

LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 15 of 16

2011

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Prepared for

**Department of the Army
Longhorn Army Ammunition Plant**

1976 – 2011

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 15 of 16

2011

Note: Volume 15, Year 2011, Letter A is listed Out of Date in Sequence and should have been inserted in Year 2009.

- A. Title: Memorandum – Perchlorate Release Management Policy
Author(s): Office of the Under Secretary of Defense, Washington DC
Recipient: All Stakeholders
Date: April 22, 2009
Bate Stamp: 00111794 – 00111801
- B. Title: Report – Final Data Evaluation Report for LHAAP-65, Former Flammable Materials Storehouse, Longhorn Army Ammunition Plant, Karnack, Texas (June 17, 2011)
Author(s): U.S. Army
Recipient: All Stakeholders
Date: October 11, 2011
Bate Stamp: 00111802 – 00112667
- C. Title: Meeting Minutes – LHAAP Monthly Managers' Meeting
Author(s): Shaw Environmental, Inc., Houston, Texas
Recipient: All Stakeholders
Date: October 25, 2011
Bate Stamp: 00112668 – 00112677
- D. Title: Correspondence – Notification of Schedule Extension for Completion of LHAAP-29 Record of Decision, Longhorn Army Ammunition Plant, Karnack, Texas
Author(s): Dr. Rose M. Zeiler, Longhorn AAP Site Manager
Recipient: Mr. Stephen Tzhone, U.S. Environmental Protection Agency
Date: November 10, 2011
Bate Stamp: 00112678 – 00112678

***LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX***

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2011

- E. Title: Correspondence – Notification of Schedule Extension for Completion of LHAAP-29 Record of Decision, Longhorn Army Ammunition Plant, Karnack, Texas
 Author(s): Dr. Rose M. Zeiler, Longhorn AAP Site Manager
 Recipient: Ms. Fay Duke, Texas Commission on Environmental Quality
 Date: November 10, 2011
 Bate Stamp: 00112679 – 00112679
- F. Title: Meeting Minutes – LHAAP Monthly Managers' Meeting
 Author(s): Shaw Environmental, Inc., Houston, Texas
 Recipient: All Stakeholders
 Date: November 15, 2011
 Bate Stamp: 00112680 – 00112720
- G. Title: Meeting Minutes – LHAAP Monthly Managers' Meeting
 Author(s): Shaw Environmental, Inc., Houston, Texas
 Recipient: All Stakeholders
 Date: December 20, 2011
 Bate Stamp: 00112721 – 00112728



ACQUISITION
TECHNOLOGY
AND LOGISTICS

OFFICE OF THE UNDER SECRETARY OF DEFENSE
3000 DEFENSE PENTAGON
WASHINGTON, DC 20301-3000

APR 22 2009

MEMORANDUM FOR DEPUTY ASSISTANT SECRETARY OF THE ARMY
(ENVIRONMENT, SAFETY & OCCUPATIONAL
HEALTH)
DEPUTY ASSISTANT SECRETARY OF THE NAVY
(ENVIRONMENT)
DEPUTY ASSISTANT SECRETARY OF THE AIR
FORCE (ENERGY, ENVIRONMENT, SAFETY &
OCCUPATIONAL HEALTH)
DIRECTOR, DLA ENTERPRISE SUPPORT

SUBJECT: Perchlorate Release Management Policy

This memorandum updates policy on management of perchlorate releases at DoD installations, including operational ranges and Government Owned-Contractor Operated (GOCO) facilities, Base Realignment and Closure (BRAC) sites, and Formerly Used Defense Sites (FUDS) in the United States. This policy supersedes the previous perchlorate policies issued by this office listed in Attachment A.

Under the Defense Environmental Restoration Program (DERP) and the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), DoD has authority to undertake actions where deemed necessary to protect public health or the environment consistent with the National Oil and Hazardous Substances Spill Contingency Plan (NCP) at facilities under DoD jurisdiction or where the source of a release is from a DoD facility. These actions can span the spectrum from Preliminary Assessments/Site Inspections through Remedial Actions. As required by the NCP, DoD will comply with federal and state standards related to perchlorate that qualify as Applicable or Relevant and Appropriate Requirements (ARARs). It should be noted that promulgation of a Maximum Contaminant Level (MCL) or similar regulatory standard is not a precondition for sampling, assessing the risk from a release of a contaminant, or taking other actions.

On January 10, 2005, the National Research Council (NRC) of the National Academy of Sciences completed its toxicological review of perchlorate. Based on the results of the NRC review, the U.S. Environmental Protection Agency (EPA) adopted an oral reference dose (RfD) of 0.0007 mg/kg/day for perchlorate. On January 26, 2006, EPA issued guidance that recommended a preliminary remediation goal (PRG) for



perchlorate of 24.5 ppb in water. The PRG was defined as a Drinking Water Equivalent Level (DWEL) based on the RfD. On January 8, 2009, EPA withdrew its January 26, 2006, perchlorate assessment guidance and issued an Interim Drinking Water Health Advisory for exposure to perchlorate of 15 µg/L (or ppb) in drinking water. The interim health advisory level of 15 µg /L is different from the earlier DWEL of 24.5 ppb in that it incorporates exposure from food. The full Advisory is available at <http://www.epa.gov/safewater/contaminants/unregulated/perchlorate.html>.

Attachment B provides EPA's revised policy which recommends 15 µg/L (or 15 ppb) as the PRG for perchlorate when making site-specific CERCLA cleanup decisions where there is an actual or potential drinking water exposure pathway and where no ARARs exist under federal or state laws. However, where State regulations qualify as ARARs for perchlorate, the preliminary remediation goals established shall be developed considering the State regulations that qualify as ARARs, as well as other factors cited in the NCP (see 40 CFR 300.430(e)(2)(i)(A)).

The DUSD(I&E) memorandum of January 26, 2006 provided policy with respect to perchlorate sampling and established a "level of concern" of 24 ug/L (ppb). The stated level of concern was similar to a PRG in that it was used for site screening and to help identify the need for a site-specific human health risk assessment. To avoid any confusion, DoD will also use the term PRG for this policy and a PRG of 15 ppb for perchlorate as further described herein. Generally, while it is not anticipated that the PRG change will affect sampling requirements, there may be limited circumstances where additional sampling may be required.

DoD Components shall program resources and address perchlorate releases as follows:

Environmental Restoration

Perchlorate releases shall be addressed in the same manner as other contaminants of concern. For other than operational ranges, DoD Components shall conduct site-specific risk assessments and any necessary response actions in accordance with CERCLA, DERP, other applicable laws, and the NCP and consistent with the DoD relative ranking system for DERP sites. For operational ranges, DoD Components will assess for actual or potential off-range migration of perchlorate in their respective Operational Range Assessment programs consistent with DoDI 4715.14, "Operational Range Assessments."

Based on the EPA's Interim Drinking Water Health Advisory for perchlorate, the recommended PRG is 15 ppb where there is an actual or potential drinking water exposure pathway and where no ARARs exist under federal or state laws. The PRG may be used for initial screening of remedial alternatives and project scoping as described in

the NCP, the NCP preamble, and Risk Assessment Guidance for Superfund Volume I, Part B (EPA/540/R-92/003, Pub. 9285.7-01B, Dec. 1991). Unless modified by EPA in the Integrated Risk Information System (IRIS) database, the RfD of 0.0007 mg/kg/day is still appropriate for use in determining risk in site-specific human health risk assessments developed in accordance with the NCP.

DoD-owned Drinking Water Systems

DoD-owned drinking water systems that are required to sample for inorganic analytes pursuant to regulatory requirements shall add perchlorate to their current analyte list for at least two sampling events if they have not done so already. Installations with confirmed results that indicate the presence of perchlorate in finished drinking water shall notify their Major Command and consult with them on appropriate actions, which may include development of an action plan to reduce exposure to perchlorate as appropriate for the protection of public health. At a minimum, these installations shall continue sampling quarterly until they and their Major Command are satisfied that perchlorate concentrations are likely to remain below 15 ppb, an applicable state MCL, or a federal MCL, whichever is lowest.

Managers of DoD-owned drinking water systems that use sodium hypochlorite should be aware of studies reported by the American Water Works Association that surveyed sodium hypochlorite products used to treat drinking water. Perchlorate was found in more than 90% of production facilities sampled across North America that used these sodium hypochlorite products. Results also indicated a trend of increasing perchlorate concentration as the hypochlorite aged. The duration and conditions of storage can affect the levels of the perchlorate in a utility's hypochlorite supplies and ultimately its drinking water.

DoD Wastewater Effluent Discharges

At permitted point sources where use of perchlorate is associated with the manufacture, maintenance, processing, recycling, or demilitarization of military munitions, DoD Components shall sample for perchlorate for at least two semi-annual sampling events if they have not done so already. Sampling will be conducted in conjunction with effluent sampling conducted under the permit applicable to that point source. Installations with confirmed results that indicate perchlorate above 15 ppb in wastewater effluent discharges shall notify their Major Command and consult with them on appropriate actions. Depending on applicable water quality standards and other factors (e.g., mixing zones), permit modifications and follow-on actions may be required. Irrespective of current state permit requirements, risk management actions may be warranted to reduce perchlorate discharges to receiving water bodies. This policy does not require re-sampling where previous results were below 15 ppb. Nothing in this

policy is intended to diminish any requirements established by wastewater discharge permits issued by EPA or state regulatory authorities for DoD installations or operations.

Environmental Auditing

Components shall ensure that environmental auditing procedures for active installations, including GOCOs, include provisions for checking compliance with this policy and that all appropriate actions have been initiated, programmed, or determined to be not required under applicable laws and regulations.

Perchlorate Database

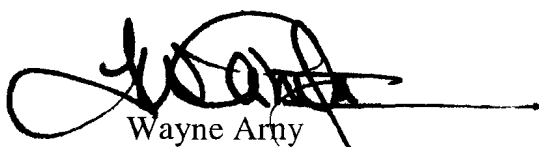
As a result of Congressional and regulatory agency concerns related to perchlorate, DoD developed a database for perchlorate sampling with a separate module managed by each Component. DoD Components shall ensure that all perchlorate sampling data, in all media, are entered into the database in accordance with applicable security requirements. Perchlorate sampling in all media shall be conducted in accordance with the DoD Perchlorate Handbook prepared by the DoD Environmental Data Quality Workgroup. Summary reports of sampling will be developed by DUSD(I&E) at the close of each fiscal year. In addition, draft state summaries and narratives will be developed by DUSD(I&E) based on annual data. DoD Components shall review and approve the state summaries before the summaries are posted on the DENIX web site

Funding

Environmental restoration actions related to perchlorate shall be funded under the DERP in accordance with DERP management guidance. For drinking water systems and wastewater effluent discharges, perchlorate sampling and follow-on actions taken pursuant to this policy will be considered an Environmental Quality Status Class I requirement under DoDI 4715.6, "Environmental Compliance."

At installations outside the United States, perchlorate issues will be addressed in accordance with DoDI 4715.5, *Management of Environmental Compliance at Overseas Installations*, DoDD 4715.12, *Environmental and Explosives Safety Management on Operational Ranges Outside the United States*, DoDI 4715.8, *Environmental Remediation for DoD Activities Overseas*, and DoD 4715.5-G, *Overseas Environmental Baseline Guidance Document*. Any resulting required sampling or follow-on actions will be considered an Environmental Quality Status Class I requirement.

My point of contact for any questions regarding this policy is Mr. Paul Yaroschak at (703) 604-0641, Paul.Yaroschak@osd.mil.



