	13.771	13.736	13.683
5/23/17 18:00	13.726	13.725	13.689	13.692	13.784	13.730	13.688
5/23/17 20:00	13.719	13.683	13.705	13.668	13.749	13.730	13.670
5/23/17 22:00	13.724	13.705	13.707	13.687	13.772	13.734	13.683
5/24/17 0:00	13.719	13.721	13.688	13.689	13.780	13.728	13.686
5/24/17 2:00	13.707	13.673	13.695	13.658	13.743	13.719	13.660
5/24/17 4:00	13.692	13.675	13.679	13.658	13.742	13.704	13.655
5/24/17 6:00	13.685	13.688	13.655	13.656	13.746	13.693	13.652
5/24/17 8:00	13.681	13.648	13.669	13.633	13.716	13.692	13.634
5/24/17 10:00	13.675	13.654	13.660	13.638	13.721	13.683	13.635
5/24/17 12:00	13.657	13.655	13.623	13.624	13.717	13.660	13.622
5/24/17 14:00	13.636	13.602	13.623	13.590	13.670	13.644	13.591
5/24/17 16:00	13.621	13.598	13.603	13.584	13.665	13.624	13.580
5/24/17 18:00	13.603	13.595	13.565	13.567	13.656	13.598	13.563
5/24/17 20:00	13.583	13.549	13.568	13.536	13.615	13.588	13.538
5/24/17 22:00	13.579	13.563	13.568	13.549	13.632	13.588	13.547
5/25/17 0:00	13.571	13.575	13.546	13.547	13.635	13.577	13.544
5/25/17 2:00	13.566	13.538	13.560	13.529	13.604	13.577	13.529
5/25/17 4:00	13.552	13.537	13.543	13.524	13.605	13.563	13.522
5/25/17 6:00	13.549	13.554	13.526	13.526	13.613	13.555	13.523
5/25/17 8:00	13.543	13.518	13.538	13.505	13.585	13.555	13.506

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/25/17 10:00	13.549	13.528	13.535	13.515	13.597	13.553	13.513
5/25/17 12:00	13.524	13.525	13.498	13.499	13.584	13.526	13.495
5/25/17 14:00	13.513	13.482	13.502	13.472	13.549	13.515	13.472
5/25/17 16:00	13.520	13.491	13.497	13.479	13.558	13.512	13.477
5/25/17 18:00	13.527	13.515	13.489	13.489	13.576	13.513	13.486
5/25/17 20:00	13.549	13.520	13.542	13.512	13.588	13.555	13.514
5/25/17 22:00	13.613	13.598	13.603	13.586	13.669	13.610	13.584
5/26/17 0:00	13.552	13.556	13.526	13.531	13.617	13.549	13.528
5/26/17 2:00	13.587	13.558	13.580	13.551	13.626	13.591	13.553
5/26/17 4:00	13.597	13.581	13.588	13.572	13.651	13.604	13.569
5/26/17 6:00	13.624	13.630	13.600	13.603	13.689	13.622	13.600
5/26/17 8:00	13.661	13.631	13.653	13.624	13.702	13.667	13.626
5/26/17 10:00	13.679	13.660	13.667	13.650	13.728	13.682	13.649
5/26/17 12:00	13.692	13.692	13.665	13.668	13.752	13.691	13.666
5/26/17 14:00	13.690	13.659	13.679	13.654	13.728	13.693	13.654
5/26/17 16:00	13.689	13.663	13.671	13.657	13.730	13.686	13.654
5/26/17 18:00	13.683	13.677	13.650	13.656	13.737	13.676	13.651
5/26/17 20:00	13.673	13.642	13.665	13.640	13.711	13.677	13.642
5/26/17 22:00	13.678	13.666	13.675	13.661	13.733	13.689	13.659
5/27/17 0:00	13.681	13.690	13.666	13.671	13.751	13.691	13.666
5/27/17 2:00	13.689	13.667	13.689	13.665	13.733	13.701	13.665
5/27/17 4:00	13.718	13.405	13.423	13.371	13.472	13.675	13.375
5/27/17 6:00	13.674	13.484	13.370	13.377	13.537	13.594	13.379
5/27/17 8:00	13.665	13.447	13.481	13.375	13.512	13.620	13.387
5/27/17 10:00	13.696	13.573	13.556	13.502	13.639	13.658	13.503
5/27/17 12:00	13.707	13.635	13.547	13.547	13.687	13.663	13.546
5/27/17 14:00	13.712	13.598	13.618	13.536	13.666	13.698	13.544
5/27/17 16:00	13.711	13.649	13.639	13.597	13.714	13.704	13.596
5/27/17 18:00	13.719	13.693	13.636	13.634	13.752	13.711	13.631
5/27/17 20:00	13.731	13.669	13.689	13.633	13.736	13.735	13.637
5/27/17 22:00	13.751	13.713	13.711	13.680	13.780	13.755	13.678
5/28/17 0:00	13.754	13.744	13.695	13.695	13.803	13.754	13.693
5/28/17 2:00	13.754	13.703	13.724	13.675	13.769	13.761	13.679
5/28/17 4:00	13.751	13.722	13.721	13.692	13.788	13.757	13.690
5/28/17 6:00	13.744	13.737	13.695	13.695	13.795	13.745	13.692
5/28/17 8:00	13.756	13.707	13.729	13.684	13.775	13.762	13.687
5/28/17 10:00	13.771	13.738	13.741	13.715	13.807	13.771	13.712
5/28/17 12:00	13.780	13.769	13.730	13.732	13.828	13.769	13.729
5/28/17 14:00	13.775	13.729	13.749	13.713	13.793	13.770	13.714
5/28/17 16:00	13.764	13.730	13.734	13.714	13.799	13.755	13.711
5/28/17 18:00	13.757	13.752	13.719	13.721	13.810	13.751	13.717
5/28/17 20:00	13.748	13.709	13.730	13.698	13.779	13.751	13.699
5/28/17 22:00	13.745	13.725	13.730	13.711	13.792	13.751	13.708
5/29/17 0:00	13.752	13.755	13.724	13.725	13.816	13.755	13.722
5/29/17 2:00	13.756	13.724	13.746	13.713	13.791	13.764	13.714
5/29/17 4:00	13.769	13.752	13.758	13.737	13.818	13.777	13.735

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/29/17 6:00	13.773	13.776	13.745	13.746	13.837	13.776	13.743
5/29/17 8:00	13.780	13.748	13.769	13.737	13.815	13.788	13.738
5/29/17 10:00	13.793	13.770	13.775	13.756	13.839	13.794	13.754
5/29/17 12:00	13.803	13.798	13.768	13.769	13.859	13.795	13.768
5/29/17 14:00	13.792	13.756	13.775	13.745	13.821	13.790	13.747
5/29/17 16:00	13.790	13.763	13.769	13.752	13.833	13.784	13.750
5/29/17 18:00	13.780	13.773	13.746	13.747	13.832	13.769	13.744
5/29/17 20:00	13.768	13.734	13.754	13.727	13.802	13.768	13.727
5/29/17 22:00	13.777	13.763	13.770	13.754	13.830	13.785	13.751
5/30/17 0:00	13.789	13.797	13.771	13.773	13.858	13.794	13.769
5/30/17 2:00	13.787	13.765	13.786	13.758	13.833	13.799	13.758
5/30/17 4:00	13.786	13.774	13.781	13.764	13.840	13.795	13.762
5/30/17 6:00	13.786	13.794	13.769	13.770	13.856	13.793	13.767
5/30/17 8:00	13.787	13.762	13.785	13.756	13.830	13.796	13.757
5/30/17 10:00	13.793	13.775	13.783	13.768	13.846	13.796	13.764
5/30/17 12:00	13.793	13.793	13.766	13.766	13.852	13.787	13.762
5/30/17 14:00	13.782	13.751	13.773	13.743	13.817	13.782	13.744
5/30/17 16:00	13.776	13.751	13.758	13.740	13.818	13.768	13.738
5/30/17 18:00	13.767	13.760	13.738	13.737	13.821	13.756	13.733
5/30/17 20:00	13.755	13.721	13.744	13.718	13.791	13.754	13.719
5/30/17 22:00	13.755	13.745	13.754	13.737	13.814	13.764	13.734
5/31/17 0:00	13.764	13.775	13.751	13.752	13.835	13.770	13.748
5/31/17 2:00	13.766	13.745	13.769	13.742	13.814	13.778	13.742
5/31/17 4:00	13.763	13.755	13.763	13.747	13.820	13.773	13.744
5/31/17 6:00	13.767	13.777	13.755	13.755	13.839	13.774	13.752
5/31/17 8:00	13.778	13.757	13.781	13.754	13.824	13.788	13.754
5/31/17 10:00	13.773	13.763	13.770	13.756	13.832	13.780	13.752
5/31/17 12:00	13.780	13.785	13.764	13.764	13.846	13.780	13.760
5/31/17 14:00	13.775	13.747	13.771	13.745	13.814	13.775	13.747
5/31/17 16:00	13.771	13.755	13.764	13.751	13.824	13.770	13.747
5/31/17 18:00	13.759	13.758	13.739	13.742	13.818	13.752	13.737
5/31/17 20:00	13.752	13.731	13.756	13.736	13.802	13.760	13.735
5/31/17 22:00	13.753	13.748	13.758	13.746	13.816	13.763	13.742
6/1/17 0:00	13.765	13.777	13.759	13.761	13.836	13.771	13.756
6/1/17 2:00	13.738	13.722	13.746	13.725	13.790	13.749	13.724
6/1/17 4:00	13.756	13.750	13.761	13.751	13.817	13.766	13.746
6/1/17 6:00	13.742	13.755	13.735	13.739	13.817	13.748	13.735
6/1/17 8:00	13.757	13.739	13.763	13.742	13.808	13.766	13.743
6/1/17 10:00	13.769	13.760	13.770	13.758	13.828	13.774	13.754
6/1/17 12:00	13.763	13.766	13.749	13.753	13.828	13.759	13.747
6/1/17 14:00	13.749	13.723	13.747	13.728	13.790	13.748	13.727
6/1/17 16:00	13.735	13.710	13.722	13.711	13.779	13.724	13.708
6/1/17 18:00	13.722	13.716	13.701	13.703	13.777	13.710	13.699
6/1/17 20:00	13.711	13.687	13.713	13.695	13.758	13.713	13.694
6/1/17 22:00	13.712	13.706	13.720	13.709	13.775	13.722	13.706
6/2/17 0:00	13.722	13.735	13.721	13.724	13.794	13.730	13.720

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/2/17 2:00	13.724	13.709	13.734	13.718	13.779	13.736	13.716
6/2/17 4:00	13.727	13.724	13.736	13.727	13.790	13.738	13.722
6/2/17 6:00	13.736	13.751	13.737	13.739	13.813	13.746	13.735
6/2/17 8:00	13.751	13.733	13.758	13.741	13.802	13.760	13.740
6/2/17 10:00	13.754	13.743	13.757	13.747	13.808	13.757	13.743
6/2/17 12:00	13.756	13.757	13.744	13.746	13.819	13.750	13.742
6/2/17 14:00	13.745	13.719	13.745	13.728	13.787	13.744	13.727
6/2/17 16:00	13.739	13.717	13.729	13.723	13.786	13.731	13.718
6/2/17 18:00	13.726	13.721	13.709	13.714	13.783	13.716	13.708
6/2/17 20:00	13.718	13.697	13.722	13.708	13.764	13.721	13.706
6/2/17 22:00	13.732	13.729	13.744	13.736	13.798	13.744	13.731
6/3/17 0:00	13.747	13.762	13.752	13.755	13.823	13.758	13.751
6/3/17 2:00	13.745	13.735	13.761	13.746	13.806	13.760	13.745
6/3/17 4:00	13.737	13.737	13.751	13.744	13.805	13.751	13.739
6/3/17 6:00	13.745	13.761	13.750	13.753	13.821	13.757	13.749
6/3/17 8:00	13.765	13.750	13.776	13.762	13.820	13.775	13.760
6/3/17 10:00	13.772	13.763	13.778	13.770	13.830	13.778	13.765
6/3/17 12:00	13.771	13.776	13.766	13.770	13.839	13.770	13.764
6/3/17 14:00	13.761	13.735	13.761	13.749	13.805	13.758	13.746
6/3/17 16:00	13.748	13.734	13.749	13.742	13.799	13.747	13.737
6/3/17 18:00	13.736	13.736	13.729	13.731	13.798	13.731	13.726
6/3/17 20:00	13.734	13.721	13.747	13.733	13.789	13.744	13.731
6/3/17 22:00	13.739	13.738	13.754	13.746	13.807	13.751	13.741
6/4/17 0:00	13.746	13.764	13.756	13.759	13.825	13.759	13.753
6/4/17 2:00	13.742	13.735	13.761	13.748	13.806	13.758	13.745
6/4/17 4:00	13.731	13.732	13.749	13.741	13.800	13.746	13.735
6/4/17 6:00	13.730	13.748	13.740	13.742	13.808	13.743	13.737
6/4/17 8:00	13.733	13.723	13.749	13.736	13.793	13.746	13.733
6/4/17 10:00	13.741	13.731	13.747	13.740	13.798	13.745	13.734
6/4/17 12:00	13.738	13.740	13.735	13.735	13.804	13.735	13.730
6/4/17 14:00	13.724	13.705	13.730	13.719	13.774	13.726	13.715
6/4/17 16:00	13.711	13.695	13.711	13.703	13.760	13.707	13.698
6/4/17 18:00	13.700	13.703	13.698	13.699	13.765	13.697	13.693
6/4/17 20:00	13.700	13.679	13.706	13.693	13.748	13.699	13.689
6/4/17 22:00	13.691	13.692	13.708	13.701	13.761	13.703	13.695
6/5/17 0:00	13.697	13.715	13.711	13.710	13.778	13.711	13.706
6/5/17 2:00	13.698	13.696	13.720	13.708	13.761	13.715	13.704
6/5/17 4:00	13.696	13.699	13.716	13.708	13.767	13.712	13.703
6/5/17 6:00	13.702	13.721	13.716	13.717	13.781	13.716	13.711
6/5/17 8:00	13.715	13.709	13.734	13.722	13.779	13.728	13.719
6/5/17 10:00	13.728	13.720	13.737	13.729	13.788	13.732	13.723
6/5/17 12:00	13.729	13.732	13.727	13.727	13.791	13.726	13.721
6/5/17 14:00	13.720	13.702	13.728	13.716	13.772	13.722	13.711
6/5/17 16:00	13.714	13.698	13.715	13.706	13.764	13.708	13.700
6/5/17 18:00	13.702	13.706	13.704	13.703	13.770	13.701	13.697
6/5/17 20:00	13.708	13.697	13.721	13.708	13.764	13.714	13.705