Wayne Army
Deputy Under Secretary of Defense
(Installations and Environment)

Attachments:
As stated

Superseded DUSD(&E) Perchlorate Policies

- ADUSD(E) memorandum of November 13, 2002, "Perchlorate Assessment Policy"
 - DUSD(I&E) memorandum of September 29, 2003, "Interim Policy on Perchlorate Sampling"
 - DUSD(I&E) memorandum of January 26, 2006, "Policy on DoD Required Actions Related to Perchlorate"
 - ADUSD(ESOH) memorandum of September 21, 2007, "Actions in Response to Perchlorate Releases"
-



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN -8 2009

MEMORANDUM

SUBJECT: Revised Assessment Guidance for Perchlorate

OFFICE OF
SOLID WASTE AND
EMERGENCY RESPONSE

FROM: Susan Parker Bodine
Assistant Administrator

A handwritten signature in dark ink, appearing to read "Susan Parker Bodine".

TO: Regional Administrators

On January 26, 2006, guidance was issued regarding perchlorate and the cleanup of sites under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Contingency Plan (National Contingency Plan (NCP)), 40 CFR Part 300; the January 2006 guidance recommended that Regions use a preliminary remediation goal (PRG) for perchlorate of 24.5 parts per billion (ppb or micrograms per liter [$\mu\text{g/L}$]) in water when making site-specific cleanup decisions.¹ The PRG was defined as a Drinking Water Equivalent Level based on EPA's reference dose (RfD) of 0.7 micrograms per kilogram body weight per day ($\mu\text{g/kg-day}$); the RfD remains an appropriate "to be considered" (TBC) value in accordance with the NCP. However, since the NCP provides that "preliminary remediation goals should be modified, as necessary, as more information becomes available during the RI/FS (remedial investigation/feasibility study)," the January 2006 guidance also made clear that the PRG at any site should be evaluated on a case-by-case basis, and modified accordingly, based on site-specific information, including actual and potential exposure routes, including contributions from non-water sources.

The Agency has now issued an Interim Drinking Water Health Advisory (Interim Health Advisory) for exposure to perchlorate of 15 $\mu\text{g/L}$ in water, a copy of which can be obtained at <http://www.epa.gov/safewater/contaminants/unregulated/perchlorate.html>. (A health advisory provides technical guidance to federal, state, and other public health officials on health effects, analytical methods and treatment technologies associated with drinking water contamination.) The Interim Health Advisory for perchlorate was developed using EPA's RfD and representative body weight, as well as 90th percentile drinking water and national food exposure data for pregnant women in order to protect the most sensitive population identified by the National Research Council (NRC) (i.e., the fetuses of pregnant women who might have hypothyroidism or iodide deficiency). See "Health Implications of Perchlorate Ingestion."² The interim health advisory level of

¹ PRGs are specific statements of desired endpoint concentrations of risk levels (55 FR 8713, March 8, 1990) that are conservative, default endpoint concentrations used in screening and initial development of remedial alternatives before consideration of information from site-specific risk assessments.

² NRC 2005. Health Implications of Perchlorate Ingestion, National Research Council of the National Academy of Sciences, National Academies Press, Washington D.C.

15 ug/L is thus different from the earlier DWEL of 24.5 ug/L in that it incorporates exposure from food. Infants and developing children were also identified as sensitive sub-populations by the NRC. Therefore, the Agency also evaluated these other sub-populations and concluded that the Interim Health Advisory of 15 µg/L derived for pregnant women is also an appropriate interim Health Advisory for these other sub-populations.

The NCP (40 CFR 300.430(e)(2)(A)(1)) provides that when establishing acceptable exposure levels for use as remediation goals, consideration must be given to concentration levels to which the human population, including sensitive subgroups, may be exposed without adverse effects over a lifetime or part of a lifetime, incorporating an adequate margin of safety. As a result of the publication of the Interim Health Advisory for perchlorate, I am formally withdrawing the January 26, 2006 guidance recommending a PRG of 24.5 ppb for perchlorate. In its place, this memorandum now recommends that where no federal or state applicable or relevant and appropriate (ARAR) requirements exist under federal or state laws, 15 µg/L (or 15 ppb) is recommended as the PRG for perchlorate when making CERCLA site-specific cleanup decisions where there is an actual or potential drinking water exposure pathway. However, where State regulations qualify as ARARs for perchlorate, the remediation goals established shall be developed considering the State regulations that qualify as ARARs, as well as other factors cited in the NCP (see 40 CFR 300.430(e)(2)(i)(ff)).

Final remediation goals and remedy decisions are made in accordance with 40 CFR 300.430 (e) and (f) and associated provisions.

If you have further questions regarding the applicability of this memorandum please contact Jayne Michaud at (703) 603-8847.

cc: Superfund Division Directors
Superfund Regional National Policy Managers
Barry Breen
James Woolford
Matt Hale
David Lloyd
John Reeder
Barnes Johnson
Gailann Cooper
Elizabeth Southerland
Jayne Michaud
Ellen Manges



DEPARTMENT OF THE ARMY
LONGHORN ARMY AMMUNITION PLANT
POST OFFICE BOX 220
RATCLIFF, AR 72951

October 11, 2011

DAIM-ODB-LO

Mr. Stephen Tzhone
US Environmental Protection Agency
Superfund Division (6SF-AT)
1445 Ross Avenue
Dallas, TX 75202-2733

Re: Final Data Evaluation Report for LHAAP-65, Former Flammable Materials Storehouse,
Longhorn Army Ammunition Plant, Karnack, Texas, June 2011

Dear Mr. Tzhone,

The above-referenced document is being transmitted to you for your records. The document has been prepared by the U.S. Army Corps of Engineers, Tulsa District.

The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.zeiler@us.army.mil.

Sincerely,

A handwritten signature in black ink, reading "Rose M. Zeiler", is positioned below the word "Sincerely,".

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

Copies furnished:

F. Duke, TCEQ, Austin, TX
D. Vodak, TCEQ, Tyler, TX
P. Bruckwicki, Caddo Lake NWR, TX
J. Lambert, USACE, Tulsa District, OK
A. Williams, USACE, Tulsa District, OK
M. Plitnik, USAEC, San Antonio, TX
P. Srivastav, Shaw – Houston, TX (for project files)



DEPARTMENT OF THE ARMY
LONGHORN ARMY AMMUNITION PLANT
POST OFFICE BOX 220
RATCLIFF, AR 72951

October 11, 2011

DAIM-ODB-LO

Ms. Fay Duke (MC-136)
SSDAT/Superfund Section
Remediation Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg D
Austin, TX 78753

Re: Final Data Evaluation Report for LHAAP-65, Former Flammable Materials Storehouse,
Longhorn Army Ammunition Plant, Karnack, Texas, June 2011
SUP 126

Dear Ms. Duke,

The above-referenced document is being transmitted to you for your records. The document has been prepared by the U.S. Army Corps of Engineers, Tulsa District.

The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.zeiler@us.army.mil.

Sincerely,

A handwritten signature in black ink, reading "Rose M. Zeiler", is positioned below the word "Sincerely,".

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

Copies furnished:

S. Tzhone, USEPA Region 6, Dallas, TX
D. Vodak, TCEQ, Tyler, TX
P. Bruckwicki, Caddo Lake NWR, TX
J. Lambert, USACE, Tulsa District, OK
A. Williams, USACE, Tulsa District, OK
M. Plitnik, USAEC, San Antonio, TX
P. Srivastav, Shaw, Houston, TX (for project files)

FINAL
DATA EVALUATION REPORT FOR LHAAP-65
FORMER FLAMMABLE MATERIALS STOREHOUSE
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS



Prepared By
U.S. Army Corps of Engineers
Tulsa District
1645 South 101st East Avenue
Tulsa, Oklahoma



17 June 2011

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Figure 1 Site Location Map

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Appendix 1 Site Photos

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Appendix 4 Data Quality Review

**FINAL DATA EVALUATION REPORT FOR LHAAP-65
FORMER FLAMMABLE MATERIAL STOREHOUSE**

**LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS**

1. INTRODUCTION

The Longhorn Army Ammunition Plant (LHAAP) is located in central-east Texas in the northeastern corner of Harrison County. The installation occupied nearly 8,416 acres between State Highway 43 at Karnack, Texas and the western shore of Caddo Lake. The nearest cities are Marshall, Texas, 14 miles to the southwest, and Shreveport, Louisiana, about 40 miles to the southeast (see Figure 1 – Site Location Map).

Caddo Lake, a large freshwater lake situated on the Texas-Louisiana border, bounds LHAAP to the north and east. The U.S. Army has transferred 7,000 acres to the U.S. Fish and Wildlife Service (USFWS) for management as the Caddo Lake National Wildlife Refuge. The property transfer process is continuing as restoration is implemented at individual sites.

2. SITE DESCRIPTION

The former flammable materials storehouse is currently an approximately 60-foot by 80-foot concrete slab, located 130 feet northeast of the intersection of former 11th and 6th Streets in the northwest portion of LHAAP (see Figure 2 – Site Vicinity Map). The site was identified in the Defense Environmental Restoration Program Management Information System (DERPMIS) dated April 1996. The DERPMIS describes the area as "... a Flammable Materials Storehouse constructed in 1982 and had 4,930 square feet of floor area. The building was used for storage of chemicals such as paint and solvents. The building had a concrete floor with drains connected to sumps."

The building structure was removed in 2005. An inspection of the remaining foundation in November 2008 revealed floor gutters on the northeast and southwest side of the foundation. Each gutter drains into a concrete vault (sump) having internal measurements of 6 feet long, 3 feet wide and 3 feet deep (see Figure 3 – Plot Plan). The gutters have collected organic material and litter. Each vault holds approximately 400 gallons. The vault on the northeast side of the building was uncovered, filled with water, and is uncompromised. The vault on the southwest side of the building was covered with a steel lid. The concrete pad and surrounding area are littered with metal bolts and other metal scrap (see Appendix 1 – Site Photos).

3. FIELD INVESTIGATION

The United States Army Corps of Engineers (USACE) collected surface soil samples and sump water samples in accordance with the approved sampling plan (USACE, Site-Specific Sampling and Analysis Plan, 4 June 2010).

3.1 Methods

The sampling event was conducted as proposed in the Sampling Plan (USACE, Site-Specific Sampling and Analysis Plan, 4 June 2010) and in accordance with Site-wide QAPP (Sverdrup, Sampling and Data Results Report for the Group 4 Sites, Phase III, Remedial Investigation/Feasibility Study, May 1999). Surface soil samples were collected using a stainless steel hand shovel except for the volatile organic compounds (VOCs) sample. The soil samples collected for VOCs analysis were collected using a terra core sampler provided by the laboratory to meet the Environmental Protection Agency (EPA) Method 5035 standards.

Sump water samples were collected using a disposable bailer. A new bailer was immersed in each sump to collect a sample. Water was transferred from the bailer to sample containers.

3.2 Sample Locations

Surface soil sample SS1 and SS1 duplicate were collected 2 feet south of the northeast sump. Surface soil sample SS2 was collected 2 feet north of the northeast sump. Surface soil sample SS3 was collected 3 feet south of the southwest sump. Surface soil sample SS4 was collected 2 feet north of the southwest sump (see Figure 3 and Appendix 1).

The sump water sample NE Sump was collected from the sump on the northeast side of the concrete pad. The sump water sample SW Sump was collected from the sump on the southwest side of the concrete pad. The southwest sump had a metal lid that was pried off for sampling. The sumps were full of water (see Figure 3 and Appendix 1).

4. SAMPLE RESULTS AND EVALUATION

4.1 Soil Samples

Soil samples were silty sand with trace gravel. The sand was fine grain, dark brown to light brown, very dense, rounded to subrounded grains, and dry. The gravel was a dark brown, maximum of 0.5 inch diameter, well rounded quartzite.