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/5/17 22:00	13.711	13.711	13.728	13.720	13.781	13.722	13.714
6/6/17 0:00	13.720	13.737	13.733	13.733	13.799	13.732	13.727
6/6/17 2:00	13.723	13.721	13.746	13.733	13.789	13.739	13.729
6/6/17 4:00	13.726	13.730	13.748	13.740	13.799	13.742	13.733
6/6/17 6:00	13.736	13.757	13.754	13.753	13.818	13.752	13.746
6/6/17 8:00	13.756	13.751	13.777	13.764	13.822	13.770	13.760
6/6/17 10:00	13.769	13.767	13.786	13.776	13.835	13.779	13.771
6/6/17 12:00	13.772	13.785	13.782	13.780	13.845	13.779	13.774
6/6/17 14:00	13.770	13.760	13.784	13.772	13.829	13.777	13.768
6/6/17 16:00	13.766	13.764	13.782	13.772	13.831	13.773	13.767
6/6/17 18:00	13.753	13.773	13.771	13.770	13.837	13.765	13.762
6/6/17 20:00	13.761	13.760	13.785	13.772	13.829	13.776	13.769
6/6/17 22:00	13.770	13.775	13.794	13.785	13.843	13.787	13.779
6/7/17 0:00	13.792	13.813	13.811	13.809	13.875	13.807	13.804
6/7/17 2:00	13.788	13.788	13.813	13.799	13.856	13.805	13.797
6/7/17 4:00	13.790	13.795	13.813	13.804	13.864	13.806	13.799
6/7/17 6:00	13.793	13.814	13.812	13.811	13.876	13.809	13.805
6/7/17 8:00	13.800	13.800	13.826	13.813	13.871	13.817	13.808
6/7/17 10:00	13.810	13.809	13.827	13.818	13.877	13.819	13.812
6/7/17 12:00	13.806	13.815	13.814	13.812	13.876	13.810	13.806
6/7/17 14:00	13.799	13.788	13.813	13.800	13.859	13.804	13.795
6/7/17 16:00	13.795	13.782	13.801	13.792	13.850	13.793	13.785
6/7/17 18:00	13.780	13.781	13.781	13.779	13.847	13.776	13.772
6/7/17 20:00	13.762	13.759	13.782	13.770	13.827	13.773	13.765
6/7/17 22:00	13.770	13.776	13.793	13.785	13.842	13.785	13.778
6/8/17 0:00	13.768	13.790	13.789	13.787	13.853	13.785	13.780
6/8/17 2:00	13.765	13.770	13.792	13.781	13.837	13.784	13.776
6/8/17 4:00	13.758	13.766	13.784	13.775	13.832	13.776	13.769
6/8/17 6:00	13.756	13.779	13.778	13.776	13.841	13.773	13.770
6/8/17 8:00	13.759	13.760	13.784	13.772	13.827	13.775	13.767
6/8/17 10:00	13.758	13.756	13.773	13.765	13.825	13.765	13.759
6/8/17 12:00	13.754	13.762	13.761	13.759	13.824	13.756	13.752
6/8/17 14:00	13.741	13.730	13.754	13.742	13.802	13.745	13.737
6/8/17 16:00	13.733	13.722	13.739	13.731	13.789	13.730	13.724
6/8/17 18:00	13.711	13.715	13.716	13.713	13.777	13.710	13.706
6/8/17 20:00	13.703	13.696	13.719	13.706	13.765	13.710	13.702
6/8/17 22:00	13.699	13.705	13.723	13.714	13.772	13.715	13.707
6/9/17 0:00	13.702	13.724	13.724	13.721	13.787	13.718	13.713
6/9/17 2:00	13.688	13.694	13.717	13.704	13.763	13.707	13.700
6/9/17 4:00	13.681	13.691	13.708	13.699	13.757	13.699	13.693
6/9/17 6:00	13.682	13.706	13.704	13.702	13.768	13.699	13.695
6/9/17 8:00	13.688	13.690	13.714	13.701	13.758	13.704	13.696
6/9/17 10:00	13.690	13.691	13.709	13.700	13.759	13.699	13.694
6/9/17 12:00	13.677	13.689	13.689	13.686	13.751	13.683	13.679
6/9/17 14:00	13.661	13.651	13.674	13.662	13.718	13.664	13.658
6/9/17 16:00	13.651	13.638	13.655	13.646	13.706	13.646	13.640

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/9/17 18:00	13.631	13.630	13.631	13.627	13.691	13.624	13.621
6/9/17 20:00	13.614	13.608	13.630	13.619	13.678	13.620	13.614
6/9/17 22:00	13.602	13.607	13.625	13.616	13.675	13.616	13.610
6/10/17 0:00	13.610	13.630	13.631	13.628	13.695	13.624	13.621
6/10/17 2:00	13.597	13.602	13.624	13.614	13.671	13.614	13.607
6/10/17 4:00	13.586	13.594	13.611	13.604	13.660	13.602	13.597
6/10/17 6:00	13.580	13.602	13.603	13.600	13.666	13.596	13.593
6/10/17 8:00	13.585	13.588	13.610	13.598	13.655	13.600	13.593
6/10/17 10:00	13.582	13.584	13.599	13.592	13.653	13.591	13.584
6/10/17 12:00	13.587	13.596	13.597	13.593	13.658	13.589	13.586
6/10/17 14:00	13.588	13.575	13.597	13.586	13.642	13.585	13.580
6/10/17 16:00	13.586	13.570	13.586	13.578	13.637	13.576	13.571
6/10/17 18:00	13.579	13.573	13.573	13.571	13.634	13.566	13.563
6/10/17 20:00	13.566	13.553	13.574	13.562	13.623	13.564	13.558
6/10/17 22:00	13.565	13.568	13.584	13.576	13.634	13.574	13.569
6/11/17 0:00	13.582	13.598	13.600	13.595	13.664	13.592	13.590
6/11/17 2:00	13.579	13.582	13.603	13.594	13.651	13.592	13.586
6/11/17 4:00	13.565	13.573	13.590	13.580	13.639	13.579	13.575
6/11/17 6:00	13.566	13.588	13.589	13.585	13.650	13.581	13.578
6/11/17 8:00	13.573	13.574	13.596	13.585	13.644	13.585	13.580
6/11/17 10:00	13.583	13.584	13.600	13.592	13.653	13.590	13.584
6/11/17 12:00	13.591	13.599	13.601	13.596	13.661	13.592	13.589
6/11/17 14:00	13.597	13.587	13.607	13.597	13.653	13.596	13.591
6/11/17 16:00	13.604	13.589	13.606	13.596	13.658	13.595	13.590
6/11/17 18:00	13.596	13.593	13.595	13.590	13.655	13.586	13.584
6/11/17 20:00	13.599	13.591	13.610	13.600	13.660	13.600	13.595
6/11/17 22:00	13.616	13.620	13.637	13.628	13.687	13.625	13.622
6/12/17 0:00	13.625	13.643	13.645	13.640	13.704	13.636	13.634
6/12/17 2:00	13.631	13.637	13.656	13.646	13.704	13.645	13.640
6/12/17 4:00	13.629	13.639	13.655	13.647	13.704	13.644	13.640
6/12/17 6:00	13.629	13.651	13.653	13.650	13.716	13.645	13.643
6/12/17 8:00	13.647	13.648	13.668	13.657	13.716	13.657	13.652
6/12/17 10:00	13.656	13.656	13.672	13.664	13.726	13.662	13.658
6/12/17 12:00	13.655	13.665	13.667	13.662	13.727	13.658	13.656
6/12/17 14:00	13.636	13.630	13.649	13.638	13.697	13.638	13.633
6/12/17 16:00	13.632	13.617	13.635	13.625	13.685	13.623	13.619
6/12/17 18:00	13.621	13.613	13.616	13.612	13.675	13.607	13.605
6/12/17 20:00	13.604	13.595	13.614	13.604	13.666	13.603	13.598
6/12/17 22:00	13.607	13.611	13.627	13.619	13.678	13.616	13.612
6/13/17 0:00	13.614	13.632	13.635	13.630	13.694	13.625	13.624
6/13/17 2:00	13.622	13.628	13.647	13.636	13.697	13.636	13.632
6/13/17 4:00	13.610	13.621	13.637	13.628	13.686	13.626	13.622
6/13/17 6:00	13.616	13.635	13.639	13.633	13.700	13.629	13.628
6/13/17 8:00	13.615	13.619	13.637	13.627	13.687	13.627	13.622
6/13/17 10:00	13.611	13.611	13.626	13.618	13.676	13.616	13.612
6/13/17 12:00	13.599	13.609	13.610	13.606	13.671	13.601	13.599

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/13/17 14:00	13.593	13.588	13.605	13.595	13.654	13.593	13.589
6/13/17 16:00	13.583	13.570	13.585	13.577	13.636	13.573	13.569
6/13/17 18:00	13.560	13.560	13.561	13.557	13.622	13.552	13.551
6/13/17 20:00	13.562	13.570	13.588	13.579	13.636	13.575	13.573
6/13/17 22:00	13.583	13.591	13.607	13.599	13.659	13.596	13.593
6/14/17 0:00	13.615	13.638	13.639	13.636	13.699	13.630	13.629
6/14/17 2:00	13.611	13.621	13.640	13.630	13.690	13.628	13.625
6/14/17 4:00	13.609	13.620	13.637	13.629	13.687	13.625	13.622
6/14/17 6:00	13.640	13.664	13.666	13.662	13.724	13.656	13.655
6/14/17 8:00	13.677	13.683	13.700	13.691	13.751	13.690	13.686
6/14/17 10:00	13.691	13.695	13.711	13.703	13.761	13.700	13.697
6/14/17 12:00	13.703	13.713	13.716	13.711	13.777	13.706	13.705
6/14/17 14:00	13.700	13.699	13.717	13.708	13.765	13.706	13.701
6/14/17 16:00	13.703	13.695	13.711	13.703	13.764	13.700	13.697
6/14/17 18:00	13.697	13.698	13.700	13.695	13.760	13.690	13.689
6/14/17 20:00	13.694	13.689	13.705	13.697	13.755	13.694	13.692
6/14/17 22:00	13.685	13.696	13.711	13.703	13.763	13.700	13.696
6/15/17 0:00	13.690	13.713	13.715	13.710	13.774	13.706	13.704
6/15/17 2:00	13.684	13.697	13.716	13.705	13.766	13.704	13.699
6/15/17 4:00	13.678	13.693	13.708	13.701	13.759	13.697	13.694
6/15/17 6:00	13.694	13.720	13.723	13.719	13.781	13.713	13.712
6/15/17 8:00	13.713	13.722	13.739	13.730	13.789	13.727	13.724
6/15/17 10:00	13.716	13.717	13.733	13.726	13.784	13.722	13.719
6/15/17 12:00	13.709	13.716	13.718	13.714	13.779	13.708	13.707
6/15/17 14:00	13.696	13.687	13.704	13.694	13.754	13.693	13.689
6/15/17 16:00	13.673	13.670	13.685	13.678	13.739	13.673	13.671
6/15/17 18:00	13.667	13.669	13.671	13.668	13.731	13.661	13.660
6/15/17 20:00	13.652	13.654	13.671	13.662	13.718	13.659	13.656
6/15/17 22:00	13.664	13.673	13.689	13.681	13.741	13.678	13.675
6/16/17 0:00	13.677	13.705	13.707	13.703	13.765	13.697	13.695
6/16/17 2:00	13.663	13.676	13.694	13.685	13.745	13.683	13.679
6/16/17 4:00	13.671	13.684	13.701	13.693	13.752	13.690	13.686
6/16/17 6:00	13.668	13.693	13.696	13.691	13.754	13.686	13.685
6/16/17 8:00	13.661	13.672	13.689	13.679	13.739	13.678	13.674
6/16/17 10:00	13.660	13.663	13.678	13.671	13.728	13.666	13.663
6/16/17 12:00	13.648	13.655	13.659	13.654	13.719	13.648	13.647
6/16/17 14:00	13.629	13.622	13.639	13.630	13.689	13.627	13.624
6/16/17 16:00	13.615	13.607	13.622	13.616	13.672	13.611	13.608
6/16/17 18:00	13.596	13.596	13.597	13.593	13.657	13.587	13.586
6/16/17 20:00	13.573	13.564	13.581	13.572	13.630	13.569	13.566
6/16/17 22:00	13.556	13.565	13.580	13.573	13.633	13.569	13.566
6/17/17 0:00	13.581	13.604	13.607	13.603	13.665	13.597	13.596
6/17/17 2:00	13.585	13.597	13.613	13.603	13.666	13.602	13.598
6/17/17 4:00	13.582	13.597	13.612	13.605	13.663	13.601	13.598
6/17/17 6:00	13.591	13.614	13.619	13.613	13.677	13.608	13.607
6/17/17 8:00	13.600	13.610	13.627	13.618	13.678	13.616	13.613

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/17/17 10:00	13.615	13.623	13.638	13.631	13.688	13.626	13.624
6/17/17 12:00	13.625	13.633	13.637	13.632	13.697	13.626	13.626
6/17/17 14:00	13.622	13.618	13.634	13.626	13.686	13.622	13.621
6/17/17 16:00	13.622	13.616	13.631	13.624	13.681	13.619	13.618
6/17/17 18:00	13.643	13.647	13.650	13.646	13.711	13.640	13.641
6/17/17 20:00	13.666	13.674	13.692	13.681	13.741	13.679	13.678
6/17/17 22:00	13.667	13.682	13.698	13.690	13.750	13.686	13.683
6/18/17 0:00	13.701	13.726	13.729	13.725	13.788	13.718	13.718
6/18/17 2:00	13.709	13.723	13.740	13.731	13.792	13.728	13.725
6/18/17 4:00	13.735	13.755	13.768	13.762	13.819	13.754	13.753
6/18/17 6:00	13.744	13.768	13.772	13.767	13.829	13.760	13.761
6/18/17 8:00	13.754	13.766	13.782	13.774	13.834	13.770	13.767
6/18/17 10:00	13.765	13.773	13.788	13.782	13.839	13.776	13.775
6/18/17 12:00	13.759	13.776	13.779	13.774	13.839	13.768	13.767
6/18/17 14:00	13.741	13.746	13.763	13.755	13.814	13.752	13.749
6/18/17 16:00	13.735	13.734	13.749	13.742	13.798	13.737	13.734
6/18/17 18:00	13.731	13.738	13.741	13.737	13.800	13.730	13.730
6/18/17 20:00	13.718	13.718	13.734	13.726	13.785	13.722	13.720
6/18/17 22:00	13.715	13.728	13.743	13.736	13.793	13.731	13.729
6/19/17 0:00	13.731	13.754	13.758	13.755	13.818	13.747	13.747
6/19/17 2:00	13.742	13.756	13.772	13.763	13.821	13.760	13.757
6/19/17 4:00	13.754	13.770	13.784	13.777	13.836	13.772	13.770
6/19/17 6:00	13.757	13.780	13.783	13.779	13.843	13.773	13.773
6/19/17 8:00	13.762	13.777	13.792	13.784	13.845	13.780	13.778
6/19/17 10:00	13.778	13.789	13.804	13.796	13.855	13.791	13.789
6/19/17 12:00	13.791	13.803	13.807	13.803	13.864	13.796	13.795
6/19/17 14:00	13.785	13.788	13.803	13.795	13.855	13.791	13.789
6/19/17 16:00	13.785	13.779	13.794	13.787	13.844	13.782	13.780
6/19/17 18:00	13.777	13.785	13.788	13.784	13.848	13.778	13.777
6/19/17 20:00	13.777	13.776	13.791	13.783	13.842	13.779	13.777
6/19/17 22:00	13.767	13.783	13.798	13.790	13.847	13.786	13.784
6/20/17 0:00	13.768	13.794	13.798	13.794	13.857	13.787	13.787
6/20/17 2:00	13.766	13.783	13.798	13.790	13.849	13.787	13.785
6/20/17 4:00	13.764	13.781	13.797	13.790	13.849	13.784	13.783
6/20/17 6:00	13.767	13.793	13.797	13.794	13.855	13.787	13.787
6/20/17 8:00	13.777	13.789	13.803	13.795	13.856	13.792	13.789
6/20/17 10:00	13.772	13.777	13.792	13.784	13.842	13.780	13.777
6/20/17 12:00	13.761	13.769	13.773	13.768	13.829	13.762	13.762
6/20/17 14:00	13.746	13.739	13.754	13.745	13.807	13.742	13.740
6/20/17 16:00	13.730	13.713	13.727	13.722	13.778	13.715	13.714
6/20/17 18:00	13.703	13.703	13.707	13.703	13.768	13.696	13.696
6/20/17 20:00	13.689	13.705	13.720	13.713	13.771	13.707	13.706
6/20/17 22:00	13.693	13.705	13.722	13.714	13.770	13.708	13.707
6/21/17 0:00	13.695	13.720	13.724	13.720	13.782	13.713	13.713
6/21/17 2:00	13.691	13.707	13.722	13.713	13.771	13.710	13.707
6/21/17 4:00	13.698	13.710	13.727	13.719	13.781	13.715	13.714

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/21/17 6:00	13.660	13.685	13.690	13.685	13.747	13.678	13.678
6/21/17 8:00	13.669	13.678	13.692	13.685	13.740	13.680	13.677
6/21/17 10:00	13.672	13.678	13.693	13.686	13.744	13.680	13.680
6/21/17 12:00	13.672	13.681	13.685	13.681	13.742	13.673	13.673
6/21/17 14:00	13.652	13.648	13.664	13.655	13.715	13.651	13.649
6/21/17 16:00	13.643	13.630	13.643	13.637	13.694	13.632	13.630
6/21/17 18:00	13.625	13.617	13.622	13.617	13.681	13.610	13.610
6/21/17 20:00	13.610	13.606	13.620	13.612	13.672	13.609	13.607
6/21/17 22:00	13.613	13.622	13.636	13.630	13.685	13.623	13.623
6/22/17 0:00	13.642	13.669	13.671	13.668	13.730	13.658	13.660
6/22/17 2:00	13.628	13.643	13.657	13.650	13.706	13.645	13.643
6/22/17 4:00	13.610	13.623	13.638	13.632	13.690	13.626	13.626
6/22/17 6:00	13.611	13.636	13.639	13.636	13.697	13.628	13.629
6/22/17 8:00	13.608	13.616	13.632	13.625	13.680	13.620	13.619
6/22/17 10:00	13.592	13.595	13.609	13.603	13.660	13.598	13.596
6/22/17 12:00	13.601	13.605	13.609	13.605	13.665	13.597	13.598
6/22/17 14:00	13.595	13.586	13.602	13.595	13.653	13.590	13.589
6/22/17 16:00	13.602	13.584	13.598	13.592	13.649	13.586	13.586
6/22/17 18:00	13.600	13.597	13.600	13.597	13.660	13.588	13.590
6/22/17 20:00	13.617	13.621	13.636	13.628	13.686	13.623	13.623
6/22/17 22:00	13.647	13.659	13.674	13.668	13.724	13.662	13.662
6/23/17 0:00	13.677	13.698	13.702	13.699	13.761	13.691	13.692
6/23/17 2:00	13.699	13.714	13.729	13.722	13.780	13.717	13.716
6/23/17 4:00	13.689	13.707	13.721	13.714	13.773	13.709	13.708
6/23/17 6:00	13.737	13.767	13.770	13.768	13.826	13.758	13.759
6/23/17 8:00	13.750	13.768	13.782	13.775	13.831	13.769	13.769
6/23/17 10:00	13.809	13.825	13.839	13.834	13.891	13.827	13.827
6/23/17 12:00	13.809	13.829	13.833	13.830	13.888	13.821	13.821
6/23/17 14:00	13.800	13.810	13.825	13.818	13.877	13.813	13.812
6/23/17 16:00	13.793	13.796	13.810	13.804	13.860	13.798	13.797
6/23/17 18:00	13.787	13.796	13.800	13.798	13.855	13.789	13.790
6/23/17 20:00	13.791	13.798	13.812	13.804	13.863	13.799	13.800
6/23/17 22:00	13.804	13.821	13.835	13.829	13.885	13.823	13.823
6/24/17 0:00	13.830	13.856	13.860	13.857	13.920	13.848	13.850
6/24/17 2:00	13.836	13.856	13.870	13.862	13.921	13.857	13.856
6/24/17 4:00	13.839	13.858	13.872	13.866	13.922	13.860	13.859
6/24/17 6:00	13.841	13.869	13.874	13.870	13.932	13.862	13.863
6/24/17 8:00	13.861	13.876	13.891	13.884	13.941	13.878	13.877
6/24/17 10:00	13.882	13.891	13.906	13.900	13.957	13.893	13.892
6/24/17 12:00	13.887	13.905	13.909	13.905	13.967	13.898	13.899
6/24/17 14:00	13.882	13.890	13.904	13.897	13.953	13.892	13.891
6/24/17 16:00	13.865	13.874	13.889	13.884	13.940	13.876	13.876
6/24/17 18:00	13.848	13.870	13.873	13.870	13.929	13.861	13.863
6/24/17 20:00	13.846	13.860	13.875	13.867	13.927	13.862	13.861
6/24/17 22:00	13.854	13.868	13.884	13.877	13.933	13.871	13.871
6/25/17 0:00	13.872	13.897	13.903	13.899	13.962	13.892	13.893

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/25/17 2:00	13.870	13.890	13.905	13.897	13.956	13.892	13.891
6/25/17 4:00	13.870	13.886	13.903	13.895	13.952	13.890	13.890
6/25/17 6:00	13.894	13.922	13.926	13.921	13.983	13.914	13.915
6/25/17 8:00	13.905	13.922	13.936	13.929	13.986	13.924	13.923
6/25/17 10:00	13.907	13.922	13.936	13.931	13.989	13.924	13.924
6/25/17 12:00	13.915	13.940	13.943	13.941	14.001	13.932	13.933
6/25/17 14:00	13.912	13.928	13.942	13.934	13.990	13.929	13.929
6/25/17 16:00	13.894	13.903	13.918	13.913	13.968	13.906	13.905
6/25/17 18:00	13.875	13.895	13.899	13.895	13.955	13.888	13.888
6/25/17 20:00	13.864	13.874	13.889	13.882	13.941	13.876	13.876
6/25/17 22:00	13.860	13.878	13.893	13.888	13.942	13.880	13.880
6/26/17 0:00	13.865	13.893	13.896	13.893	13.952	13.885	13.886
6/26/17 2:00	13.857	13.877	13.890	13.885	13.942	13.879	13.878
6/26/17 4:00	13.850	13.870	13.884	13.879	13.932	13.871	13.871
6/26/17 6:00	13.844	13.871	13.875	13.873	13.933	13.864	13.865
6/26/17 8:00	13.850	13.867	13.882	13.875	13.931	13.868	13.868
6/26/17 10:00	13.841	13.853	13.868	13.861	13.920	13.856	13.856
6/26/17 12:00	13.831	13.845	13.850	13.846	13.906	13.838	13.840
6/26/17 14:00	13.814	13.815	13.830	13.823	13.878	13.817	13.817
6/26/17 16:00	13.798	13.799	13.813	13.808	13.864	13.801	13.801
6/26/17 18:00	13.792	13.801	13.805	13.802	13.861	13.793	13.795
6/26/17 20:00	13.787	13.798	13.812	13.805	13.864	13.799	13.799
6/26/17 22:00	13.788	13.804	13.818	13.813	13.868	13.806	13.806
6/27/17 0:00	13.803	13.829	13.833	13.830	13.887	13.821	13.823
6/27/17 2:00	13.797	13.816	13.830	13.824	13.882	13.818	13.818
6/27/17 4:00	13.780	13.797	13.811	13.807	13.860	13.800	13.799
6/27/17 6:00	13.769	13.797	13.801	13.798	13.859	13.789	13.791
6/27/17 8:00	13.754	13.773	13.786	13.781	13.836	13.774	13.774
6/27/17 10:00	13.740	13.754	13.768	13.764	13.819	13.755	13.755
6/27/17 12:00	13.719	13.736	13.742	13.738	13.797	13.729	13.730
6/27/17 14:00	13.695	13.695	13.710	13.703	13.759	13.697	13.697
6/27/17 16:00	13.663	13.655	13.669	13.663	13.720	13.656	13.656
6/27/17 18:00	13.639	13.632	13.636	13.633	13.692	13.624	13.627
6/27/17 20:00	13.604	13.609	13.624	13.617	13.677	13.611	13.611
6/27/17 22:00	13.601	13.612	13.626	13.622	13.676	13.614	13.614
6/28/17 0:00	13.623	13.641	13.645	13.643	13.701	13.634	13.635
6/28/17 2:00	13.640	13.660	13.672	13.667	13.725	13.660	13.660
6/28/17 4:00	13.632	13.650	13.664	13.659	13.711	13.650	13.650
6/28/17 6:00	13.603	13.628	13.632	13.629	13.690	13.620	13.622
6/28/17 8:00	13.624	13.638	13.651	13.646	13.702	13.639	13.638
6/28/17 10:00	13.635	13.642	13.657	13.651	13.704	13.644	13.645
6/28/17 12:00	13.633	13.645	13.649	13.648	13.707	13.638	13.640
6/28/17 14:00	13.634	13.634	13.646	13.640	13.696	13.634	13.634
6/28/17 16:00	13.638	13.625	13.640	13.634	13.691	13.626	13.627
6/28/17 18:00	13.631	13.622	13.626	13.624	13.682	13.614	13.616
6/28/17 20:00	13.614	13.622	13.635	13.628	13.688	13.622	13.623

Table S10.1 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/28/17 22:00	13.616	13.629	13.643	13.638	13.698	13.630	13.631
6/29/17 0:00	13.620	13.643	13.647	13.644	13.702	13.636	13.637
6/29/17 2:00	13.627	13.642	13.656	13.650	13.707	13.643	13.644
6/29/17 4:00	13.616	13.632	13.646	13.641	13.695	13.634	13.634
6/29/17 6:00	13.686	13.715	13.719	13.718	13.776	13.707	13.709
6/29/17 8:00	13.643	13.662	13.676	13.670	13.727	13.663	13.664
6/29/17 10:00	13.662	13.673	13.688	13.683	13.737	13.674	13.676
6/29/17 12:00	13.676	13.687	13.691	13.689	13.750	13.679	13.683
6/29/17 14:00	13.677	13.679	13.694	13.688	13.743	13.681	13.682
6/29/17 16:00	13.678	13.676	13.689	13.686	13.742	13.678	13.678
6/29/17 18:00	13.677	13.677	13.679	13.677	13.737	13.668	13.671
6/29/17 20:00	13.666	13.676	13.690	13.684	13.739	13.677	13.678
6/29/17 22:00	13.712	13.726	13.740	13.735	13.792	13.727	13.729
6/30/17 0:00	13.705	13.732	13.734	13.734	13.791	13.721	13.727
6/30/17 2:00	13.714	13.726	13.743	13.736	13.794	13.729	13.732
6/30/17 4:00	13.716	13.733	13.747	13.744	13.797	13.734	13.736
6/30/17 6:00	13.745	13.772	13.774	13.773	13.831	13.761	13.767
6/30/17 8:00	13.779	13.796	13.810	13.806	13.860	13.798	13.800
6/30/17 10:00	13.765	13.779	13.793	13.790	13.844	13.781	13.783
6/30/17 12:00	13.791	13.803	13.808	13.806	13.870	13.796	13.802
6/30/17 14:00	13.792	13.805	13.821	13.815	13.869	13.807	13.810
6/30/17 16:00	13.782	13.785	13.804	13.796	13.855	13.791	13.795
6/30/17 18:00	13.778	13.787	13.790	13.790	13.850	13.779	13.784
6/30/17 20:00	13.779	13.782	13.798	13.793	13.846	13.786	13.787
6/30/17 22:00	13.774	13.789	13.804	13.800	13.856	13.792	13.794

Supplement 11:

Automatically Recorded Water Level Data

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
2/7/17 16:00	41.878	42.504	2/11/17 12:00	42.058	42.544
2/7/17 18:00	42.027	42.551	2/11/17 14:00	41.985	42.511
2/7/17 20:00	41.992	42.555	2/11/17 16:00	41.913	42.537
2/7/17 22:00	41.899	42.572	2/11/17 18:00	42.107	42.593
2/8/17 0:00	42.074	42.593	2/11/17 20:00	42.104	42.645
2/8/17 2:00	41.997	42.558	2/11/17 22:00	42.042	42.677
2/8/17 4:00	41.899	42.565	2/12/17 0:00	42.226	42.731
2/8/17 6:00	42.116	42.652	2/12/17 2:00	42.212	42.771
2/8/17 8:00	42.102	42.677	2/12/17 4:00	42.135	42.783
2/8/17 10:00	42.044	42.724	2/12/17 6:00	42.296	42.802
2/8/17 12:00	42.205	42.745	2/12/17 8:00	42.259	42.806
2/8/17 14:00	42.107	42.694	2/12/17 10:00	42.161	42.813
2/8/17 16:00	42.016	42.684	2/12/17 12:00	42.301	42.806
2/8/17 18:00	42.149	42.677	2/12/17 14:00	42.214	42.745
2/8/17 20:00	42.112	42.684	2/12/17 16:00	42.084	42.708
2/8/17 22:00	42.042	42.703	2/12/17 18:00	42.205	42.687
2/9/17 0:00	42.161	42.687	2/12/17 20:00	42.137	42.661
2/9/17 2:00	42.112	42.687	2/12/17 22:00	42.025	42.649
2/9/17 4:00	42.000	42.666	2/13/17 0:00	42.165	42.633
2/9/17 6:00	42.142	42.661	2/13/17 2:00	42.086	42.593
2/9/17 8:00	42.086	42.645	2/13/17 4:00	41.974	42.581
2/9/17 10:00	41.981	42.640	2/13/17 6:00	42.116	42.579
2/9/17 12:00	42.086	42.600	2/13/17 8:00	42.067	42.569
2/9/17 14:00	41.981	42.518	2/13/17 10:00	41.943	42.551
2/9/17 16:00	41.861	42.485	2/13/17 12:00	42.086	42.532
2/9/17 18:00	41.995	42.478	2/13/17 14:00	42.004	42.487
2/9/17 20:00	41.915	42.445	2/13/17 16:00	41.878	42.471
2/9/17 22:00	41.810	42.438	2/13/17 18:00	42.046	42.492
2/10/17 0:00	41.932	42.403	2/13/17 20:00	42.011	42.487
2/10/17 2:00	41.857	42.380	2/13/17 22:00	41.903	42.487
2/10/17 4:00	41.756	42.370	2/14/17 0:00	42.060	42.501
2/10/17 6:00	41.913	42.377	2/14/17 2:00	42.016	42.497
2/10/17 8:00	41.894	42.391	2/14/17 4:00	41.920	42.511
2/10/17 10:00	41.803	42.433	2/14/17 6:00	42.086	42.539
2/10/17 12:00	41.962	42.445	2/14/17 8:00	42.056	42.555
2/10/17 14:00	41.892	42.408	2/14/17 10:00	41.934	42.539
2/10/17 16:00	41.798	42.415	2/14/17 12:00	42.088	42.532
2/10/17 18:00	41.962	42.436	2/14/17 14:00	42.004	42.487
2/10/17 20:00	41.925	42.448	2/14/17 16:00	41.904	42.492
2/10/17 22:00	41.831	42.452	2/14/17 18:00	42.074	42.511
2/11/17 0:00	41.974	42.445	2/14/17 20:00	42.042	42.527
2/11/17 2:00	41.927	42.443	2/14/17 22:00	41.964	42.558
2/11/17 4:00	41.838	42.462	2/15/17 0:00	42.114	42.562
2/11/17 6:00	42.023	42.501	2/15/17 2:00	42.067	42.548
2/11/17 8:00	42.000	42.532	2/15/17 4:00	41.948	42.537
2/11/17 10:00	41.906	42.544	2/15/17 6:00	42.109	42.548
2/15/17 8:00	42.067	42.546	2/19/17 4:00	41.929	42.527

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
2/15/17 10:00	41.957	42.541	2/19/17 6:00	42.079	42.534
2/15/17 12:00	42.079	42.523	2/19/17 8:00	42.037	42.539
2/15/17 14:00	41.983	42.459	2/19/17 10:00	41.929	42.530
2/15/17 16:00	41.852	42.426	2/19/17 12:00	42.070	42.523
2/15/17 18:00	41.997	42.419	2/19/17 14:00	41.967	42.462
2/15/17 20:00	41.948	42.417	2/19/17 16:00	41.857	42.448
2/15/17 22:00	41.854	42.426	2/19/17 18:00	42.030	42.473
2/16/17 0:00	42.009	42.429	2/19/17 20:00	42.000	42.485
2/16/17 2:00	41.943	42.412	2/19/17 22:00	41.901	42.501
2/16/17 4:00	41.831	42.408	2/20/17 0:00	42.014	42.464
2/16/17 6:00	41.992	42.410	2/20/17 2:00	41.957	42.448
2/16/17 8:00	41.936	42.408	2/20/17 4:00	41.859	42.457
2/16/17 10:00	41.833	42.415	2/20/17 6:00	42.027	42.471
2/16/17 12:00	41.985	42.412	2/20/17 8:00	42.004	42.499
2/16/17 14:00	41.901	42.368	2/20/17 10:00	41.922	42.530
2/16/17 16:00	41.806	42.370	2/20/17 12:00	42.086	42.546
2/16/17 18:00	41.957	42.380	2/20/17 14:00	42.030	42.541
2/16/17 20:00	41.908	42.377	2/20/17 16:00	41.983	42.572
2/16/17 22:00	41.813	42.387	2/20/17 18:00	42.147	42.619
2/17/17 0:00	41.964	42.387	2/20/17 20:00	42.107	42.623
2/17/17 2:00	41.913	42.387	2/20/17 22:00	42.007	42.616
2/17/17 4:00	41.815	42.389	2/21/17 0:00	42.147	42.612
2/17/17 6:00	41.981	42.408	2/21/17 2:00	42.076	42.588
2/17/17 8:00	41.950	42.415	2/21/17 4:00	41.990	42.600
2/17/17 10:00	41.852	42.438	2/21/17 6:00	42.133	42.600
2/17/17 12:00	42.000	42.438	2/21/17 8:00	42.081	42.593
2/17/17 14:00	41.924	42.403	2/21/17 10:00	41.985	42.593
2/17/17 16:00	41.836	42.412	2/21/17 12:00	42.095	42.560
2/17/17 18:00	42.004	42.441	2/21/17 14:00	41.995	42.492
2/17/17 20:00	41.976	42.462	2/21/17 16:00	41.880	42.473
2/17/17 22:00	41.913	42.506	2/21/17 18:00	42.025	42.473
2/18/17 0:00	42.074	42.520	2/21/17 20:00	41.967	42.471
2/18/17 2:00	42.025	42.509	2/21/17 22:00	41.876	42.471
2/18/17 4:00	41.918	42.509	2/22/17 0:00	41.983	42.450
2/18/17 6:00	42.077	42.527	2/22/17 2:00	41.946	42.433
2/18/17 8:00	42.030	42.530	2/22/17 4:00	41.827	42.419
2/18/17 10:00	41.950	42.555	2/22/17 6:00	42.002	42.443
2/18/17 12:00	42.081	42.534	2/22/17 8:00	41.964	42.459
2/18/17 14:00	41.983	42.478	2/22/17 10:00	41.878	42.487
2/18/17 16:00	41.892	42.476	2/22/17 12:00	42.028	42.490
2/18/17 18:00	42.042	42.492	2/22/17 14:00	41.946	42.450
2/18/17 20:00	41.990	42.485	2/22/17 16:00	41.855	42.450
2/18/17 22:00	41.908	42.504	2/22/17 18:00	42.007	42.462
2/19/17 0:00	42.067	42.520	2/22/17 20:00	41.964	42.469
2/19/17 2:00	42.025	42.525	2/22/17 22:00	41.873	42.480
2/23/17 0:00	42.021	42.478	2/26/17 20:00	41.941	42.537
2/23/17 2:00	41.964	42.464	2/26/17 22:00	41.850	42.541

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
2/23/17 4:00	41.866	42.464	2/27/17 0:00	41.981	42.525
2/23/17 6:00	41.999	42.464	2/27/17 2:00	41.922	42.511
2/23/17 8:00	41.950	42.441	2/27/17 4:00	41.806	42.490
2/23/17 10:00	41.838	42.438	2/27/17 6:00	41.934	42.501
2/23/17 12:00	41.969	42.417	2/27/17 8:00	41.897	42.499
2/23/17 14:00	41.885	42.380	2/27/17 10:00	41.784	42.487
2/23/17 16:00	41.810	42.405	2/27/17 12:00	41.887	42.445
2/23/17 18:00	41.976	42.438	2/27/17 14:00	41.787	42.380
2/23/17 20:00	42.000	42.506	2/27/17 16:00	41.684	42.373
2/23/17 22:00	41.908	42.523	2/27/17 18:00	41.841	42.387
2/24/17 0:00	42.070	42.541	2/27/17 20:00	41.777	42.384
2/24/17 2:00	42.018	42.534	2/27/17 22:00	41.682	42.384
2/24/17 4:00	41.934	42.551	2/28/17 0:00	41.834	42.389
2/24/17 6:00	42.100	42.567	2/28/17 2:00	41.784	42.396
2/24/17 8:00	42.070	42.593	2/28/17 4:00	41.682	42.403
2/24/17 10:00	41.983	42.630	2/28/17 6:00	41.864	42.436
2/24/17 12:00	42.144	42.656	2/28/17 8:00	41.859	42.483
2/24/17 14:00	42.140	42.640	2/28/17 10:00	41.770	42.497
2/24/17 16:00	42.030	42.661	2/28/17 12:00	41.890	42.478
2/24/17 18:00	42.189	42.684	2/28/17 14:00	41.822	42.443
2/24/17 20:00	42.156	42.694	2/28/17 16:00	41.740	42.466
2/24/17 22:00	42.053	42.694	2/28/17 18:00	41.894	42.501
2/25/17 0:00	42.189	42.684	2/28/17 20:00	41.899	42.555
2/25/17 2:00	42.130	42.668	2/28/17 22:00	41.824	42.579
2/25/17 4:00	42.000	42.635	3/1/17 0:00	41.992	42.612
2/25/17 6:00	42.135	42.630	3/1/17 2:00	41.948	42.614
2/25/17 8:00	42.088	42.619	3/1/17 4:00	41.855	42.619
2/25/17 10:00	41.950	42.600	3/1/17 6:00	42.018	42.654
2/25/17 12:00	42.065	42.555	3/1/17 8:00	41.981	42.663
2/25/17 14:00	41.948	42.487	3/1/17 10:00	41.922	42.708
2/25/17 16:00	41.848	42.473	3/1/17 12:00	42.070	42.720
2/25/17 18:00	41.981	42.478	3/1/17 14:00	41.981	42.673
2/25/17 20:00	41.932	42.483	3/1/17 16:00	41.885	42.670
2/25/17 22:00	41.838	42.478	3/1/17 18:00	42.025	42.673
2/26/17 0:00	42.011	42.518	3/1/17 20:00	41.971	42.663
2/26/17 2:00	41.925	42.485	3/1/17 22:00	41.880	42.675
2/26/17 4:00	41.831	42.494	3/2/17 0:00	42.004	42.670
2/26/17 6:00	41.985	42.509	3/2/17 2:00	41.957	42.659
2/26/17 8:00	41.964	42.525	3/2/17 4:00	41.859	42.654
2/26/17 10:00	41.869	42.541	3/2/17 6:00	42.016	42.673
2/26/17 12:00	42.000	42.534	3/2/17 8:00	41.981	42.691
2/26/17 14:00	41.913	42.487	3/2/17 10:00	41.908	42.720
2/26/17 16:00	41.822	42.494	3/2/17 12:00	42.051	42.715
2/26/17 18:00	41.992	42.527	3/2/17 14:00	41.978	42.677
3/2/17 16:00	41.864	42.659	3/6/17 12:00	41.644	42.319
3/2/17 18:00	42.004	42.656	3/6/17 14:00	41.607	42.314
3/2/17 20:00	41.960	42.659	3/6/17 16:00	41.609	42.438

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/2/17 22:00	41.859	42.659	3/10/17 12:00	42.936	42.671
3/3/17 0:00	42.016	42.673	3/10/17 14:00	42.826	42.577
3/3/17 2:00	41.950	42.659	3/10/17 16:00	42.821	42.512
3/3/17 4:00	41.820	42.616	3/10/17 18:00	42.737	42.484
3/3/17 6:00	41.957	42.607	3/10/17 20:00	42.732	42.477
3/3/17 8:00	41.894	42.584	3/10/17 22:00	42.798	42.502
3/3/17 10:00	41.768	42.558	3/11/17 0:00	42.725	42.493
3/3/17 12:00	41.857	42.509	3/11/17 2:00	42.716	42.477
3/3/17 14:00	41.761	42.452	3/11/17 4:00	42.767	42.488
3/3/17 16:00	41.661	42.429	3/11/17 6:00	42.697	42.474
3/3/17 18:00	41.789	42.441	3/11/17 8:00	42.723	42.498
3/3/17 20:00	41.763	42.448	3/11/17 10:00	42.805	42.540
3/3/17 22:00	41.682	42.473	3/11/17 12:00	42.744	42.549
3/4/17 0:00	41.838	42.485	3/11/17 14:00	42.728	42.547
3/4/17 2:00	41.782	42.485	3/11/17 16:00	42.751	42.512
3/4/17 4:00	41.675	42.473	3/11/17 18:00	42.704	42.500
3/4/17 6:00	41.824	42.480	3/11/17 20:00	42.718	42.502
3/4/17 8:00	41.773	42.478	3/11/17 22:00	42.770	42.512
3/4/17 10:00	41.661	42.466	3/12/17 0:00	42.683	42.481
3/4/17 12:00	41.782	42.448	3/12/17 2:00	42.676	42.456
3/4/17 14:00	41.682	42.382	3/12/17 4:00	42.702	42.432
3/4/17 16:00	41.583	42.373	3/12/17 6:00	42.608	42.387
3/4/17 18:00	41.738	42.387	3/12/17 8:00	42.606	42.376
3/4/17 20:00	41.698	42.405	3/12/17 10:00	42.606	42.343
3/4/17 22:00	41.616	42.419	3/12/17 12:00	42.520	42.294
3/5/17 0:00	41.756	42.422	3/12/17 14:00	42.501	42.261
3/5/17 2:00	41.703	42.419	3/12/17 16:00	42.536	42.240
3/5/17 4:00	41.581	42.398	3/12/17 18:00	42.480	42.244
3/5/17 6:00	41.749	42.415	3/12/17 20:00	42.562	42.327
3/5/17 8:00	41.705	42.422	3/12/17 22:00	42.650	42.373
3/5/17 10:00	41.604	42.429	3/13/17 0:00	42.622	42.418
3/5/17 12:00	41.728	42.412	3/13/17 2:00	42.664	42.456
3/5/17 14:00	41.630	42.351	3/13/17 4:00	42.746	42.507
3/5/17 16:00	41.527	42.330	3/13/17 6:00	42.702	42.514
3/5/17 18:00	41.668	42.337	3/13/17 8:00	42.716	42.517
3/5/17 20:00	41.628	42.342	3/13/17 10:00	42.770	42.531
3/5/17 22:00	41.520	42.349	3/13/17 12:00	42.683	42.505
3/6/17 0:00	41.658	42.344	3/13/17 14:00	42.664	42.465
3/6/17 2:00	41.607	42.330	3/13/17 16:00	42.692	42.434
3/6/17 4:00	41.495	42.316	3/13/17 18:00	42.620	42.423
3/6/17 6:00	41.644	42.309	3/13/17 20:00	42.641	42.425
3/6/17 8:00	41.595	42.307	3/13/17 22:00	42.697	42.441
3/6/17 10:00	41.488	42.321	3/14/17 0:00	42.627	42.427
3/14/17 2:00	42.634	42.430	3/17/17 22:00	42.725	42.514
3/14/17 4:00	42.674	42.423	3/18/17 0:00	42.664	42.509
3/14/17 6:00	42.594	42.404	3/18/17 2:00	42.695	42.528
3/14/17 8:00	42.625	42.425	3/18/17 4:00	42.723	42.517