The metals results are presented in Table 1 and compared with Texas Risk Reduction Standard No. 2 MSC SAI-Ind levels. Only Mercury in soil sample SS3 was reported above the MSCs. The Mercury concentration is 620J µg/Kg.

All other metals in the soil samples were below the MSCs (See Appendix 2 – Laboratory Analytical Report; Appendix 3 – Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations [MSCs]).

The VOC results are presented in Table 2. No VOCs were reported above the MSCs (see Appendix 2 and 3).

The semi-volatile organic compounds (SVOCs) results are presented in Table 3. No SVOCs were reported above the MSCs (see Appendix 2 and 3).

Perchlorate and explosives were not reported in any of the soil samples. No tables are presented (see Appendix 2 and 3).

4.2 Water Samples

The water in the sumps was stagnant with insects and algae on the surface. The water collected with the bailer was slightly turbid. Very little silt was suspended at the bottom of the sump. The northeast sump without a lid had an accumulation of pine needles on the bottom. There was no unusual odor from the water.

The metals results are presented in Table 4. No metals were reported above the MSCs (see Appendix 2 and 3).

The VOC results are presented in Table 5. No VOCs were reported above the MSCs (see Appendix 2 and 3).

SVOCs, perchlorate, and explosives were not reported in any of the water samples. No tables are presented (see Appendix 2 and 3).

Attachment 4 includes a Data Quality Review of the laboratory data provided in Attachment 3.

5. LHAAP-65 RISK EVALUATION

The Baseline Human Health Risk Assessment for Site 49 (Jacobs, 2002) was used as a model for evaluating risk at LHAAP-65. Risk was only evaluated for mercury since mercury was the only constituent detected above the MSC at LHAAP-65. The most conservative exposure assessment was calculated for the site using the maximum detected concentration of mercury (0.62 mg/kg) for the exposure point concentration (EPC) and use of reasonable maximum exposure (RME) assumptions. Typically the EPC is calculated for each data set based on the 95 percent upper confidence limit (UCL) concentration of the arithmetic mean of the log transformed data using an equation recommended by the EPA (EPA, 1992). The 95 percent UCL calculation would produce a lower EPC for LHAAP-65 which would result in a lower Hazard Index (HI) than the HIs calculated below. Insufficient data exists however to calculate a 95% UCL and corresponding EPC. See table 6 and table 7 for calculated exposure doses. A summary of the noncancer HI risk calculated for LHAAP-65 is presented below.

5.1 Noncancer HIs

Current Trespasser. The Hazard Quotients (HQs) and HI calculated for the current trespasser based on exposure to soil at Site 65 are presented in Table 8.

A total HI of 0.0006 is calculated for the current trespasser. This HI is below the benchmark of 1.

Future Maintenance Worker (Soil Exposure- 0 to 0.5 feet bgs). The HQs and HI calculated for the future maintenance worker based on exposure to soil (0 to 0.5 feet bgs) at LHAAP-65 are presented in Table 9. A total HI of 0.004 is calculated for the future maintenance worker. This HI is below the benchmark of 1.

6. SUMMARY AND CONCLUSIONS

Sampling at LHAAP-65 was performed on August 5th, 2010. Surface soil samples were collected between 2 and 3 feet from each sump. Water samples were collected from each sump. Analytical results indicate the surface soil south of the southwest sump contains mercury at a level of 620J ug/Kg, which is above the MSC. A risk evaluation was conducted for the mercury detection and risk was determined to be acceptable. The sumps do not leak and results of the water analysis indicate the sumps and water do not contain reportable levels of analytes. There is no indication of VOC, SVOC, perchlorate, or explosive contamination in soil or water. Also, there are no elevated levels of metals in the sump waters. Based on these results, no further action is recommended for LHAAP-65.

7. REFERENCES

EPA, 1992. Supplemental Guidance to RAGS: Calculating the Concentration Term, Publication 9285.7-081, Office of Solid Waste and Emergency Response, Washington, DC.

Jacobs, 2002. Baseline Human Health and Screening Ecological Risk Assessment, Volume 1: Report, Group 2 Sites, Sites 12, 17, 18/24, 29, 32, 49, Harrison Bayou and Caddo Lake, Longhorn Army Ammunition Plant, Karnack, Texas, August.

TABLES

**Table 1 Soil Laboratory Metals Analysis Summary
Longhorn Army Ammunition Plant
Former Flammable Materials Storehouse
(LHAAP-65)**

SAMPLE ID	SAMPLE DATE	Arsenic ug/Kg	Barium ug/Kg	Cadmium ug/Kg	Chromium ug/Kg	Lead ug/Kg	Selenium ug/Kg	Silver ug/Kg	Mercury ug/Kg
MSC ¹		2.0E+05	1.7E+08	1.5E+06	3.50E+08	1.00E+06	9.30E+06	2.90E+06	1.50E+02
SS1	5-Aug-10	6,500	47,000	2,600 Q	11,000 Q	18,000	560	100 Q	64
SS1-Dupe	5-Aug-10	6,100	48,000	2,800 Q	15,000 Q	26,000	300 J	83 JQ	62
SS2	5-Aug-10	5,500	43,000	6,000 Q	16,000 Q	34,000	530	580 Q	47
SS3	5-Aug-10	5,500	51,000	990 Q	9,700 Q	20,000	680	280 Q	620 J
SS4	5-Aug-10	7,900	62,000	4,400 Q	11,000 Q	21,000	750	420 Q	58

1 Risk Reduction Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs), SAI-Ind, last updated March 31, 2006.

J Estimated: The analyte was positively identified; the quantitation is an estimation.

J Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

Q One or more quality control criteria failed.

U Undetected at the Limit of Detection.

Shaded result exceeds the MSC.

**Table 2 Soil Laboratory VOCs Analysis Summary
Longhorn Army Ammunition Plant
Former Flammable Materials Storehouse
(LHAAP-65)**

SAMPLE ID	SAMPLE DATE	2- Butanone (MEK) ug/Kg	4-Isopropyl toluene (Cymene) ug/Kg	Acetone ug/Kg	cis-1,2- Dichloro ethene (ethylene) ug/Kg
MSC ¹		4.2E+07	6.7E+06	2.5E+06	2.5E+06
SS1	5-Aug-10	<11 U	3.5 J	14 J	0.89 J
SS1-DUPE	5-Aug-10	<7.8 U	1.0 J	17	2.8 J
SS2	5-Aug-10	<9.4 U	5.6	14 J	1.9 J
SS3	5-Aug-10	<14 U	14	14 J	<1.4 U
SS4	5-Aug-10	3.4 J	1.8 J	35	<0.69 U

1 Risk Reduction Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs), SAI-Ind, last updated March 31, 2006.

J Estimated: The analyte was positively identified; the quantitation is an estimation.

U Undetected at the Limit of Detection.

**Table 3 Soil Laboratory SVOCs Analysis Summary
Longhorn Army Ammunition Plant
Former Flammable Materials Storehouse
(LHAAP-65)**

SAMPLE ID	SAMPLE DATE	Benzo[a] anthracene ug/Kg	Benzo[a] pyrene ug/Kg	Benzo[b] fluoranthene ug/Kg	Benzo[g,h,i] perylene ug/Kg	Benzoic Acid ug/Kg	Bis(2-ethylhexyl) phthalate ug/Kg	Chrysene ug/Kg	Fluoranthene ug/Kg	Indeno[1,2,3-cd] pyrene ug/Kg	Pyrene ug/Kg
MSC ¹		3.4E+03	3.4E+02	3.4E+03	2.7E+07	4.1E+09	6.5E+04	3.4E+05	3.6E+07	3.4E+03	2.7E+07
SS1	5-Aug-10	<38 U	<38 U	<38 U	<38 U	<760 UQ	<76 U	<38 U	<76 U	<38 U	<38 U
SS1-DUPE	5-Aug-10	<35 U	<35 U	<35 U	<35 U	<690 UQ	56 J	<35 U	<35 U	<35 U	<35 U
SS2	5-Aug-10	<34 U	<34 U	<35 U	17 J	<680 UQ	<68 U	<34 U	<68 U	<34 U	22 J
SS3	5-Aug-10	32 J	26 JM	72 JK	24 JM	450 JQ	110 J	42 J	45 J	<37 U	47 J
SS4	5-Aug-10	30 J	26 JM	85 JK	27 JM	<710 UQ	970	44 J	54 J	24 JM	50 J

1 Risk Reduction Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs), SAI-Ind, last updated March 31, 2006.

J Estimated: The analyte was positively identified; the quantitation is an estimation.

K Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.

M Manual integrated compound.

Q One or more quality control criteria failed.

U Undetected at the Limit of Detection.

**Table 4 Water Laboratory Metals Analysis Summary
Longhorn Army Ammunition Plant
Former Flammable Materials Storehouse
(LHAAP-65)**

SAMPLE ID	SAMPLE DATE	Arsenic ug/L	Barium ug/L	Cadmium ug/L	Chromium ug/L	Lead ug/L	Selenium ug/L	Silver ug/L	Mercury ug/L
MSC ¹		1.0E+01	2.0E+03	5.0E+00	1.00E+02	1.50E+01	5.00E+01	5.10E+02	2.00E+00
NE Sump	5-Aug-10	0.36 J	27	0.56 JQ	<1.5 UQ	0.50 J	<2.0 U	0.029 J	<0.080 U
SW Sump	5-Aug-10	0.57 J	24	<0.12 UQ	<1.5 UQ	<0.50 U	<2.0 U	<0.045 U	0.035 J
Rinsate	5-Aug-10	<0.60	1.5 J	0.16 JQ	<1.5 UQ	0.30 J	<2.0 U	0.018 J	<0.080

1 Risk Reduction Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs), GW-IND, last updated March 31, 2006.

J Estimated: The analyte was positively identified; the quantitation is an estimation.

J Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

Q One or more quality control criteria failed.

U Undetected at the Limit of Detection.

**Table 5 Water Laboratory VOCs Analysis Summary
Longhorn Army Ammunition Plant
Former Flammable Materials Storehouse
(LHAAP-65)**

SAMPLE ID	SAMPLE DATE	1,2,4-Trimethylbenzne ug/L	Acetone ug/L	Methylene Chloride ug/L	Toluene ug/L
MSC ¹		5.1E+03	9.2E+04	5.0E+00	1.00E+03
NE Sump	5-Aug-10	<0.20 U	<6.4 U	0.61 J	<0.40 U
SW Sump	5-Aug-10	<0.20 U	1.9 J	0.36 J	<0.40 U
Rinsate	5-Aug-10	0.15 J	4.0 J	0.38 J	0.31 J
Trip Blank	5-Aug-10	<0.20 U	<0.20 U	0.42 J	<0.40 U

1 Risk Reduction Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs), GW-IND, last updated March 31, 2006.

J Estimated: The analyte was positively identified; the quantitation is an estimation.