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/14/17 10:00	42.697	42.453	3/18/17 6:00	42.662	42.507
3/14/17 12:00	42.639	42.446	3/18/17 8:00	42.671	42.514
3/14/17 14:00	42.643	42.444	3/18/17 10:00	42.723	42.517
3/14/17 16:00	42.681	42.430	3/18/17 12:00	42.639	42.488
3/14/17 18:00	42.629	42.437	3/18/17 14:00	42.608	42.434
3/14/17 20:00	42.650	42.453	3/18/17 16:00	42.611	42.385
3/14/17 22:00	42.711	42.472	3/18/17 18:00	42.522	42.355
3/15/17 0:00	42.643	42.467	3/18/17 20:00	42.538	42.352
3/15/17 2:00	42.653	42.463	3/18/17 22:00	42.597	42.371
3/15/17 4:00	42.697	42.451	3/19/17 0:00	42.527	42.355
3/15/17 6:00	42.613	42.427	3/19/17 2:00	42.527	42.343
3/15/17 8:00	42.611	42.418	3/19/17 4:00	42.545	42.322
3/15/17 10:00	42.655	42.406	3/19/17 6:00	42.470	42.291
3/15/17 12:00	42.552	42.366	3/19/17 8:00	42.489	42.305
3/15/17 14:00	42.550	42.352	3/19/17 10:00	42.543	42.313
3/15/17 16:00	42.573	42.315	3/19/17 12:00	42.484	42.305
3/15/17 18:00	42.482	42.289	3/19/17 14:00	42.482	42.301
3/15/17 20:00	42.515	42.313	3/19/17 16:00	42.508	42.275
3/15/17 22:00	42.580	42.327	3/19/17 18:00	42.445	42.266
3/16/17 0:00	42.520	42.331	3/19/17 20:00	42.468	42.289
3/16/17 2:00	42.513	42.319	3/19/17 22:00	42.557	42.336
3/16/17 4:00	42.562	42.305	3/20/17 0:00	42.503	42.341
3/16/17 6:00	42.482	42.287	3/20/17 2:00	42.520	42.345
3/16/17 8:00	42.489	42.291	3/20/17 4:00	42.583	42.359
3/16/17 10:00	42.555	42.298	3/20/17 6:00	42.529	42.376
3/16/17 12:00	42.466	42.284	3/20/17 8:00	42.564	42.401
3/16/17 14:00	42.454	42.256	3/20/17 10:00	42.655	42.453
3/16/17 16:00	42.491	42.233	3/20/17 12:00	42.587	42.444
3/16/17 18:00	42.428	42.228	3/20/17 14:00	42.576	42.422
3/16/17 20:00	42.459	42.256	3/20/17 16:00	42.613	42.406
3/16/17 22:00	42.527	42.277	3/20/17 18:00	42.555	42.399
3/17/17 0:00	42.501	42.317	3/20/17 20:00	42.583	42.425
3/17/17 2:00	42.548	42.364	3/20/17 22:00	42.657	42.460
3/17/17 4:00	42.643	42.413	3/21/17 0:00	42.613	42.472
3/17/17 6:00	42.592	42.423	3/21/17 2:00	42.615	42.462
3/17/17 8:00	42.650	42.477	3/21/17 4:00	42.622	42.432
3/17/17 10:00	42.721	42.509	3/21/17 6:00	42.618	42.474
3/17/17 12:00	42.662	42.505	3/21/17 8:00	42.655	42.512
3/17/17 14:00	42.657	42.491	3/21/17 10:00	42.714	42.535
3/17/17 16:00	42.681	42.463	3/21/17 12:00	42.643	42.517
3/17/17 18:00	42.615	42.460	3/21/17 14:00	42.646	42.498
3/17/17 20:00	42.650	42.481	3/21/17 16:00	42.664	42.467
3/21/17 18:00	42.599	42.451	3/25/17 14:00	42.559	42.423
3/21/17 20:00	42.629	42.479	3/25/17 16:00	42.573	42.390
3/21/17 22:00	42.695	42.507	3/25/17 18:00	42.498	42.371
3/22/17 0:00	42.648	42.514	3/25/17 20:00	42.524	42.383
3/22/17 2:00	42.646	42.498	3/25/17 22:00	42.583	42.399

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/22/17 4:00	42.662	42.477	3/26/17 0:00	42.501	42.371
3/22/17 6:00	42.613	42.470	3/26/17 2:00	42.522	42.381
3/22/17 8:00	42.608	42.458	3/26/17 4:00	42.564	42.383
3/22/17 10:00	42.650	42.460	3/26/17 6:00	42.489	42.357
3/22/17 12:00	42.569	42.427	3/26/17 8:00	42.517	42.381
3/22/17 14:00	42.529	42.373	3/26/17 10:00	42.576	42.395
3/22/17 16:00	42.555	42.345	3/26/17 12:00	42.522	42.397
3/22/17 18:00	42.482	42.324	3/26/17 14:00	42.520	42.383
3/22/17 20:00	42.487	42.322	3/26/17 16:00	42.545	42.362
3/22/17 22:00	42.559	42.350	3/26/17 18:00	42.454	42.352
3/23/17 0:00	42.475	42.327	3/26/17 20:00	42.489	42.411
3/23/17 2:00	42.461	42.301	3/26/17 22:00	42.550	42.413
3/23/17 4:00	42.489	42.277	3/27/17 0:00	42.487	42.395
3/23/17 6:00	42.414	42.245	3/27/17 2:00	42.498	42.404
3/23/17 8:00	42.407	42.245	3/27/17 4:00	42.529	42.399
3/23/17 10:00	42.459	42.244	3/27/17 6:00	42.508	42.406
3/23/17 12:00	42.389	42.221	3/27/17 8:00	42.508	42.423
3/23/17 14:00	42.361	42.193	3/27/17 10:00	42.601	42.434
3/23/17 16:00	42.393	42.172	3/27/17 12:00	42.541	42.437
3/23/17 18:00	42.323	42.148	3/27/17 14:00	42.541	42.416
3/23/17 20:00	42.363	42.186	3/27/17 16:00	42.557	42.383
3/23/17 22:00	42.503	42.287	3/27/17 18:00	42.494	42.373
3/24/17 0:00	42.435	42.308	3/27/17 20:00	42.527	42.399
3/24/17 2:00	42.433	42.324	3/27/17 22:00	42.604	42.430
3/24/17 4:00	42.454	42.282	3/28/17 0:00	42.550	42.437
3/24/17 6:00	42.424	42.291	3/28/17 2:00	42.555	42.432
3/24/17 8:00	42.438	42.322	3/28/17 4:00	42.590	42.420
3/24/17 10:00	42.555	42.373	3/28/17 6:00	42.548	42.437
3/24/17 12:00	42.543	42.423	3/28/17 8:00	42.569	42.451
3/24/17 14:00	42.569	42.441	3/28/17 10:00	42.622	42.460
3/24/17 16:00	42.627	42.446	3/28/17 12:00	42.524	42.418
3/24/17 18:00	42.590	42.470	3/28/17 14:00	42.527	42.411
3/24/17 20:00	42.604	42.477	3/28/17 16:00	42.583	42.413
3/24/17 22:00	42.657	42.486	3/28/17 18:00	42.503	42.420
3/25/17 0:00	42.578	42.463	3/28/17 20:00	42.454	42.432
3/25/17 2:00	42.590	42.458	3/28/17 22:00	42.484	42.411
3/25/17 4:00	42.627	42.451	3/29/17 0:00	42.461	42.420
3/25/17 6:00	42.559	42.437	3/29/17 2:00	42.421	42.413
3/25/17 8:00	42.578	42.444	3/29/17 4:00	42.456	42.381
3/25/17 10:00	42.629	42.456	3/29/17 6:00	42.414	42.381
3/25/17 12:00	42.559	42.441	3/29/17 8:00	42.365	42.378
3/29/17 10:00	42.428	42.373	4/2/17 6:00	42.146	42.338
3/29/17 12:00	42.377	42.357	4/2/17 8:00	42.178	42.352
3/29/17 14:00	42.251	42.345	4/2/17 10:00	42.270	42.355
3/29/17 16:00	42.239	42.327	4/2/17 12:00	42.354	42.327
3/29/17 18:00	42.274	42.327	4/2/17 14:00	42.372	42.275
3/29/17 20:00	42.232	42.336	4/2/17 16:00	42.412	42.245

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/29/17 22:00	42.314	42.350	4/2/17 18:00	42.344	42.233
3/30/17 0:00	42.309	42.348	4/2/17 20:00	42.368	42.240
3/30/17 2:00	42.286	42.345	4/2/17 22:00	42.445	42.273
3/30/17 4:00	42.440	42.348	4/3/17 0:00	42.356	42.247
3/30/17 6:00	42.424	42.329	4/3/17 2:00	42.363	42.235
3/30/17 8:00	42.466	42.362	4/3/17 4:00	42.412	42.235
3/30/17 10:00	42.527	42.376	4/3/17 6:00	42.351	42.223
3/30/17 12:00	42.459	42.369	4/3/17 8:00	42.379	42.256
3/30/17 14:00	42.463	42.352	4/3/17 10:00	42.445	42.272
3/30/17 16:00	42.508	42.348	4/3/17 12:00	42.419	42.259
3/30/17 18:00	42.438	42.341	4/3/17 14:00	42.417	42.263
3/30/17 20:00	42.487	42.366	4/3/17 16:00	42.356	42.266
3/30/17 22:00	42.569	42.409	4/3/17 18:00	42.468	42.319
3/31/17 0:00	42.510	42.416	4/3/17 20:00	42.424	42.352
3/31/17 2:00	42.522	42.416	4/3/17 22:00	42.503	42.397
3/31/17 4:00	42.576	42.423	4/4/17 0:00	42.550	42.411
3/31/17 6:00	42.524	42.427	4/4/17 2:00	42.445	42.380
3/31/17 8:00	42.555	42.451	4/4/17 4:00	42.498	42.395
3/31/17 10:00	42.646	42.500	4/4/17 6:00	42.552	42.406
3/31/17 12:00	42.552	42.463	4/4/17 8:00	42.463	42.399
3/31/17 14:00	42.562	42.465	4/4/17 10:00	42.536	42.425
3/31/17 16:00	42.613	42.465	4/4/17 12:00	42.513	42.329
3/31/17 18:00	42.541	42.456	4/4/17 14:00	42.513	42.364
3/31/17 20:00	42.559	42.465	4/4/17 16:00	42.470	42.380
3/31/17 22:00	42.648	42.505	4/4/17 18:00	42.522	42.376
4/1/17 0:00	42.585	42.512	4/4/17 20:00	42.515	42.392
4/1/17 2:00	42.597	42.500	4/4/17 22:00	42.522	42.430
4/1/17 4:00	42.655	42.514	4/5/17 0:00	42.557	42.420
4/1/17 6:00	42.484	42.477	4/5/17 2:00	42.538	42.430
4/1/17 8:00	42.442	42.500	4/5/17 4:00	42.527	42.444
4/1/17 10:00	42.361	42.498	4/5/17 6:00	42.592	42.458
4/1/17 12:00	42.398	42.479	4/5/17 8:00	42.569	42.460
4/1/17 14:00	42.276	42.467	4/5/17 10:00	42.571	42.470
4/1/17 16:00	42.054	42.420	4/5/17 12:00	42.578	42.472
4/1/17 18:00	41.945	42.395	4/5/17 14:00	42.501	42.444
4/1/17 20:00	41.966	42.420	4/5/17 16:00	42.531	42.432
4/1/17 22:00	42.204	42.420	4/5/17 18:00	42.573	42.434
4/2/17 0:00	42.248	42.404	4/5/17 20:00	42.503	42.446
4/2/17 2:00	42.169	42.395	4/5/17 22:00	42.566	42.472
4/2/17 4:00	42.230	42.359	4/6/17 0:00	42.601	42.481
4/6/17 2:00	42.609	42.495	4/9/17 22:00	42.552	42.467
4/6/17 4:00	42.583	42.500	4/10/17 0:00	42.573	42.479
4/6/17 6:00	42.622	42.495	4/10/17 2:00	42.498	42.488
4/6/17 8:00	42.625	42.526	4/10/17 4:00	42.587	42.509
4/6/17 10:00	42.634	42.540	4/10/17 6:00	42.602	42.516
4/6/17 12:00	42.636	42.537	4/10/17 8:00	42.562	42.517
4/6/17 14:00	42.536	42.493	4/10/17 10:00	42.629	42.559