Table 6
RME
Summary of Exposure Doses (Noncancer Effects)
Current Trespasser- LHAAP-65 - Exposure To On-Site Soil
(0 to 0.5 Feet)

Chemical	Incidental Ingestion Soil (0 to 0.5 ft) (mg/kg-day)	Dermal Contact Soil (0 to 0.5 ft) (mg/kg-day)	Inhalation of Particulates Soil (0 to 0.5 ft) (mg/m3)
Mercury	1.2E-07	4.2E-09	1.8E-11

Table 7
RME
Summary of Exposure Doses (Noncancer Effects)
Future Maintenance Worker- LHAAP-65 - Exposure To On-Site Soil
(0 to 0.5 Feet)

Chemical	Incidental Ingestion Soil (0 to 0.5 ft) (mg/kg-day)	Dermal Contact Soil (0 to 0.5 ft) (mg/kg-day)	Inhalation of Particulates Soil (0 to 0.5 ft) (mg/m3)
Mercury	6.1E-07	3.88E-08	9.17E-11

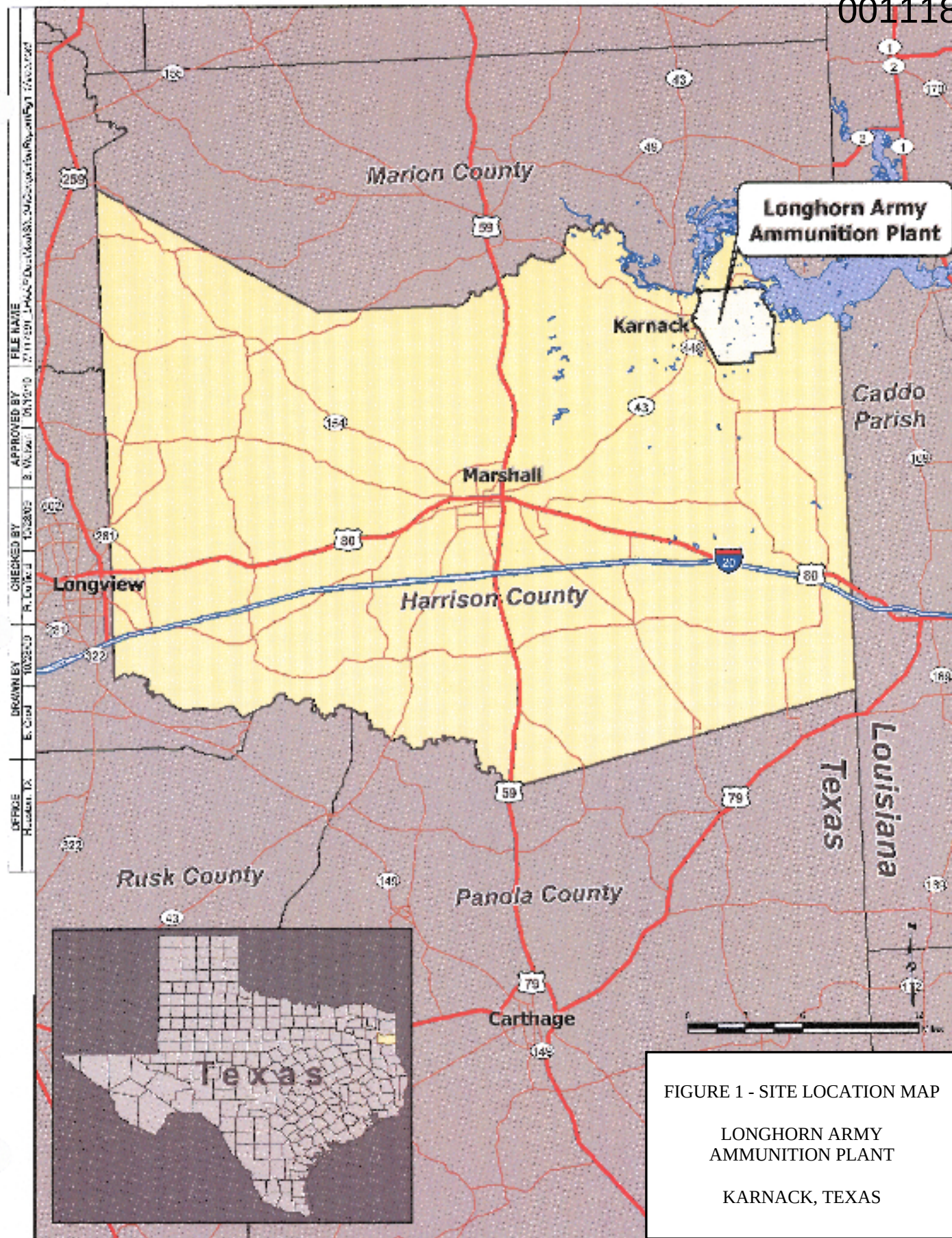
Table 8
RME
Summary of Hazard Quotients and Index
Current Trespasser- LHAAP-65 - Exposure To On-Site Soil
(0 to 0.5 Feet)

Chemical	Incidental Ingestion Soil (0 to 0.5 ft) (mg/kg-day)	Dermal Contact Soil (0 to 0.5 ft) (mg/kg-day)	Inhalation of Particulates Soil (0 to 0.5 ft) (mg/m3)	Total Hazard Index
Mercury	4.0E-04	2.0E-04	6.11E-08	6.0E-04

Table 9
RME
Summary of Hazard Quotients and Index
Future Maintenance Worker- LHAAP-65 - Exposure To On-Site
Soil (0 to 0.5 Feet)

Chemical	Incidental Ingestion Soil (0 to 0.5 ft) (mg/kg-day)	Dermal Contact Soil (0 to 0.5 ft) (mg/kg-day)	Inhalation of Particulates Soil (0 to 0.5 ft) (mg/m3)	Total Hazard Index
Mercury	2.0E-03	1.8E-03	3.05E-07	3.8E-03

FIGURES



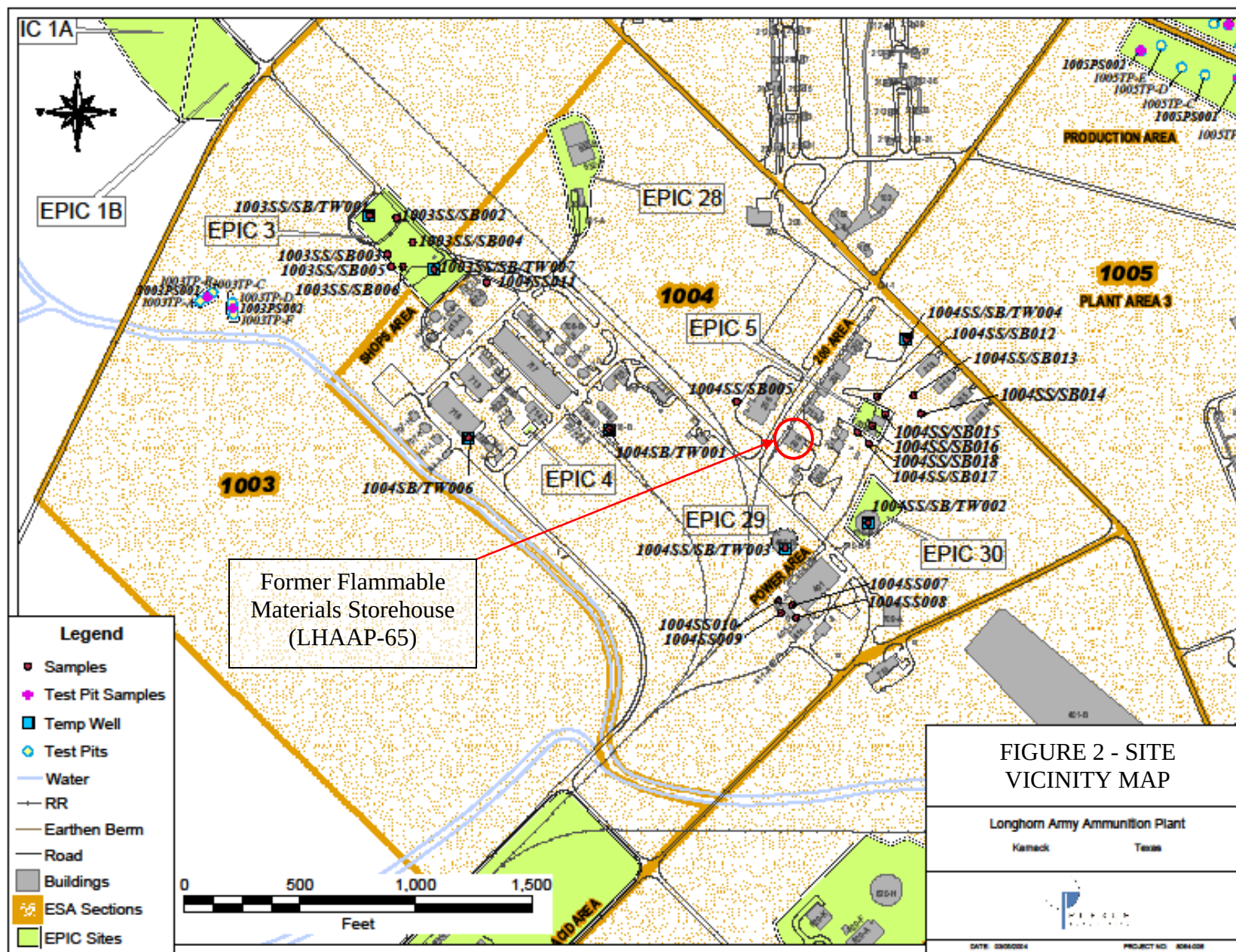
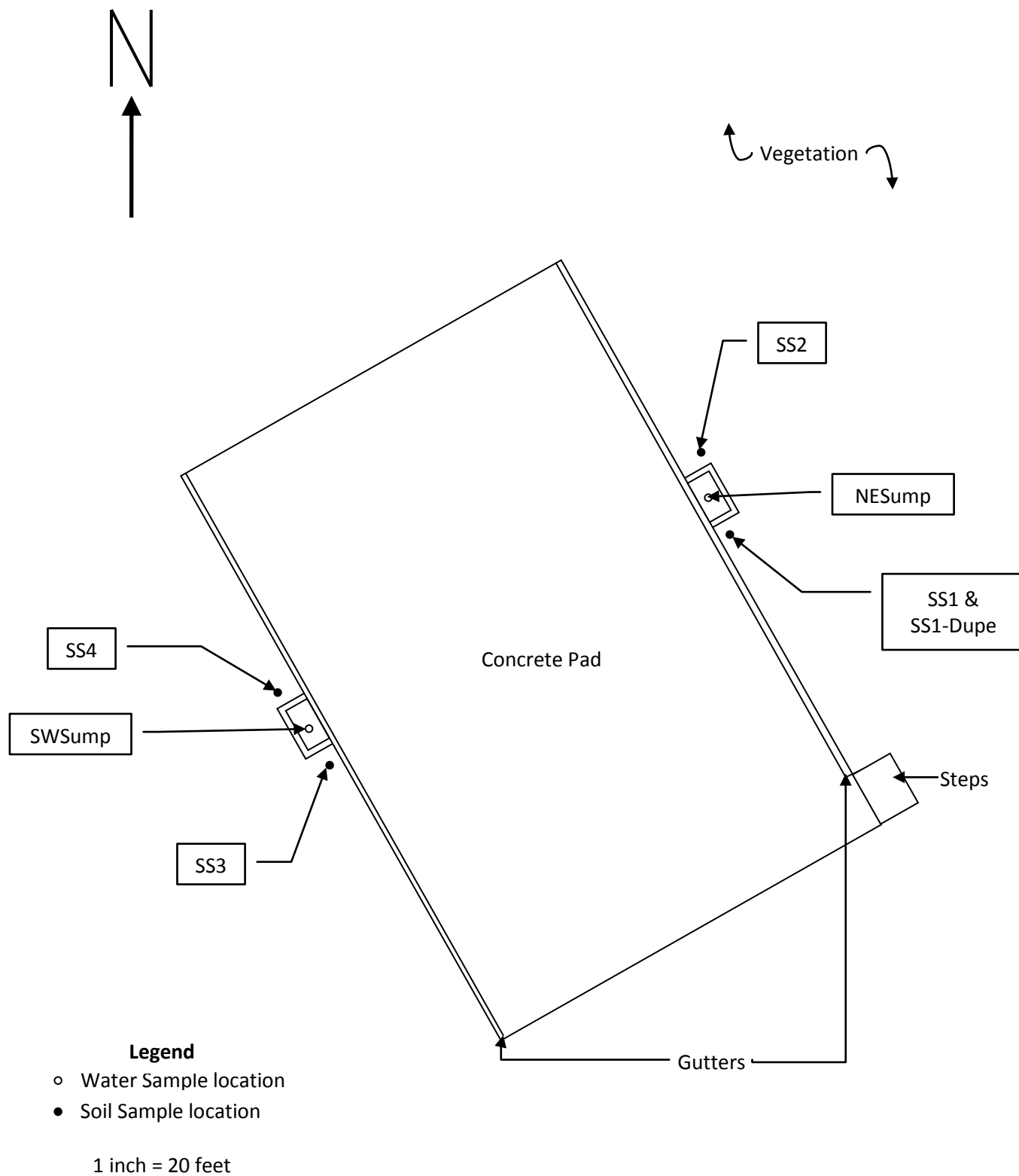


**Figure 3 Plot Plan
LHAAP-65**



APPENDIX 1
SITE PHOTOS



Photo 1

North
East
Sump



Photo 2

South
West
Sump



Photo 3

Soil Sample
SS1 Location



Photo 4

Soil Sample
SS2 Location



Photo 5

Soil Sample
SS3 Location



Photo 6

Soil Sample
SS4 Location



Photo 7

Concrete
Pad

APPENDIX 2
LABORATORY ANALYTICAL REPORT

ANALYTICAL REPORT

Job Number: 280-6075-1

Job Description: Longhorn Army Ammunition Plant, Karnack,

For:

U.S. Army Corps of Engineers
E&C Div. HTRW Design Center
USAED Tulsa 1645 S 101st Avenue
Tulsa, OK 74128

Attention: Aaron K Williams



Approved for release.
Elaine Walker
Project Manager I
10/1/2010 4:07 PM

Elaine Walker
Project Manager I
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10/01/2010
Revision: 1

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

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CASE NARRATIVE**Client: U.S. Army Corps of Engineers****Project: Longhorn Army Ammunition Plant, Karnack,****Report Number: 280-6075-1**

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

Nine samples were received on 08/06/2010; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.1oC and 4.7oC.

One of two 1-Liter amber glass bottles were received broken for samples NE-SUMP (280-6075-5) and RINSATE (280-6075-7). Sufficient volume remains to perform the requested analyses. The client was informed via email on 8/6/10.

VOLATILE ORGANIC COMPOUNDS (GC-MS) - SOIL

Samples SS1- (280-6075-1), SS2- (280-6075-2), SS3- (280-6075-3), SS4- (280-6075-4) and SS1-DUP- (280-6075-8) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 08/02/2010 and analyzed on 08/12/2010.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS) - WATER

Samples NE SUMP- (280-6075-5), SW SUMP- (280-6075-6), RINSATE (280-6075-7) and TRIP BLANK (280-6075-9) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/11/2010.

Methylene Chloride was detected in method blank MB 280-26526/4 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - SOIL

Samples SS1- (280-6075-1), SS2- (280-6075-2), SS3- (280-6075-3), SS4- (280-6075-4) and SS1-DUP- (280-6075-8) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/10/2010 and analyzed on 08/17/2010.

Benzo(b)fluoranthene and Benzo(k)fluoranthene are unresolved due to matrix. The results were reported as Benzo(b)fluoranthene, and the Benzo(b)fluoranthene and Benzo(k)fluoranthene results have been flagged "K".

The laboratory control sample duplicate (LCSD) for prep batch 280-26179 exceeded control limits as detailed below. Since the LCS was 100% within control, the data will be reported with appropriate flags, as holding times are now expired.

Accuracy failure: LCSD for 4,6-Dinitro-2-methylphenol = 23% (limits 30-120%)

RPD failures:

2,4-Dinitrophenol = 54% (upper limit 34%)

4,6-dinitro-2-methylphenol = 63% (upper limit 30%)

Benzoic Acid = 71% (upper limit 32%)

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - WATER

Samples NE SUMP- (280-6075-5), SW SUMP- (280-6075-6) and RINSATE (280-6075-7) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 08/07/2010 and 08/23/2010 and analyzed on 08/19/2010 and 08/28/2010.

Several analytes were detected in method blank MB 280-28094/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

1,2,4-Trichlorobenzene, 2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene and Dibenzofuran failed the recovery criteria low for LCS 280-25954/2-A. 2-Chloronaphthalene, Acenaphthene, Acenaphthylene and Dibenzofuran exceeded the RPD limit for LCSD 280-25954/17-A. The samples were submitted for re-extraction and reanalyzed. The reanalysis yielded acceptable LCS control criteria; however, because the samples were outside the hold time, the results for both sets of data have been reported, with the reanalysis data flagged "H".

The surrogate recovery (2-Fluorobiphenyl = 25% with limits of 50-110%) for the blank associated with prep batch 280-25954 was outside recovery limits. All associated sample surrogates fell within acceptance criteria; however, the LCS/LCSD had numerous failures. Therefore, the samples were submitted for re-extraction. There was no volume to re-extract samples 6075-5 and -7, but sample -6 was re-extracted out of hold. Both sets of results have been reported.

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

EXPLOSIVES - SOIL

Samples SS1- (280-6075-1), SS2- (280-6075-2), SS3- (280-6075-3), SS4- (280-6075-4) and SS1-DUP- (280-6075-8) were analyzed for explosives in accordance with EPA SW-846 Method 8330B. The samples were leached on 08/10/2010, prepared on 08/13/2010 and analyzed on 08/16/2010 and 08/17/2010.

No difficulties were encountered during the explosives analyses.

All quality control parameters were within the acceptance limits.

EXPLOSIVES - WATER

Samples NE SUMP- (280-6075-5), SW SUMP- (280-6075-6) and RINSATE (280-6075-7) were analyzed for explosives in accordance with EPA SW-846 Method 8330B. The samples were prepared on 08/09/2010 and analyzed on 08/12/2010 and 08/13/2010.

4-Amino-2,6-dinitrotoluene was detected in method blank MB 280-26077/5-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. The confirmation column had a hit for 4-amino-2,6-dinitrotoluene. This compound was not reported from this column. The compound was reported ND on the primary column.

The Surrogate recovery for the following sample was outside the upper control limit: RINSATE (280-6075-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis were not performed. The confirmation column was high for 1,2-Dinitrobenzene at 127%-limits 75-118%. The primary column was within limits, some compounds reported as ND from confirmation column.

1,2-Dinitrobenzene failed the surrogate recovery criteria high for LCSD 280-26077/9-A. The percent recovery was outside control limits for the LCSD for 3,5-Dinitroaniline at 119%. The LCSD recoveries were within control limits.

The continuing calibration verification (CCV) associated with batch 280-26077 was outside %D criteria for the individual peaks used for the quantitation of 2,4-dinitrotoluene. The average %D was in control for this analyte; therefore, corrective action was not performed. 2,4-dinitrotoluene was out at 16%+ in the opening CCV, and the samples were ND for this compound.

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

PERCHLORATE - SOIL

Samples SS1- (280-6075-1), SS2- (280-6075-2), SS3- (280-6075-3), SS4- (280-6075-4) and SS1-DUP- (280-6075-8) were analyzed for Perchlorate in accordance with EPA Method 6860. The samples were prepared on 08/13/2010 and analyzed on 08/17/2010 and 08/18/2010.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 27344 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

6075-8 MS = 130%, with limits of 70-130%
6075-8 MSD = 136%, with limits of 70-130%

No other difficulties were encountered during the Perchlorate analyses.

All other quality control parameters were within the acceptance limits.

PERCHLORATE - WATER

Samples NE SUMP- (280-6075-5), SW SUMP- (280-6075-6) and RINSATE (280-6075-7) were analyzed for Perchlorate in accordance with SW846 6860. The samples were analyzed on 08/22/2010.

No difficulties were encountered during the Perchlorate analyses.

All quality control parameters were within the acceptance limits.

METALS (ICPMS) - SOIL

Samples SS1- (280-6075-1), SS2- (280-6075-2), SS3- (280-6075-3), SS4- (280-6075-4) and SS1-DUP- (280-6075-8) were analyzed for metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 08/17/2010 and analyzed on 08/18/2010.

Chromium and Lead were detected in method blank MB 280-26825/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The MS and MSD for prep batch 280-26825 were outside the established control limits for barium, manganese, antimony, and zinc. The matrix sample was flagged "J". The associated laboratory control sample (LCS) recovery met acceptance criteria.

The serial dilution and post digestion spike were in control for the requested elements. All of the samples in the batch were below 50x the respective LODs for silver, arsenic, beryllium, antimony, selenium, and thallium, so the PDS is applicable for those elements. There were samples within the batch that were over 50x the respective LODs for cadmium, barium, cobalt, chromium, copper, manganese, nickel, lead, vanadium, and zinc, and so the PDS is not applicable.

The ICSA solution used as the ICP-MS interference check standard shows results for several metals at levels above the DoD acceptance limits (>LOD). For prep batch 27511 the initial ICSA solution was above the DoD acceptance limits for cadmium, cobalt, chromium, nickel, antimony, and thallium. We believe the solution contains trace impurities of these elements and that the results are not artifacts of matrix interference. These results agree with those found by the manufacturer of the ICSA solution.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

MERCURY (CVAA) - SOIL

Samples SS1- (280-6075-1), SS2- (280-6075-2), SS3- (280-6075-3), SS4- (280-6075-4) and SS1-DUP- (280-6075-8) were analyzed for mercury (CVAA) in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 08/16/2010.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

METALS (ICPMS) - WATER

Samples NE SUMP- (280-6075-5), SW SUMP- (280-6075-6) and RINSATE (280-6075-7) were analyzed for metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 08/16/2010 and analyzed on 08/18/2010.

The serial dilution and post digestion spike for prep batch 280-26838 were within the established control limits. All of the samples within the batch were less than 50x the respective LODs for silver, arsenic, beryllium, cadmium, chromium, copper, nickel, lead, antimony, selenium, thallium, and zinc, and thus the PDS applies. There were samples within the batch that were over 50x the LODs for barium, cobalt, manganese, and vanadium, and thus the PDS does not apply.

The ICSA solution used as the ICP-MS interference check standard shows results for several metals at levels above the DoD acceptance limits (>LOD). For prep batch 280-26838 the initial ICSA solution was above the DoD acceptance limits for silver, cadmium, cobalt, chromium, nickel, antimony, and thallium. We believe the solution contains trace impurities of these elements and that the results are not artifacts of matrix interference. These results agree with those found by the manufacturer of the ICSA solution.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY - WATER

Samples NE SUMP- (280-6075-5), SW SUMP- (280-6075-6) and RINSATE (280-6075-7) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 08/12/2010 and analyzed on 08/13/2010.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples SS1- (280-6075-1), SS2- (280-6075-2), SS3- (280-6075-3), SS4- (280-6075-4) and SS1-DUP- (280-6075-8) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 08/07/2010.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

REVISION 10/1/10

The original report calculated the Mercury data using an initial prep amount of 0.3 grams, which was half of the actual initial prep amount (0.6 grams). The initial prep amount for all Mercury samples was changed to 0.6 grams, which doubled the reporting limits on the Sample reports.