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/6/17 16:00	42.559	42.467	4/10/17 12:00	42.634	42.596
4/6/17 18:00	42.576	42.446	4/10/17 14:00	42.613	42.556
4/6/17 20:00	42.487	42.432	4/10/17 16:00	42.611	42.559
4/6/17 22:00	42.557	42.456	4/10/17 18:00	42.625	42.556
4/7/17 0:00	42.583	42.453	4/10/17 20:00	42.618	42.556
4/7/17 2:00	42.503	42.437	4/10/17 22:00	42.625	42.580
4/7/17 4:00	42.520	42.427	4/11/17 0:00	42.627	42.580
4/7/17 6:00	42.541	42.406	4/11/17 2:00	42.630	42.563
4/7/17 8:00	42.461	42.406	4/11/17 4:00	42.599	42.554
4/7/17 10:00	42.506	42.392	4/11/17 6:00	42.632	42.559
4/7/17 12:00	42.480	42.352	4/11/17 8:00	42.592	42.573
4/7/17 14:00	42.426	42.296	4/11/17 10:00	42.648	42.568
4/7/17 16:00	42.379	42.235	4/11/17 12:00	42.622	42.552
4/7/17 18:00	42.391	42.252	4/11/17 14:00	42.559	42.472
4/7/17 20:00	42.382	42.254	4/11/17 16:00	42.491	42.427
4/7/17 22:00	42.368	42.265	4/11/17 18:00	42.501	42.409
4/8/17 0:00	42.382	42.249	4/11/17 20:00	42.417	42.411
4/8/17 2:00	42.326	42.233	4/11/17 22:00	42.543	42.456
4/8/17 4:00	42.349	42.221	4/12/17 0:00	42.566	42.441
4/8/17 6:00	42.349	42.216	4/12/17 2:00	42.475	42.434
4/8/17 8:00	42.333	42.233	4/12/17 4:00	42.508	42.437
4/8/17 10:00	42.358	42.242	4/12/17 6:00	42.522	42.420
4/8/17 12:00	42.396	42.256	4/12/17 8:00	42.417	42.411
4/8/17 14:00	42.377	42.245	4/12/17 10:00	42.510	42.406
4/8/17 16:00	42.351	42.235	4/12/17 12:00	42.491	42.399
4/8/17 18:00	42.351	42.218	4/12/17 14:00	42.372	42.338
4/8/17 20:00	42.358	42.230	4/12/17 16:00	42.410	42.310
4/8/17 22:00	42.358	42.254	4/12/17 18:00	42.450	42.362
4/9/17 0:00	42.356	42.249	4/12/17 20:00	42.498	42.406
4/9/17 2:00	42.358	42.237	4/12/17 22:00	42.506	42.446
4/9/17 4:00	42.335	42.240	4/13/17 0:00	42.536	42.460
4/9/17 6:00	42.344	42.235	4/13/17 2:00	42.513	42.441
4/9/17 8:00	42.391	42.273	4/13/17 4:00	42.494	42.444
4/9/17 10:00	42.382	42.291	4/13/17 6:00	42.529	42.448
4/9/17 12:00	42.424	42.308	4/13/17 8:00	42.463	42.460
4/9/17 14:00	42.412	42.305	4/13/17 10:00	42.555	42.474
4/9/17 16:00	42.384	42.296	4/13/17 12:00	42.550	42.462
4/9/17 18:00	42.433	42.317	4/13/17 14:00	42.429	42.439
4/9/17 20:00	42.480	42.406	4/13/17 16:00	42.484	42.402
4/13/17 18:00	42.403	42.399	4/17/17 14:00	42.489	42.430
4/13/17 20:00	42.321	42.383	4/17/17 16:00	42.435	42.399
4/13/17 22:00	42.342	42.392	4/17/17 18:00	42.435	42.364
4/14/17 0:00	42.431	42.383	4/17/17 20:00	42.351	42.364
4/14/17 2:00	42.440	42.359	4/17/17 22:00	42.459	42.381
4/14/17 4:00	42.316	42.338	4/18/17 0:00	42.468	42.383
4/14/17 6:00	42.307	42.315	4/18/17 2:00	42.347	42.369
4/14/17 8:00	42.286	42.322	4/18/17 4:00	42.436	42.366

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/14/17 10:00	42.291	42.319	4/18/17 6:00	42.447	42.362
4/14/17 12:00	42.309	42.291	4/18/17 8:00	42.382	42.383
4/14/17 14:00	42.297	42.258	4/18/17 10:00	42.466	42.401
4/14/17 16:00	42.335	42.252	4/18/17 12:00	42.456	42.385
4/14/17 18:00	42.351	42.245	4/18/17 14:00	42.372	42.371
4/14/17 20:00	42.276	42.252	4/18/17 16:00	42.433	42.371
4/14/17 22:00	42.375	42.279	4/18/17 18:00	42.431	42.359
4/15/17 0:00	42.417	42.298	4/18/17 20:00	42.358	42.357
4/15/17 2:00	42.368	42.331	4/18/17 22:00	42.454	42.387
4/15/17 4:00	42.396	42.317	4/19/17 0:00	42.456	42.383
4/15/17 6:00	42.424	42.338	4/19/17 2:00	42.445	42.381
4/15/17 8:00	42.333	42.331	4/19/17 4:00	42.398	42.364
4/15/17 10:00	42.445	42.366	4/19/17 6:00	42.389	42.336
4/15/17 12:00	42.454	42.394	4/19/17 8:00	42.391	42.334
4/15/17 14:00	42.400	42.390	4/19/17 10:00	42.354	42.329
4/15/17 16:00	42.466	42.399	4/19/17 12:00	42.384	42.317
4/15/17 18:00	42.503	42.420	4/19/17 14:00	42.384	42.317
4/15/17 20:00	42.424	42.423	4/19/17 16:00	42.403	42.388
4/15/17 22:00	42.520	42.451	4/19/17 18:00	42.457	42.413
4/16/17 0:00	42.562	42.493	4/19/17 20:00	42.408	42.430
4/16/17 2:00	42.459	42.495	4/19/17 22:00	42.517	42.481
4/16/17 4:00	42.550	42.502	4/20/17 0:00	42.571	42.521
4/16/17 6:00	42.569	42.516	4/20/17 2:00	42.531	42.573
4/16/17 8:00	42.522	42.531	4/20/17 4:00	42.606	42.575
4/16/17 10:00	42.573	42.549	4/20/17 6:00	42.541	42.533
4/16/17 12:00	42.498	42.547	4/20/17 8:00	42.468	42.533
4/16/17 14:00	42.506	42.519	4/20/17 10:00	42.581	42.545
4/16/17 16:00	42.531	42.488	4/20/17 12:00	42.569	42.535
4/16/17 18:00	42.536	42.481	4/20/17 14:00	42.459	42.498
4/16/17 20:00	42.468	42.467	4/20/17 16:00	42.498	42.456
4/16/17 22:00	42.531	42.495	4/20/17 18:00	42.487	42.434
4/17/17 0:00	42.541	42.491	4/20/17 20:00	42.417	42.432
4/17/17 2:00	42.473	42.481	4/20/17 22:00	42.513	42.472
4/17/17 4:00	42.527	42.479	4/21/17 0:00	42.545	42.498
4/17/17 6:00	42.529	42.479	4/21/17 2:00	42.431	42.472
4/17/17 8:00	42.550	42.495	4/21/17 4:00	42.459	42.474
4/17/17 10:00	42.510	42.486	4/21/17 6:00	42.524	42.500
4/17/17 12:00	42.527	42.470	4/21/17 8:00	42.407	42.441
4/21/17 10:00	42.494	42.456	4/25/17 6:00	42.316	42.287
4/21/17 12:00	42.508	42.463	4/25/17 8:00	42.216	42.294
4/21/17 14:00	42.426	42.439	4/25/17 10:00	42.375	42.354
4/21/17 16:00	42.489	42.458	4/25/17 12:00	42.366	42.343
4/21/17 18:00	42.529	42.472	4/25/17 14:00	42.302	42.364
4/21/17 20:00	42.436	42.486	4/25/17 16:00	42.398	42.362
4/21/17 22:00	42.531	42.524	4/25/17 18:00	42.407	42.401
4/22/17 0:00	42.508	42.519	4/25/17 20:00	42.335	42.425
4/22/17 2:00	42.379	42.512	4/25/17 22:00	42.461	42.455

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/22/17 4:00	42.536	42.507	4/26/17 0:00	42.461	42.467
4/22/17 6:00	42.545	42.509	4/26/17 2:00	42.368	42.451
4/22/17 8:00	42.461	42.537	4/26/17 4:00	42.471	42.474
4/22/17 10:00	42.581	42.547	4/26/17 6:00	42.457	42.463
4/22/17 12:00	42.569	42.535	4/26/17 8:00	42.412	42.472
4/22/17 14:00	42.468	42.509	4/26/17 10:00	42.459	42.462
4/22/17 16:00	42.517	42.486	4/26/17 12:00	42.459	42.453
4/22/17 18:00	42.508	42.472	4/26/17 14:00	42.356	42.441
4/22/17 20:00	42.445	42.463	4/26/17 16:00	42.445	42.441
4/22/17 22:00	42.501	42.486	4/26/17 18:00	42.412	42.408
4/23/17 0:00	42.517	42.481	4/26/17 20:00	42.321	42.397
4/23/17 2:00	42.452	42.476	4/26/17 22:00	42.438	42.434
4/23/17 4:00	42.482	42.456	4/27/17 0:00	42.449	42.446
4/23/17 6:00	42.491	42.444	4/27/17 2:00	42.363	42.444
4/23/17 8:00	42.400	42.441	4/27/17 4:00	42.426	42.418
4/23/17 10:00	42.475	42.441	4/27/17 6:00	42.403	42.411
4/23/17 12:00	42.456	42.420	4/27/17 8:00	42.414	42.420
4/23/17 14:00	42.340	42.359	4/27/17 10:00	42.424	42.434
4/23/17 16:00	42.368	42.324	4/27/17 12:00	42.440	42.411
4/23/17 18:00	42.379	42.296	4/27/17 14:00	42.314	42.378
4/23/17 20:00	42.234	42.284	4/27/17 16:00	42.386	42.376
4/23/17 22:00	42.356	42.301	4/27/17 18:00	42.351	42.378
4/24/17 0:00	42.358	42.291	4/27/17 20:00	42.237	42.329
4/24/17 2:00	42.235	42.286	4/27/17 22:00	42.405	42.408
4/24/17 4:00	42.314	42.258	4/28/17 0:00	42.387	42.399
4/24/17 6:00	42.281	42.228	4/28/17 2:00	42.234	42.380
4/24/17 8:00	42.213	42.237	4/28/17 4:00	42.328	42.373
4/24/17 10:00	42.281	42.233	4/28/17 6:00	42.316	42.369
4/24/17 12:00	42.279	42.219	4/28/17 8:00	42.209	42.371
4/24/17 14:00	42.181	42.221	4/28/17 10:00	42.363	42.408
4/24/17 16:00	42.288	42.237	4/28/17 12:00	42.396	42.444
4/24/17 18:00	42.302	42.247	4/28/17 14:00	42.372	42.481
4/24/17 20:00	42.223	42.263	4/28/17 16:00	42.498	42.528
4/24/17 22:00	42.330	42.286	4/28/17 18:00	42.541	42.540
4/25/17 0:00	42.351	42.303	4/28/17 20:00	42.464	42.575
4/25/17 2:00	42.200	42.284	4/28/17 22:00	42.609	42.626
4/25/17 4:00	42.314	42.270	4/29/17 0:00	42.590	42.603
4/29/17 2:00	42.436	42.554	5/2/17 22:00	42.368	42.263
4/29/17 4:00	42.534	42.545	5/3/17 0:00	42.380	42.256
4/29/17 6:00	42.555	42.563	5/3/17 2:00	42.305	42.256
4/29/17 8:00	42.370	42.558	5/3/17 4:00	42.354	42.249
4/29/17 10:00	42.454	42.535	5/3/17 6:00	42.391	42.263
4/29/17 12:00	42.510	42.540	5/3/17 8:00	42.330	42.289
4/29/17 14:00	42.384	42.512	5/3/17 10:00	42.375	42.247
4/29/17 16:00	42.400	42.483	5/3/17 12:00	42.419	42.298
4/29/17 18:00	42.396	42.486	5/3/17 14:00	42.279	42.287
4/29/17 20:00	42.253	42.479	5/3/17 16:00	42.267	42.317

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/29/17 22:00	42.333	42.479	5/3/17 18:00	42.417	42.322
4/30/17 0:00	42.237	42.479	5/3/17 20:00	42.300	42.322
4/30/17 2:00	42.036	42.394	5/3/17 22:00	42.445	42.366
4/30/17 4:00	42.108	42.359	5/4/17 0:00	42.466	42.380
4/30/17 6:00	41.977	42.282	5/4/17 2:00	42.344	42.359
4/30/17 8:00	42.001	42.226	5/4/17 4:00	42.412	42.345
4/30/17 10:00	42.022	42.233	5/4/17 6:00	42.433	42.336
4/30/17 12:00	42.064	42.242	5/4/17 8:00	42.337	42.350
4/30/17 14:00	42.045	42.247	5/4/17 10:00	42.438	42.380
4/30/17 16:00	42.015	42.245	5/4/17 12:00	42.445	42.373
4/30/17 18:00	41.987	42.237	5/4/17 14:00	42.326	42.343
4/30/17 20:00	41.879	42.230	5/4/17 16:00	42.389	42.345
4/30/17 22:00	41.891	42.233	5/4/17 18:00	42.408	42.329
5/1/17 0:00	41.903	42.214	5/4/17 20:00	42.293	42.315
5/1/17 2:00	41.821	42.204	5/4/17 22:00	42.403	42.336
5/1/17 4:00	41.877	42.193	5/5/17 0:00	42.401	42.331
5/1/17 6:00	41.844	42.181	5/5/17 2:00	42.288	42.324
5/1/17 8:00	41.755	42.188	5/5/17 4:00	42.394	42.329
5/1/17 10:00	42.284	42.209	5/5/17 6:00	42.426	42.324
5/1/17 12:00	42.342	42.226	5/5/17 8:00	42.300	42.340
5/1/17 14:00	42.246	42.198	5/5/17 10:00	42.396	42.345
5/1/17 16:00	42.295	42.179	5/5/17 12:00	42.398	42.324
5/1/17 18:00	42.309	42.158	5/5/17 14:00	42.344	42.289
5/1/17 20:00	42.230	42.162	5/5/17 16:00	42.286	42.268
5/1/17 22:00	42.340	42.207	5/5/17 18:00	42.295	42.240
5/2/17 0:00	42.384	42.230	5/5/17 20:00	42.227	42.242
5/2/17 2:00	42.300	42.235	5/5/17 22:00	42.326	42.272
5/2/17 4:00	42.361	42.237	5/6/17 0:00	42.349	42.279
5/2/17 6:00	42.382	42.233	5/6/17 2:00	42.272	42.286
5/2/17 8:00	42.319	42.254	5/6/17 4:00	42.333	42.286
5/2/17 10:00	42.377	42.272	5/6/17 6:00	42.363	42.298
5/2/17 12:00	42.414	42.275	5/6/17 8:00	42.361	42.310
5/2/17 14:00	42.307	42.270	5/6/17 10:00	42.337	42.315
5/2/17 16:00	42.358	42.249	5/6/17 12:00	42.347	42.301
5/2/17 18:00	42.354	42.244	5/6/17 14:00	42.258	42.284
5/2/17 20:00	42.297	42.251	5/6/17 16:00	42.307	42.273
5/6/17 18:00	42.307	42.256	5/10/17 14:00	42.281	42.383
5/6/17 20:00	42.225	42.259	5/10/17 16:00	42.354	42.390
5/6/17 22:00	42.347	42.296	5/10/17 18:00	42.375	42.394
5/7/17 0:00	42.368	42.310	5/10/17 20:00	42.319	42.415
5/7/17 2:00	42.260	42.310	5/10/17 22:00	42.401	42.441
5/7/17 4:00	42.358	42.322	5/11/17 0:00	42.398	42.422
5/7/17 6:00	42.361	42.319	5/11/17 2:00	42.321	42.422
5/7/17 8:00	42.258	42.312	5/11/17 4:00	42.394	42.453
5/7/17 10:00	42.335	42.305	5/11/17 6:00	42.349	42.462
5/7/17 12:00	42.305	42.291	5/11/17 8:00	42.183	42.409
5/7/17 14:00	42.207	42.261	5/11/17 10:00	42.307	42.448