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.:

Instrument ID: CHHPLC_Q Analysis Batch Number: 19421

Lab Sample ID: STD56909 280-19421/9 IC Client Sample ID:

Date Analyzed: 03/17/10 18:34 Lab File ID: 009-0901.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
PETN	22.90 Assign Peak	fiedlerh	06/15/10 10:59

Lab Sample ID: ICV 280-19421/10 Client Sample ID:

Date Analyzed: 03/17/10 19:06 Lab File ID: 010-1001.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
Picric acid	5.24 Baseline Smoothing	fiedlerh	06/15/10 11:12

8330B

06/15/10
fiedlerh

2/1/12/12

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHPLC_Q Analysis Batch Number: 26812

Lab Sample ID: MB 280-26077/5-A Client Sample ID: _____

Date Analyzed: 08/13/10 17:41 Lab File ID: Q0813009.D GC Column: Luna-phenylhe ID: 4.6 (nm)

COMPOUND NAME	RETENTION TIME	REASON	ANALYST	DATE
1,2-Dinitrobenzene	11.49	Baseline Smoothing	fiedlerh	08/18/10 11:47

Lab Sample ID: 280-6075-5 Client Sample ID: NE SUMP-

Date Analyzed: 08/13/10 18:45 Lab File ID: Q0813011.D GC Column: Luna-phenylhe ID: 4.6 (nm)

COMPOUND NAME	RETENTION TIME	REASON	ANALYST	DATE
HMX	6.10	Baseline Smoothing	fiedlerh	08/16/10 08:13

Lab Sample ID: 280-6075-6 Client Sample ID: SW SUMP-

Date Analyzed: 08/13/10 19:17 Lab File ID: Q0813012.D GC Column: Luna-phenylhe ID: 4.6 (nm)

COMPOUND NAME	RETENTION TIME	REASON	ANALYST	DATE
4-Amino-2,6-dinitrotoluene	15.29	Baseline Smoothing	fiedlerh	08/16/10 08:15

8330B

8/24/10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.:
 Instrument ID: CHHPLC_Q Analysis Batch Number: 27266
 Lab Sample ID: 280-6075-2 Client Sample ID: SS2-
 Date Analyzed: 08/17/10 17:16 Lab File ID: Q0817009.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	16.05	Isomers	fiedlerh	08/18/10 11:12

Lab Sample ID: CCV 280-27266/15 Client Sample ID:

Date Analyzed: 08/17/10 20:28 Lab File ID: Q0817015.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	11.52	Baseline Smoothing	fiedlerh	08/18/10 11:11
2-Nitrotoluene	14.72	Baseline Smoothing	fiedlerh	08/18/10 11:11
4-Nitrotoluene	15.01	Baseline Smoothing	fiedlerh	08/18/10 11:11
4-Amino-2,6-dinitrotoluene	15.34	Baseline Smoothing	fiedlerh	08/18/10 11:11
3-Nitrotoluene	15.87	Baseline Smoothing	fiedlerh	08/18/10 11:11
2-Amino-4,6-dinitrotoluene	16.21	Baseline Smoothing	fiedlerh	08/18/10 11:11
1,3,5-Trinitrobenzene	16.81	Baseline Smoothing	fiedlerh	08/18/10 11:11
2,6-Dinitrotoluene	17.75	Baseline Smoothing	fiedlerh	08/18/10 11:11
Tetryl	21.45	Baseline Smoothing	fiedlerh	08/18/10 11:11
2,4,6-Trinitrotoluene	22.44	Baseline Smoothing	fiedlerh	08/18/10 11:11

8/24/10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 24900

Lab Sample ID: STD5 280-24900/10 IC Client Sample ID: _____

Date Analyzed: 07/30/10 12:37 Lab File ID: X0730010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	8.45	Baseline Smoothing	fiedlerh	07/30/10 15:13
RDX	8.85	Baseline Smoothing	fiedlerh	07/30/10 15:13

Lab Sample ID: STD4 280-24900/11 IC Client Sample ID: _____

Date Analyzed: 07/30/10 12:58 Lab File ID: X0730011.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	9.43	Assign Peak	fiedlerh	07/30/10 15:13

Lab Sample ID: STD2 280-24900/13 IC Client Sample ID: _____

Date Analyzed: 07/30/10 13:40 Lab File ID: X0730013.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	15.17	Baseline Smoothing	fiedlerh	07/30/10 15:16

Lab Sample ID: STD1 280-24900/14 IC Client Sample ID: _____

Date Analyzed: 07/30/10 14:01 Lab File ID: X0730014.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	9.49	Baseline Smoothing	fiedlerh	07/30/10 15:16
Tetryl	11.10	Baseline Smoothing	fiedlerh	07/30/10 15:16
Nitrobenzene	11.25	Baseline Smoothing	fiedlerh	07/30/10 15:16
o-Nitrotoluene	14.11	Baseline Smoothing	fiedlerh	07/30/10 15:16
p-Nitrotoluene	14.60	Baseline Smoothing	fiedlerh	07/30/10 15:16
PETN	15.17	Baseline Smoothing	fiedlerh	07/30/10 15:16
m-Nitrotoluene	15.22	Baseline Smoothing	fiedlerh	07/30/10 15:16

8/24/10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.:
Instrument ID: CHHPLC X3 Analysis Batch Number: 24900
Lab Sample ID: STD1 280-24900/23 IC Client Sample ID:
Date Analyzed: 07/30/10 17:10 Lab File ID: X0730023.D GC Column: UltraCarb5uOD ID: 4.6 (nm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
3,5-Dinitroaniline	11.20	Baseline Smoothing	fiedlerh
			08/02/10 08:54

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-6075-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 26610

Lab Sample ID: LCS 280-26077/6-A Client Sample ID:

Date Analyzed: 08/12/10 16:15 Lab File ID: X0812015.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.83	Baseline Smoothing	fiedlerh	08/18/10 11:40
1,3,5-Trinitrobenzene	9.81	Baseline Smoothing	fiedlerh	08/18/10 11:40
1,2-Dinitrobenzene	10.03	Baseline Smoothing	fiedlerh	08/18/10 11:40

Lab Sample ID: 280-6075-6 Client Sample ID: SW SUMP-

Date Analyzed: 08/12/10 18:21 Lab File ID: X0812021.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.81	Baseline Smoothing	fiedlerh	08/13/10 10:40

Lab Sample ID: CCV 280-26610/23 Client Sample ID:

Date Analyzed: 08/12/10 19:03 Lab File ID: X0812023.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	11.41	Baseline Smoothing	fiedlerh	08/13/10 10:42

2/12/2010

8330B

8/16/10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC X3 Analysis Batch Number: 26909

Lab Sample ID: CCV 280-26909/10 Client Sample ID: _____

Date Analyzed: 08/13/10 18:49 Lab File ID: X0813010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	REASON	ANALYST	DATE
Nitroglycerin	11.40	Baseline Smoothing	fiedlerh	08/16/10 07:44
PETN	15.04	Baseline Smoothing	fiedlerh	08/16/10 07:44

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.:
 Instrument ID: CHHPLC_X3 Analysis Batch Number: 27102
 Lab Sample ID: CCV 280-27102/8 Client Sample ID:
 Date Analyzed: 08/16/10 16:27 Lab File ID: X0816008.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	11.16	Baseline Smoothing	fiedlerh	08/17/10 09:38

Lab Sample ID: LCS 280-26688/2-A Client Sample ID:
 Date Analyzed: 08/16/10 17:09 Lab File ID: X0816010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.82	Baseline Smoothing	fiedlerh	08/17/10 09:58

Lab Sample ID: 280-6075-2 Client Sample ID: SS2-
 Date Analyzed: 08/16/10 18:54 Lab File ID: X0816015.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetryl	10.98	Shouldering	fiedlerh	08/17/10 10:02

Revised

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_G Analysis Batch Number: 26762Lab Sample ID: IC 280-26762/6 Client Sample ID: _____Date Analyzed: 08/12/10 10:31 Lab File ID: G7603.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene oxide	4.78	Split Peak	reinhardt j	08/12/10 12:39
1,2-Dichloro-1,1,2-trifluoroethane	5.41	Split Peak	reinhardt j	08/12/10 12:39

Lab Sample ID: ICIS 280-26762/7 Client Sample ID: _____Date Analyzed: 08/12/10 10:54 Lab File ID: G7604.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene oxide	4.81	Split Peak	reinhardt j	08/12/10 13:00
1,2-Dichloro-1,1,2-trifluoroethane	5.42	Split Peak	reinhardt j	08/12/10 12:44

Lab Sample ID: IC 280-26762/8 Client Sample ID: _____Date Analyzed: 08/12/10 11:17 Lab File ID: G7605.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene oxide	4.78	Split Peak	reinhardt j	08/12/10 12:46
1,2-Dichloro-1,1,2-trifluoroethane	5.41	Split Peak	reinhardt j	08/12/10 12:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_G Analysis Batch Number: 26762Lab Sample ID: IC 280-26762/9 Client Sample ID: _____Date Analyzed: 08/12/10 11:40 Lab File ID: G7606.D GC Column: DB-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene oxide	4.74	Split Peak	reinhardt j	08/12/10 13:01
Isopropyl alcohol	5.72	Split Peak	reinhardt j	08/12/10 12:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_H Analysis Batch Number: 26333Lab Sample ID: IC 280-26333/2 Client Sample ID: _____Date Analyzed: 08/10/10 06:31 Lab File ID: H6885.D GC Column: DB-624 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene Dibromide	9.75	Split Peak	meierg	08/10/10 09:08
Bromoform	11.88	Analyte not Identified by the Data System	meierg	08/10/10 08:47

Lab Sample ID: IC 280-26333/3 Client Sample ID: _____Date Analyzed: 08/10/10 06:53 Lab File ID: H6886.D GC Column: DB-624 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	5.02	Analyte not Identified by the Data System	meierg	08/10/10 09:05

Lab Sample ID: IC 280-26333/4 Client Sample ID: _____Date Analyzed: 08/10/10 07:14 Lab File ID: H6887.D GC Column: DB-624 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	7.30	Split Peak	meierg	08/10/10 09:06

Lab Sample ID: IC 280-26333/10 Client Sample ID: _____Date Analyzed: 08/10/10 09:23 Lab File ID: H6893.D GC Column: DB-624 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Pentanone	7.06	Analyte not Identified by the Data System	meierg	08/10/10 11:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_H Analysis Batch Number: 26526Lab Sample ID: 280-6075-5 MSD Client Sample ID: NE SUMP- MSDDate Analyzed: 08/11/10 12:19 Lab File ID: H6943.D GC Column: DB-624 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trimethylbenzene	12.93	Split Peak	meierg	08/11/10 13:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_B Analysis Batch Number: 29057Lab Sample ID: IC 280-29057/2 Client Sample ID: _____Date Analyzed: 08/28/10 07:46 Lab File ID: B9886.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.78	Split Peak	tinkhams	08/28/10 12:34

Lab Sample ID: IC 280-29057/3 Client Sample ID: _____Date Analyzed: 08/28/10 08:05 Lab File ID: B9887.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.79	Split Peak	tinkhams	08/28/10 12:35

Lab Sample ID: IC 280-29057/4 Client Sample ID: _____Date Analyzed: 08/28/10 08:24 Lab File ID: B9888.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.78	Split Peak	tinkhams	08/28/10 12:36

Lab Sample ID: ICIS 280-29057/5 Client Sample ID: _____Date Analyzed: 08/28/10 08:43 Lab File ID: B9889.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.78	Mis-Integrated	tinkhams	08/28/10 12:31

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_B Analysis Batch Number: 29075Lab Sample ID: IC 280-29075/2 Client Sample ID: _____Date Analyzed: 08/28/10 10:39 Lab File ID: B9895.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	5.71	Not specified	tinkhams	08/28/10 14:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_D Analysis Batch Number: 26452Lab Sample ID: IC 280-26452/2 Client Sample ID: _____Date Analyzed: 08/10/10 13:19 Lab File ID: D7270.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.09	Split Peak	hoffmanm	08/10/10 16:13

Lab Sample ID: IC 280-26452/3 Client Sample ID: _____Date Analyzed: 08/10/10 13:37 Lab File ID: D7271.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.09	Split Peak	hoffmanm	08/10/10 16:14

Lab Sample ID: IC 280-26452/4 Client Sample ID: _____Date Analyzed: 08/10/10 13:56 Lab File ID: D7272.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.09	Split Peak	hoffmanm	08/10/10 16:15

Lab Sample ID: ICIS 280-26452/5 Client Sample ID: _____Date Analyzed: 08/10/10 14:26 Lab File ID: D7273.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.10	Split Peak	hoffmanm	08/10/10 16:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_D Analysis Batch Number: 26452Lab Sample ID: IC 280-26452/6 Client Sample ID: _____Date Analyzed: 08/10/10 14:45 Lab File ID: D7274.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
alpha,alpha-Dimethyl phenethylamine	5.11	Split Peak	hoffmanm	08/10/10 16:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_D Analysis Batch Number: 27640Lab Sample ID: 280-6075-3 Client Sample ID: SS3-Date Analyzed: 08/17/10 22:19 Lab File ID: D7593.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	11.44	Analyte Misidentified by the Data System	kiekeld	08/18/10 18:10
Perylene-d12	11.48	Analyte not Identified by the Data System	kiekeld	08/18/10 10:55
Benzo[g,h,i]perylene	12.73	Analyte Misidentified by the Data System	kiekeld	08/18/10 18:10

Lab Sample ID: 280-6075-4 Client Sample ID: SS4-Date Analyzed: 08/17/10 22:38 Lab File ID: D7594.D GC Column: Vf-5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	11.43	Analyte Misidentified by the Data System	kiekeld	08/18/10 18:12
Perylene-d12	11.48	Analyte not Identified by the Data System	kiekeld	08/18/10 10:56
Indeno[1,2,3-cd]pyrene	12.44	Analyte not Identified by the Data System	kiekeld	08/18/10 18:12
Benzo[g,h,i]perylene	12.73	Analyte Misidentified by the Data System	kiekeld	08/18/10 18:12

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_Q Analysis Batch Number: 19421Lab Sample ID: STD56909 280-19421/9 IC Client Sample ID: _____Date Analyzed: 03/17/10 18:34 Lab File ID: 009-0901.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	22.90	Assign Peak	fiedlerh	06/15/10 10:59

Lab Sample ID: ICV 280-19421/10 Client Sample ID: _____Date Analyzed: 03/17/10 19:06 Lab File ID: 010-1001.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	5.24	Baseline Smoothing	fiedlerh	06/15/10 11:12

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_Q Analysis Batch Number: 26812Lab Sample ID: MB 280-26077/5-A Client Sample ID: _____Date Analyzed: 08/13/10 17:41 Lab File ID: Q0813009.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	11.49	Baseline Smoothing	fiedlerh	08/18/10 11:47

Lab Sample ID: 280-6075-5 Client Sample ID: NE SUMP-Date Analyzed: 08/13/10 18:45 Lab File ID: Q0813011.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.10	Baseline Smoothing	fiedlerh	08/16/10 08:13

Lab Sample ID: 280-6075-6 Client Sample ID: SW SUMP-Date Analyzed: 08/13/10 19:17 Lab File ID: Q0813012.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Amino-2,6-dinitrotoluene	15.29	Baseline Smoothing	fiedlerh	08/16/10 08:15

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_Q Analysis Batch Number: 27266Lab Sample ID: 280-6075-2 Client Sample ID: SS2-Date Analyzed: 08/17/10 17:16 Lab File ID: Q0817009.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	16.05	Isomers	fiedlerh	08/18/10 11:12

Lab Sample ID: CCV 280-27266/15 Client Sample ID: _____Date Analyzed: 08/17/10 20:28 Lab File ID: Q0817015.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	11.52	Baseline Smoothing	fiedlerh	08/18/10 11:11
2-Nitrotoluene	14.72	Baseline Smoothing	fiedlerh	08/18/10 11:11
4-Nitrotoluene	15.01	Baseline Smoothing	fiedlerh	08/18/10 11:11
4-Amino-2,6-dinitrotoluene	15.34	Baseline Smoothing	fiedlerh	08/18/10 11:11
3-Nitrotoluene	15.87	Baseline Smoothing	fiedlerh	08/18/10 11:11
2-Amino-4,6-dinitrotoluene	16.21	Baseline Smoothing	fiedlerh	08/18/10 11:11
1,3,5-Trinitrobenzene	16.81	Baseline Smoothing	fiedlerh	08/18/10 11:11
2,6-Dinitrotoluene	17.75	Baseline Smoothing	fiedlerh	08/18/10 11:11
Tetryl	21.45	Baseline Smoothing	fiedlerh	08/18/10 11:11
2,4,6-Trinitrotoluene	22.44	Baseline Smoothing	fiedlerh	08/18/10 11:11

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 24900Lab Sample ID: STD5 280-24900/10 IC Client Sample ID: _____Date Analyzed: 07/30/10 12:37 Lab File ID: X0730010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	8.45	Baseline Smoothing	fiedlerh	07/30/10 15:13
RDX	8.85	Baseline Smoothing	fiedlerh	07/30/10 15:13

Lab Sample ID: STD4 280-24900/11 IC Client Sample ID: _____Date Analyzed: 07/30/10 12:58 Lab File ID: X0730011.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	9.43	Assign Peak	fiedlerh	07/30/10 15:13

Lab Sample ID: STD2 280-24900/13 IC Client Sample ID: _____Date Analyzed: 07/30/10 13:40 Lab File ID: X0730013.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	15.17	Baseline Smoothing	fiedlerh	07/30/10 15:16

Lab Sample ID: STD1 280-24900/14 IC Client Sample ID: _____Date Analyzed: 07/30/10 14:01 Lab File ID: X0730014.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	9.49	Baseline Smoothing	fiedlerh	07/30/10 15:16
Tetryl	11.10	Baseline Smoothing	fiedlerh	07/30/10 15:16
Nitrobenzene	11.25	Baseline Smoothing	fiedlerh	07/30/10 15:16
o-Nitrotoluene	14.11	Baseline Smoothing	fiedlerh	07/30/10 15:16
p-Nitrotoluene	14.60	Baseline Smoothing	fiedlerh	07/30/10 15:16
PETN	15.17	Baseline Smoothing	fiedlerh	07/30/10 15:16
m-Nitrotoluene	15.22	Baseline Smoothing	fiedlerh	07/30/10 15:16

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 24900Lab Sample ID: STD1 280-24900/23 IC Client Sample ID: _____Date Analyzed: 07/30/10 17:10 Lab File ID: X0730023.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	11.20	Baseline Smoothing	fiedlerh	08/02/10 08:54

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 26610Lab Sample ID: LCS 280-26077/6-A Client Sample ID: _____Date Analyzed: 08/12/10 16:15 Lab File ID: X0812015.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.83	Baseline Smoothing	fiedlerh	08/18/10 11:40
1,3,5-Trinitrobenzene	9.81	Baseline Smoothing	fiedlerh	08/18/10 11:40
1,2-Dinitrobenzene	10.03	Baseline Smoothing	fiedlerh	08/18/10 11:40

Lab Sample ID: 280-6075-6 Client Sample ID: SW SUMP-Date Analyzed: 08/12/10 18:21 Lab File ID: X0812021.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.81	Baseline Smoothing	fiedlerh	08/13/10 10:40

Lab Sample ID: CCV 280-26610/23 Client Sample ID: _____Date Analyzed: 08/12/10 19:03 Lab File ID: X0812023.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	11.41	Baseline Smoothing	fiedlerh	08/13/10 10:42

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 26909Lab Sample ID: CCV 280-26909/10 Client Sample ID: _____Date Analyzed: 08/13/10 18:49 Lab File ID: X0813010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	11.40	Baseline Smoothing	fiedlerh	08/16/10 07:44
PETN	15.04	Baseline Smoothing	fiedlerh	08/16/10 07:44

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 27102Lab Sample ID: CCV 280-27102/8 Client Sample ID: _____Date Analyzed: 08/16/10 16:27 Lab File ID: X0816008.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	11.16	Baseline Smoothing	fiedlerh	08/17/10 09:38

Lab Sample ID: LCS 280-26688/2-A Client Sample ID: _____Date Analyzed: 08/16/10 17:09 Lab File ID: X0816010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.82	Baseline Smoothing	fiedlerh	08/17/10 09:58

Lab Sample ID: 280-6075-1 MS Client Sample ID: SS1- MSDate Analyzed: 08/16/10 18:12 Lab File ID: X0816013.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.81	Baseline Smoothing	fiedlerh	08/18/10 15:28

Lab Sample ID: 280-6075-1 MSD Client Sample ID: SS1- MSDDate Analyzed: 08/16/10 18:33 Lab File ID: X0816014.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	8.82	Baseline Smoothing	fiedlerh	08/18/10 15:29
1,3,5-Trinitrobenzene	9.80	Baseline Smoothing	fiedlerh	08/18/10 15:29
1,2-Dinitrobenzene	10.00	Baseline Smoothing	fiedlerh	08/18/10 15:29

Lab Sample ID: 280-6075-2 Client Sample ID: SS2-Date Analyzed: 08/16/10 18:54 Lab File ID: X0816015.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetryl	10.98	Shouldering	fiedlerh	08/17/10 10:02

Methods 8321/6860/1625

No Manual Integrations Performed

SAMPLE SUMMARY

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-6075-1	SS1-	Solid	08/02/2010 0945	08/06/2010 1000
280-6075-2	SS2-	Solid	08/02/2010 1010	08/06/2010 1000
280-6075-3	SS3-	Solid	08/02/2010 1030	08/06/2010 1000
280-6075-4	SS4-	Solid	08/02/2010 1045	08/06/2010 1000
280-6075-5	NE SUMP-	Water	08/02/2010 0800	08/06/2010 1000
280-6075-6	SW SUMP-	Water	08/02/2010 0830	08/06/2010 1000
280-6075-7	RINSATE	Water	08/02/2010 1145	08/06/2010 1000
280-6075-8	SS1-DUP-	Solid	08/02/2010 1130	08/06/2010 1000
280-6075-9TB	TRIP BLANK	WQ	08/02/2010 0000	08/06/2010 1000