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/7/17 16:00	42.265	42.247	5/11/17 12:00	42.333	42.462
5/7/17 18:00	42.279	42.242	5/11/17 14:00	42.239	42.472
5/7/17 20:00	42.255	42.254	5/11/17 16:00	42.321	42.460
5/7/17 22:00	42.316	42.301	5/11/17 18:00	42.356	42.411
5/8/17 0:00	42.344	42.331	5/11/17 20:00	42.309	42.422
5/8/17 2:00	42.382	42.369	5/11/17 22:00	42.412	42.462
5/8/17 4:00	42.321	42.350	5/12/17 0:00	42.424	42.465
5/8/17 6:00	42.342	42.336	5/12/17 2:00	42.326	42.451
5/8/17 8:00	42.290	42.359	5/12/17 4:00	42.401	42.458
5/8/17 10:00	42.370	42.383	5/12/17 6:00	42.408	42.451
5/8/17 12:00	42.401	42.376	5/12/17 8:00	42.323	42.444
5/8/17 14:00	42.263	42.357	5/12/17 10:00	42.398	42.448
5/8/17 16:00	42.342	42.352	5/12/17 12:00	42.396	42.437
5/8/17 18:00	42.342	42.331	5/12/17 14:00	42.291	42.408
5/8/17 20:00	42.253	42.340	5/12/17 16:00	42.344	42.392
5/8/17 22:00	42.373	42.373	5/12/17 18:00	42.340	42.371
5/9/17 0:00	42.408	42.399	5/12/17 20:00	42.256	42.364
5/9/17 2:00	42.307	42.413	5/12/17 22:00	42.340	42.385
5/9/17 4:00	42.389	42.399	5/13/17 0:00	42.356	42.390
5/9/17 6:00	42.398	42.385	5/13/17 2:00	42.256	42.373
5/9/17 8:00	42.302	42.406	5/13/17 4:00	42.326	42.376
5/9/17 10:00	42.408	42.422	5/13/17 6:00	42.323	42.357
5/9/17 12:00	42.403	42.399	5/13/17 8:00	42.239	42.357
5/9/17 14:00	42.239	42.352	5/13/17 10:00	42.312	42.362
5/9/17 16:00	42.333	42.340	5/13/17 12:00	42.295	42.336
5/9/17 18:00	42.328	42.310	5/13/17 14:00	42.181	42.296
5/9/17 20:00	42.218	42.303	5/13/17 16:00	42.239	42.279
5/9/17 22:00	42.319	42.331	5/13/17 18:00	42.239	42.265
5/10/17 0:00	42.340	42.336	5/13/17 20:00	42.162	42.265
5/10/17 2:00	42.235	42.326	5/13/17 22:00	42.244	42.279
5/10/17 4:00	42.321	42.343	5/14/17 0:00	42.265	42.291
5/10/17 6:00	42.333	42.338	5/14/17 2:00	42.171	42.284
5/10/17 8:00	42.253	42.343	5/14/17 4:00	42.237	42.282
5/10/17 10:00	42.354	42.385	5/14/17 6:00	42.249	42.279
5/10/17 12:00	42.344	42.366	5/14/17 8:00	42.176	42.294
5/14/17 10:00	42.255	42.303	5/18/17 6:00	42.202	42.153
5/14/17 12:00	42.284	42.329	5/18/17 8:00	42.143	42.155
5/14/17 14:00	42.204	42.326	5/18/17 10:00	42.221	42.162
5/14/17 16:00	42.281	42.338	5/18/17 12:00	42.200	42.139
5/14/17 18:00	42.288	42.338	5/18/17 14:00	42.111	42.118
5/14/17 20:00	42.221	42.345	5/18/17 16:00	42.148	42.085
5/14/17 22:00	42.305	42.366	5/18/17 18:00	42.122	42.059
5/15/17 0:00	42.319	42.371	5/18/17 20:00	41.741	42.106
5/15/17 2:00	42.228	42.357	5/18/17 22:00	41.767	42.073
5/15/17 4:00	42.293	42.357	5/19/17 0:00	41.699	42.050
5/15/17 6:00	42.295	42.350	5/19/17 2:00	41.599	42.052
5/15/17 8:00	42.225	42.357	5/19/17 4:00	42.099	42.050

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/15/17 10:00	42.298	42.364	5/19/17 6:00	42.155	42.057
5/15/17 12:00	42.302	42.357	5/19/17 8:00	41.781	42.064
5/15/17 14:00	42.195	42.331	5/19/17 10:00	41.975	42.101
5/15/17 16:00	42.249	42.315	5/19/17 12:00	42.020	42.057
5/15/17 18:00	42.235	42.289	5/19/17 14:00	41.875	42.024
5/15/17 20:00	42.162	42.287	5/19/17 16:00	41.709	42.026
5/15/17 22:00	42.314	42.390	5/19/17 18:00	41.767	42.026
5/16/17 0:00	42.293	42.352	5/19/17 20:00	41.580	41.946
5/16/17 2:00	42.167	42.308	5/19/17 22:00	41.498	41.881
5/16/17 4:00	42.251	42.315	5/20/17 0:00	41.484	41.855
5/16/17 6:00	42.230	42.289	5/20/17 2:00	41.461	41.822
5/16/17 8:00	42.162	42.303	5/20/17 4:00	41.344	41.768
5/16/17 10:00	42.237	42.312	5/20/17 6:00	41.580	41.682
5/16/17 12:00	42.246	42.310	5/20/17 8:00	41.508	41.585
5/16/17 14:00	42.155	42.303	5/20/17 10:00	41.914	41.726
5/16/17 16:00	42.207	42.284	5/20/17 12:00	41.935	41.764
5/16/17 18:00	42.186	42.319	5/20/17 14:00	41.837	41.719
5/16/17 20:00	42.006	42.228	5/20/17 16:00	41.877	41.696
5/16/17 22:00	42.157	42.230	5/20/17 18:00	41.898	41.686
5/17/17 0:00	42.230	42.272	5/20/17 20:00	41.854	41.672
5/17/17 2:00	41.903	42.310	5/20/17 22:00	41.938	41.691
5/17/17 4:00	41.788	42.265	5/21/17 0:00	41.935	41.698
5/17/17 6:00	41.720	42.233	5/21/17 2:00	41.865	41.684
5/17/17 8:00	41.713	42.200	5/21/17 4:00	41.889	41.660
5/17/17 10:00	41.706	42.167	5/21/17 6:00	41.907	41.677
5/17/17 12:00	41.648	42.125	5/21/17 8:00	41.879	41.700
5/17/17 14:00	41.889	42.233	5/21/17 10:00	41.968	41.728
5/17/17 16:00	41.839	42.214	5/21/17 12:00	41.935	41.721
5/17/17 18:00	42.174	42.249	5/21/17 14:00	41.861	41.698
5/17/17 20:00	42.157	42.249	5/21/17 16:00	41.891	41.663
5/17/17 22:00	42.239	42.251	5/21/17 18:00	41.868	41.656
5/18/17 0:00	42.244	42.233	5/21/17 20:00	41.884	41.684
5/18/17 2:00	42.157	42.197	5/21/17 22:00	41.921	41.714
5/18/17 4:00	42.209	42.169	5/22/17 0:00	41.947	41.721
5/22/17 2:00	41.879	41.728	5/25/17 22:00	41.900	41.937
5/22/17 4:00	41.868	41.719	5/26/17 0:00	41.772	41.829
5/22/17 6:00	41.879	41.703	5/26/17 2:00	41.629	41.895
5/22/17 8:00	41.786	41.672	5/26/17 4:00	41.905	41.902
5/22/17 10:00	41.900	41.710	5/26/17 6:00	41.968	41.942
5/22/17 12:00	41.884	41.710	5/26/17 8:00	41.942	41.996
5/22/17 14:00	41.854	41.679	5/26/17 10:00	42.057	42.019
5/22/17 16:00	41.798	41.642	5/26/17 12:00	42.036	42.022
5/22/17 18:00	41.844	41.651	5/26/17 14:00	41.931	41.986
5/22/17 20:00	41.800	41.682	5/26/17 16:00	42.022	41.986
5/22/17 22:00	41.783	41.761	5/26/17 18:00	41.985	41.972
5/23/17 0:00	41.657	41.754	5/26/17 20:00	41.914	41.963
5/23/17 2:00	41.456	41.609	5/26/17 22:00	42.031	41.996

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/23/17 4:00	41.889	41.796	5/27/17 0:00	42.008	41.993
5/23/17 6:00	41.886	41.789	5/27/17 2:00	41.940	41.998
5/23/17 8:00	41.879	41.796	5/27/17 4:00	41.741	42.080
5/23/17 10:00	41.919	41.799	5/27/17 6:00	41.690	41.951
5/23/17 12:00	41.910	41.794	5/27/17 8:00	41.487	41.799
5/23/17 14:00	41.861	41.789	5/27/17 10:00	41.751	41.998
5/23/17 16:00	41.926	41.794	5/27/17 12:00	41.952	41.982
5/23/17 18:00	41.900	41.801	5/27/17 14:00	41.875	41.946
5/23/17 20:00	41.840	41.679	5/27/17 16:00	41.956	41.932
5/23/17 22:00	41.931	41.778	5/27/17 18:00	41.956	41.921
5/24/17 0:00	41.926	41.825	5/27/17 20:00	41.882	41.904
5/24/17 2:00	41.842	41.792	5/27/17 22:00	41.996	41.923
5/24/17 4:00	41.924	41.792	5/28/17 0:00	41.973	41.900
5/24/17 6:00	41.896	41.792	5/28/17 2:00	41.891	41.871
5/24/17 8:00	41.837	41.792	5/28/17 4:00	41.959	41.853
5/24/17 10:00	41.914	41.803	5/28/17 6:00	41.935	41.829
5/24/17 12:00	41.877	41.778	5/28/17 8:00	41.863	41.836
5/24/17 14:00	41.788	41.745	5/28/17 10:00	41.968	41.853
5/24/17 16:00	41.844	41.733	5/28/17 12:00	41.949	41.850
5/24/17 18:00	41.854	41.717	5/28/17 14:00	41.837	41.818
5/24/17 20:00	41.762	41.710	5/28/17 16:00	41.900	41.799
5/24/17 22:00	41.847	41.731	5/28/17 18:00	41.903	41.803
5/25/17 0:00	41.833	41.735	5/28/17 20:00	41.833	41.789
5/25/17 2:00	41.776	41.738	5/28/17 22:00	41.882	41.792
5/25/17 4:00	41.847	41.735	5/29/17 0:00	41.942	41.827
5/25/17 6:00	41.835	41.745	5/29/17 2:00	41.819	41.818
5/25/17 8:00	41.753	41.733	5/29/17 4:00	41.928	41.843
5/25/17 10:00	41.865	41.764	5/29/17 6:00	41.924	41.843
5/25/17 12:00	41.818	41.728	5/29/17 8:00	41.847	41.846
5/25/17 14:00	41.737	41.705	5/29/17 10:00	41.956	41.862
5/25/17 16:00	41.821	41.724	5/29/17 12:00	41.942	41.869
5/25/17 18:00	41.828	41.750	5/29/17 14:00	41.823	41.832
5/25/17 20:00	41.821	41.815	5/29/17 16:00	41.933	41.843
5/29/17 18:00	41.900	41.822	6/2/17 14:00	41.741	41.822
5/29/17 20:00	41.819	41.803	6/2/17 16:00	41.828	41.813
5/29/17 22:00	41.940	41.850	6/2/17 18:00	41.805	41.801
5/30/17 0:00	41.933	41.867	6/2/17 20:00	41.732	41.808
5/30/17 2:00	41.844	41.857	6/2/17 22:00	41.851	41.848
5/30/17 4:00	41.933	41.862	6/3/17 0:00	41.868	41.876
5/30/17 6:00	41.917	41.864	6/3/17 2:00	41.779	41.867
5/30/17 8:00	41.814	41.846	6/3/17 4:00	41.870	41.862
5/30/17 10:00	41.933	41.867	6/3/17 6:00	41.861	41.874
5/30/17 12:00	41.914	41.857	6/3/17 8:00	41.791	41.888
5/30/17 14:00	41.805	41.822	6/3/17 10:00	41.865	41.886
5/30/17 16:00	41.898	41.825	6/3/17 12:00	41.854	41.878
5/30/17 18:00	41.865	41.815	6/3/17 14:00	41.753	41.846
5/30/17 20:00	41.767	41.792	6/3/17 16:00	41.840	41.841

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/30/17 22:00	41.905	41.834	6/3/17 18:00	41.812	41.825
5/31/17 0:00	41.898	41.853	6/3/17 20:00	41.741	41.839
5/31/17 2:00	41.812	41.848	6/3/17 22:00	41.856	41.862
5/31/17 4:00	41.882	41.839	6/4/17 0:00	41.849	41.871
5/31/17 6:00	41.889	41.855	6/4/17 2:00	41.737	41.848
5/31/17 8:00	41.826	41.867	6/4/17 4:00	41.837	41.846
5/31/17 10:00	41.912	41.862	6/4/17 6:00	41.819	41.848
5/31/17 12:00	41.898	41.862	6/4/17 8:00	41.744	41.841
5/31/17 14:00	41.798	41.843	6/4/17 10:00	41.816	41.841
5/31/17 16:00	41.865	41.834	6/4/17 12:00	41.809	41.834
5/31/17 18:00	41.849	41.820	6/4/17 14:00	41.702	41.806
5/31/17 20:00	41.781	41.827	6/4/17 16:00	41.788	41.796
5/31/17 22:00	41.893	41.848	6/4/17 18:00	41.776	41.794
6/1/17 0:00	41.889	41.864	6/4/17 20:00	41.695	41.792
6/1/17 2:00	41.748	41.801	6/4/17 22:00	41.807	41.813
6/1/17 4:00	41.891	41.860	6/5/17 0:00	41.788	41.825
6/1/17 6:00	41.849	41.829	6/5/17 2:00	41.711	41.820
6/1/17 8:00	41.793	41.850	6/5/17 4:00	41.812	41.825
6/1/17 10:00	41.900	41.874	6/5/17 6:00	41.805	41.834
6/1/17 12:00	41.863	41.848	6/5/17 8:00	41.732	41.843
6/1/17 14:00	41.760	41.815	6/5/17 10:00	41.833	41.853
6/1/17 16:00	41.805	41.782	6/5/17 12:00	41.802	41.846
6/1/17 18:00	41.798	41.778	6/5/17 14:00	41.706	41.825
6/1/17 20:00	41.725	41.782	6/5/17 16:00	41.793	41.815
6/1/17 22:00	41.816	41.803	6/5/17 18:00	41.772	41.808
6/2/17 0:00	41.830	41.829	6/5/17 20:00	41.702	41.822
6/2/17 2:00	41.760	41.827	6/5/17 22:00	41.819	41.846
6/2/17 4:00	41.844	41.829	6/6/17 0:00	41.814	41.857
6/2/17 6:00	41.858	41.853	6/6/17 2:00	41.725	41.855
6/2/17 8:00	41.791	41.864	6/6/17 4:00	41.828	41.862
6/2/17 10:00	41.889	41.867	6/6/17 6:00	41.823	41.881
6/2/17 12:00	41.858	41.857	6/6/17 8:00	41.753	41.895
6/6/17 10:00	41.861	41.911	6/10/17 6:00	41.636	41.703
6/6/17 12:00	41.840	41.907	6/10/17 8:00	41.547	41.698
6/6/17 14:00	41.741	41.883	6/10/17 10:00	41.655	41.703
6/6/17 16:00	41.840	41.888	6/10/17 12:00	41.639	41.710
6/6/17 18:00	41.713	41.874	6/10/17 14:00	41.536	41.691
6/6/17 20:00	41.732	41.881	6/10/17 16:00	41.650	41.698
6/6/17 22:00	41.849	41.904	6/10/17 18:00	41.620	41.689
6/7/17 0:00	41.858	41.932	6/10/17 20:00	41.538	41.684
6/7/17 2:00	41.748	41.904	6/10/17 22:00	41.664	41.721
6/7/17 4:00	41.856	41.914	6/11/17 0:00	41.667	41.750
6/7/17 6:00	41.828	41.916	6/11/17 2:00	41.578	41.735
6/7/17 8:00	41.751	41.909	6/11/17 4:00	41.664	41.728
6/7/17 10:00	41.858	41.918	6/11/17 6:00	41.648	41.735
6/7/17 12:00	41.819	41.900	6/11/17 8:00	41.559	41.696
6/7/17 14:00	41.720	41.874	6/11/17 10:00	41.678	41.752

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/7/17 16:00	41.807	41.864	6/11/17 12:00	41.660	41.750
6/7/17 18:00	41.769	41.843	6/11/17 14:00	41.568	41.740
6/7/17 20:00	41.685	41.832	6/11/17 16:00	41.685	41.754
6/7/17 22:00	41.807	41.867	6/11/17 18:00	41.655	41.747
6/8/17 0:00	41.786	41.860	6/11/17 20:00	41.585	41.759
6/8/17 2:00	41.697	41.850	6/11/17 22:00	41.730	41.810
6/8/17 4:00	41.793	41.850	6/12/17 0:00	41.711	41.818
6/8/17 6:00	41.772	41.846	6/12/17 2:00	41.625	41.815
6/8/17 8:00	41.683	41.841	6/12/17 4:00	41.730	41.820
6/8/17 10:00	41.774	41.834	6/12/17 6:00	41.704	41.818
6/8/17 12:00	41.732	41.771	6/12/17 8:00	41.627	41.825
6/8/17 14:00	41.648	41.794	6/12/17 10:00	41.737	41.836
6/8/17 16:00	41.737	41.792	6/12/17 12:00	41.706	41.825
6/8/17 18:00	41.695	41.764	6/12/17 14:00	41.585	41.778
6/8/17 20:00	41.618	41.764	6/12/17 16:00	41.676	41.773
6/8/17 22:00	41.737	41.789	6/12/17 18:00	41.639	41.750
6/9/17 0:00	41.727	41.801	6/12/17 20:00	41.550	41.740
6/9/17 2:00	41.622	41.775	6/12/17 22:00	41.681	41.775
6/9/17 4:00	41.720	41.778	6/13/17 0:00	41.671	41.792
6/9/17 6:00	41.706	41.782	6/13/17 2:00	41.592	41.794
6/9/17 8:00	41.625	41.782	6/13/17 4:00	41.688	41.782
6/9/17 10:00	41.730	41.787	6/13/17 6:00	41.669	41.796
6/9/17 12:00	41.678	41.761	6/13/17 8:00	41.575	41.778
6/9/17 14:00	41.564	41.719	6/13/17 10:00	41.667	41.771
6/9/17 16:00	41.667	41.719	6/13/17 12:00	41.627	41.745
6/9/17 18:00	41.627	41.696	6/13/17 14:00	41.522	41.724
6/9/17 20:00	41.536	41.689	6/13/17 16:00	41.622	41.712
6/9/17 22:00	41.660	41.707	6/13/17 18:00	41.582	41.691
6/10/17 0:00	41.660	41.728	6/13/17 20:00	41.272	41.733
6/10/17 2:00	41.564	41.707	6/13/17 22:00	41.636	41.775
6/10/17 4:00	41.660	41.707	6/14/17 0:00	41.695	41.825
6/14/17 2:00	41.592	41.801	6/17/17 22:00	41.695	41.843
6/14/17 4:00	41.690	41.801	6/18/17 0:00	41.709	41.886
6/14/17 6:00	41.709	41.850	6/18/17 2:00	41.613	41.874
6/14/17 8:00	41.660	41.878	6/18/17 4:00	41.727	41.916
6/14/17 10:00	41.765	41.890	6/18/17 6:00	41.625	41.909
6/14/17 12:00	41.739	41.890	6/18/17 8:00	41.632	41.907
6/14/17 14:00	41.641	41.869	6/18/17 10:00	41.739	41.914
6/14/17 16:00	41.737	41.867	6/18/17 12:00	41.688	41.888
6/14/17 18:00	41.697	41.846	6/18/17 14:00	41.646	41.848
6/14/17 20:00	41.608	41.841	6/18/17 16:00	41.625	41.820
6/14/17 22:00	41.725	41.855	6/18/17 18:00	41.620	41.818
6/15/17 0:00	41.706	41.857	6/18/17 20:00	41.526	41.799
6/15/17 2:00	41.613	41.853	6/18/17 22:00	41.655	41.827
6/15/17 4:00	41.716	41.839	6/19/17 0:00	41.650	41.848
6/15/17 6:00	41.706	41.860	6/19/17 2:00	41.568	41.853
6/15/17 8:00	41.632	41.869	6/19/17 4:00	41.695	41.876

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/15/17 10:00	41.727	41.862	6/19/17 6:00	41.660	41.869
6/15/17 12:00	41.681	41.834	6/19/17 8:00	41.573	41.862
6/15/17 14:00	41.554	41.792	6/19/17 10:00	41.695	41.886
6/15/17 16:00	41.657	41.785	6/19/17 12:00	41.667	41.878
6/15/17 18:00	41.625	41.768	6/19/17 14:00	41.561	41.862
6/15/17 20:00	41.543	41.768	6/19/17 16:00	41.657	41.850
6/15/17 22:00	41.683	41.813	6/19/17 18:00	41.625	41.841
6/16/17 0:00	41.681	41.832	6/19/17 20:00	41.536	41.829
6/16/17 2:00	41.566	41.796	6/19/17 22:00	41.657	41.850
6/16/17 4:00	41.685	41.818	6/20/17 0:00	41.629	41.843
6/16/17 6:00	41.655	41.808	6/20/17 2:00	41.533	41.836
6/16/17 8:00	41.552	41.787	6/20/17 4:00	41.643	41.839
6/16/17 10:00	41.653	41.782	6/20/17 6:00	41.618	41.836
6/16/17 12:00	41.601	41.750	6/20/17 8:00	41.529	41.834
6/16/17 14:00	41.491	41.717	6/20/17 10:00	41.625	41.822
6/16/17 16:00	41.561	41.700	6/20/17 12:00	41.573	41.789
6/16/17 18:00	41.538	41.679	6/20/17 14:00	41.447	41.747
6/16/17 20:00	41.445	41.663	6/20/17 16:00	41.543	41.726
6/16/17 22:00	41.571	41.686	6/20/17 18:00	41.501	41.712
6/17/17 0:00	41.594	41.735	6/20/17 20:00	41.384	41.719
6/17/17 2:00	41.505	41.735	6/20/17 22:00	41.475	41.747
6/17/17 4:00	41.620	41.745	6/21/17 0:00	41.543	41.754
6/17/17 6:00	41.604	41.757	6/21/17 2:00	41.449	41.745
6/17/17 8:00	41.519	41.754	6/21/17 4:00	41.568	41.768
6/17/17 10:00	41.646	41.780	6/21/17 6:00	41.489	41.670
6/17/17 12:00	41.613	41.773	6/21/17 8:00	41.421	41.717
6/17/17 14:00	41.517	41.754	6/21/17 10:00	41.533	41.728
6/17/17 16:00	41.622	41.761	6/21/17 12:00	41.501	41.717
6/17/17 18:00	41.627	41.801	6/21/17 14:00	41.374	41.667
6/17/17 20:00	41.587	41.846	6/21/17 16:00	41.456	41.656
6/21/17 18:00	41.435	41.644	6/25/17 14:00	41.508	41.869
6/21/17 20:00	41.349	41.646	6/25/17 16:00	41.566	41.822
6/21/17 22:00	41.484	41.684	6/25/17 18:00	41.531	41.803
6/22/17 0:00	41.279	41.742	6/25/17 20:00	41.421	41.778
6/22/17 2:00	41.108	41.705	6/25/17 22:00	41.559	41.806
6/22/17 4:00	41.505	41.696	6/26/17 0:00	41.540	41.813
6/22/17 6:00	41.484	41.703	6/26/17 2:00	41.426	41.787
6/22/17 8:00	41.388	41.686	6/26/17 4:00	41.543	41.792
6/22/17 10:00	41.475	41.660	6/26/17 6:00	41.515	41.780
6/22/17 12:00	41.431	41.674	6/26/17 8:00	41.419	41.778
6/22/17 14:00	41.402	41.651	6/26/17 10:00	41.503	41.757
6/22/17 16:00	41.431	41.660	6/26/17 12:00	41.478	41.742
6/22/17 18:00	41.449	41.672	6/26/17 14:00	41.356	41.700
6/22/17 20:00	41.405	41.712	6/26/17 16:00	41.442	41.674
6/22/17 22:00	41.580	41.789	6/26/17 18:00	41.435	41.686
6/23/17 0:00	41.587	41.822	6/26/17 20:00	41.353	41.693
6/23/17 2:00	41.515	41.841	6/26/17 22:00	41.496	41.728

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/23/17 4:00	41.606	41.820	6/27/17 0:00	41.491	41.754
6/23/17 6:00	41.620	41.895	6/27/17 2:00	41.386	41.735
6/23/17 8:00	41.395	41.883	6/27/17 4:00	41.456	41.710
6/23/17 10:00	41.566	41.965	6/27/17 6:00	41.438	41.705
6/23/17 12:00	41.664	41.928	6/27/17 8:00	41.339	41.682
6/23/17 14:00	41.540	41.890	6/27/17 10:00	41.410	41.663
6/23/17 16:00	41.611	41.857	6/27/17 12:00	41.372	41.637
6/23/17 18:00	41.582	41.834	6/27/17 14:00	41.246	41.590
6/23/17 20:00	41.505	41.839	6/27/17 16:00	41.316	41.553
6/23/17 22:00	41.650	41.883	6/27/17 18:00	41.286	41.543
6/24/17 0:00	41.653	41.911	6/27/17 20:00	41.192	41.524
6/24/17 2:00	41.550	41.902	6/27/17 22:00	41.318	41.550
6/24/17 4:00	41.664	41.907	6/28/17 0:00	41.351	41.602
6/24/17 6:00	41.632	41.897	6/28/17 2:00	41.290	41.630
6/24/17 8:00	41.550	41.907	6/28/17 4:00	41.391	41.632
6/24/17 10:00	41.681	41.930	6/28/17 6:00	41.342	41.595
6/24/17 12:00	41.646	41.914	6/28/17 8:00	41.276	41.623
6/24/17 14:00	41.527	41.886	6/28/17 10:00	41.388	41.630
6/24/17 16:00	41.622	41.857	6/28/17 12:00	41.367	41.635
6/24/17 18:00	41.571	41.822	6/28/17 14:00	41.239	41.614
6/24/17 20:00	41.470	41.806	6/28/17 16:00	41.381	41.616
6/24/17 22:00	41.608	41.843	6/28/17 18:00	41.344	41.609
6/25/17 0:00	41.608	41.871	6/28/17 20:00	41.309	41.621
6/25/17 2:00	41.505	41.855	6/28/17 22:00	41.398	41.646
6/25/17 4:00	41.613	41.860	6/29/17 0:00	41.337	41.644
6/25/17 6:00	41.618	41.893	6/29/17 2:00	41.337	41.651
6/25/17 8:00	41.529	41.890	6/29/17 4:00	41.391	41.649
6/25/17 10:00	41.636	41.890	6/29/17 6:00	41.267	41.771
6/25/17 12:00	41.613	41.890	6/29/17 8:00	41.197	41.644
6/29/17 10:00	41.442	41.710			
6/29/17 12:00	41.374	41.700			
6/29/17 14:00	41.363	41.696			
6/29/17 16:00	41.426	41.703			
6/29/17 18:00	41.351	41.679			
6/29/17 20:00	41.353	41.691			
6/29/17 22:00	41.496	41.780			
6/30/17 0:00	41.262	41.667			
6/30/17 2:00	41.410	41.766			
6/30/17 4:00	41.487	41.771			
6/30/17 6:00	41.463	41.801			
6/30/17 8:00	41.491	41.846			
6/30/17 10:00	41.498	41.806			
6/30/17 12:00	41.456	41.815			
6/30/17 14:00	41.459	41.822			
6/30/17 16:00	41.480	41.794			
6/30/17 18:00	41.402	41.759			
6/30/17 20:00	41.391	41.759			

Table S11.1 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/30/17 22:00	41.475	41.782			

AGEM Team at Argonne

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