EXECUTIVE SUMMARY - Detections

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-6075-1	SS1-					
4-Isopropyltoluene		3.5	J	5.3	ug/Kg	8260B/DoD
Acetone		14	J	21	ug/Kg	8260B/DoD
cis-1,2-Dichloroethene		0.89	J	5.3	ug/Kg	8260B/DoD
Arsenic		6500		610	ug/Kg	6020A
Barium		47000		260	ug/Kg	6020A
Cadmium		2600	Q	100	ug/Kg	6020A
Chromium		11000	Q	610	ug/Kg	6020A
Lead		18000		410	ug/Kg	6020A
Selenium		560		510	ug/Kg	6020A
Silver		100	Q	100	ug/Kg	6020A
Mercury		64		18	ug/Kg	7471B
Percent Moisture		14		0.10	%	Moisture
280-6075-2	SS2-					
4-Isopropyltoluene		5.6		4.7	ug/Kg	8260B/DoD
Acetone		14	J	19	ug/Kg	8260B/DoD
cis-1,2-Dichloroethene		1.9	J	4.7	ug/Kg	8260B/DoD
Benzo[b]fluoranthene		39	J K	340	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		17	J	340	ug/Kg	8270C/DoD
Pyrene		22	J	410	ug/Kg	8270C/DoD
Arsenic		5500		560	ug/Kg	6020A
Barium		43000		230	ug/Kg	6020A
Cadmium		6000	Q	94	ug/Kg	6020A
Chromium		16000	Q	560	ug/Kg	6020A
Lead		34000		380	ug/Kg	6020A
Selenium		530		470	ug/Kg	6020A
Silver		580	Q	94	ug/Kg	6020A
Mercury		47		17	ug/Kg	7471B
Percent Moisture		6.7		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-6075-3	SS3-					
4-Isopropyltoluene		14		7.1	ug/Kg	8260B/DoD
Acetone		14	J	28	ug/Kg	8260B/DoD
Benzo[a]anthracene		32	J	370	ug/Kg	8270C/DoD
Benzoic acid		450	J Q	1800	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		72	J K	370	ug/Kg	8270C/DoD
Fluoranthene		45	J	370	ug/Kg	8270C/DoD
Chrysene		42	J	370	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		24	J M	370	ug/Kg	8270C/DoD
Benzo[a]pyrene		26	J M	370	ug/Kg	8270C/DoD
Pyrene		47	J	440	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		110	J	370	ug/Kg	8270C/DoD
Arsenic		5500		680	ug/Kg	6020A
Barium		51000		280	ug/Kg	6020A
Cadmium		990	Q	110	ug/Kg	6020A
Chromium		9700	Q	680	ug/Kg	6020A
Lead		20000		450	ug/Kg	6020A
Selenium		680		560	ug/Kg	6020A
Silver		280	Q	110	ug/Kg	6020A
Mercury		620	J	19	ug/Kg	7471B
Percent Moisture		12		0.10	%	Moisture
280-6075-4	SS4-					
2-Butanone (MEK)		3.4	J	14	ug/Kg	8260B/DoD
4-Isopropyltoluene		1.8	J	3.4	ug/Kg	8260B/DoD
Acetone		35		14	ug/Kg	8260B/DoD
Benzo[a]anthracene		30	J	360	ug/Kg	8270C/DoD
Benzo[b]fluoranthene		85	J K	360	ug/Kg	8270C/DoD
Fluoranthene		54	J	360	ug/Kg	8270C/DoD
Chrysene		44	J	360	ug/Kg	8270C/DoD
Benzo[g,h,i]perylene		27	J M	360	ug/Kg	8270C/DoD
Benzo[a]pyrene		26	J M	360	ug/Kg	8270C/DoD
Indeno[1,2,3-cd]pyrene		24	J M	360	ug/Kg	8270C/DoD
Pyrene		50	J	430	ug/Kg	8270C/DoD
Bis(2-ethylhexyl) phthalate		970		360	ug/Kg	8270C/DoD
Arsenic		7900		630	ug/Kg	6020A
Barium		62000		260	ug/Kg	6020A
Cadmium		4400	Q	100	ug/Kg	6020A
Chromium		11000	Q	630	ug/Kg	6020A
Lead		21000		420	ug/Kg	6020A
Selenium		750		520	ug/Kg	6020A
Silver		420	Q	100	ug/Kg	6020A
Mercury		58		18	ug/Kg	7471B
Percent Moisture		7.9		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-6075-5	NE SUMP-					
Methylene Chloride		0.61	J	5.0	ug/L	8260B/DoD
Arsenic		0.36	J	5.0	ug/L	6020A
Barium		27		3.0	ug/L	6020A
Cadmium		0.56	J Q	1.0	ug/L	6020A
Lead		0.50	J	3.0	ug/L	6020A
Silver		0.029	J	5.0	ug/L	6020A
280-6075-6	SW SUMP-					
Acetone		1.9	J	10	ug/L	8260B/DoD
Methylene Chloride		0.36	J	5.0	ug/L	8260B/DoD
Arsenic		0.57	J	5.0	ug/L	6020A
Barium		24		3.0	ug/L	6020A
Mercury		0.035	J	0.20	ug/L	7470A
280-6075-7	RINSATE					
1,2,4-Trimethylbenzene		0.15	J	1.0	ug/L	8260B/DoD
Acetone		4.0	J	10	ug/L	8260B/DoD
Methylene Chloride		0.38	J	5.0	ug/L	8260B/DoD
Toluene		0.31	J	1.0	ug/L	8260B/DoD
Barium		1.5	J	3.0	ug/L	6020A
Cadmium		0.16	J Q	1.0	ug/L	6020A
Lead		0.30	J	3.0	ug/L	6020A
Silver		0.018	J	5.0	ug/L	6020A
280-6075-8	SS1-DUP-					
4-Isopropyltoluene		1.0	J	3.9	ug/Kg	8260B/DoD
Acetone		17		16	ug/Kg	8260B/DoD
cis-1,2-Dichloroethene		2.8	J	3.9	ug/Kg	8260B/DoD
Bis(2-ethylhexyl) phthalate		56	J	350	ug/Kg	8270C/DoD
Arsenic		6100		620	ug/Kg	6020A
Barium		48000		260	ug/Kg	6020A
Cadmium		2800	Q	100	ug/Kg	6020A
Chromium		15000	Q	620	ug/Kg	6020A
Lead		26000		410	ug/Kg	6020A
Selenium		300	J	520	ug/Kg	6020A
Silver		83	J Q	100	ug/Kg	6020A
Mercury		62		17	ug/Kg	7471B
Percent Moisture		5.4		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-6075-9TB	TRIP BLANK					
Acetone		2.5	J	10	ug/L	8260B/DoD
Methylene Chloride		0.42	J	5.0	ug/L	8260B/DoD

METHOD SUMMARY

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B/DoD	
Closed System Purge and Trap	TAL DEN		SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C/DoD	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Nitroaromatics and Nitramines (HPLC)	TAL DEN	SW846 8330B	
Multi Incremental Sample Preparation	TAL DEN		EPA Increm, Prep
Sonication Extraction (Explosives)	TAL DEN		SW846 8330B
Perchlorate by IC/MS or IC/MS/MS	TAL DEN	EPA 6860	
Deionized Water Leach Prep	TAL DEN		SW846 6860
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL DEN	SW846 7471B	
Preparation, Mercury	TAL DEN		SW846 7471B
Percent Moisture	TAL DEN	EPA Moisture	
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B/DoD	
Purge and Trap	TAL DEN		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C/DoD	
Liquid-Liquid Extraction (Continuous)	TAL DEN		SW846 3520C
Nitroaromatics and Nitramines (HPLC)	TAL DEN	SW846 8330B	
Solid-Phase Extraction (SPE)	TAL DEN		SW846 3535
Perchlorate by IC/MS or IC/MS/MS	TAL DEN	EPA 6860	
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Metals	TAL DEN		SW846 3020A
Mercury (CVAA)	TAL DEN	SW846 7470A	
Preparation, Mercury	TAL DEN		SW846 7470A

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method	Analyst	Analyst ID
SW846 8260B/DoD	Meier, Greg P	GPM
SW846 8260B/DoD	Reinhardt, Jason	JR
SW846 8270C/DoD	Hoffman, Michael G	MGH
SW846 8270C/DoD	Kiekel, Daniel C	DCK
SW846 6020A	Lill, Thomas E	TEL
SW846 7470A	Stoltz, Katie	KS
SW846 7471B	Stoltz, Katie	KS
EPA 6860	Bonnett, Jaqueline C	JCB
EPA Moisture	Lambert, Sarah	SL
SW846 8330B	Fiedler, Heather K	HKF

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Date Sampled: 08/02/2010 0945

Client Matrix: Solid

% Moisture: 13.5

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7611.D
Dilution:	1.0		Initial Weight/Volume:	5.227 g
Date Analyzed:	08/12/2010 1409		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 0945			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.1	U	0.59	5.3
1,1,1-Trichloroethane		1.1	U	0.55	5.3
1,2,3-Trichloropropane		1.1	U	0.86	5.3
1,2,3-Trichlorobenzene		1.1	U	0.79	5.3
1,1-Dichloroethane		1.1	U	0.22	5.3
1,2,4-Trichlorobenzene		1.1	U	0.77	5.3
1,2-Dibromo-3-Chloropropane		1.1	U	0.63	11
1,1-Dichloropropene		1.1	U	0.57	5.3
1,1-Dichloroethene		1.1	U	0.62	5.3
1,1,2-Trichloroethane		1.1	U	0.93	5.3
1,1,1,2-Tetrachloroethane		1.1	U	0.65	5.3
1,2,4-Trimethylbenzene		1.1	U	0.61	5.3
1,2-Dichlorobenzene		1.1	U	0.48	5.3
1,2-Dichloroethane		1.1	U	0.74	5.3
1,3-Dichlorobenzene		1.1	U	0.51	5.3
1,3-Dichloropropane		1.1	U	0.54	5.3
1,3,5-Trimethylbenzene		1.1	U	0.60	5.3
2-Butanone (MEK)		11	U	1.9	21
1,4-Dichlorobenzene		1.1	U	0.83	5.3
1,2-Dichloropropane		1.1	U	0.58	5.3
2,2-Dichloropropane		1.1	U	0.47	5.3
2-Hexanone		11	U	5.2	21
4-Methyl-2-pentanone (MIBK)		11	U	4.6	21
4-Isopropyltoluene		3.5	J	0.52	5.3
Benzene		1.1	U	0.50	5.3
Acetone		14	J	5.7	21
Bromobenzene		1.1	U	0.52	5.3
Bromoform		1.1	U	0.24	5.3
Bromomethane		1.1	U	0.53	11
Carbon tetrachloride		1.1	U	0.67	5.3
Carbon disulfide		1.1	U	0.44	5.3
2-Chlorotoluene		1.1	U	0.54	5.3
4-Chlorotoluene		1.1	U	0.83	5.3
Chlorobenzene		1.1	U	0.57	5.3
Chlorobromomethane		1.1	U	0.32	5.3
Chlorodibromomethane		1.1	U	0.60	5.3
Chloroform		1.1	U	0.31	11
Chloroethane		1.1	U	0.94	11
Chloromethane		1.1	U	0.81	11
cis-1,2-Dichloroethene		0.89	J	0.59	5.3
cis-1,3-Dichloropropene		2.1	U	1.4	5.3
Dibromomethane		1.1	U	0.89	5.3
Dichlorobromomethane		1.1	U	0.23	5.3
Dichlorodifluoromethane		1.1	U	0.55	11
Ethylbenzene		1.1	U	0.71	5.3
Hexachlorobutadiene		1.1	U	0.58	5.3

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Date Sampled: 08/02/2010 0945

Client Matrix: Solid

% Moisture: 13.5

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7611.D
Dilution:	1.0		Initial Weight/Volume:	5.227 g
Date Analyzed:	08/12/2010 1409		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 0945			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.1	U	0.62	5.3
Ethylene Dibromide		1.1	U	0.55	5.3
Methylene Chloride		1.1	U	0.79	5.3
Methyl tert-butyl ether		1.1	U	0.36	21
m-Xylene & p-Xylene		2.1	U	1.1	3.4
Naphthalene		1.1	U	0.67	5.3
n-Butylbenzene		1.1	U	0.59	5.3
N-Propylbenzene		1.1	U	0.61	5.3
o-Xylene		1.1	U	0.65	5.3
Styrene		1.1	U	0.67	5.3
sec-Butylbenzene		1.1	U	0.81	5.3
tert-Butylbenzene		1.1	U	0.53	5.3
trans-1,2-Dichloroethene		1.1	U	0.41	5.3
trans-1,3-Dichloropropene		1.1	U	0.71	5.3
Tetrachloroethene		1.1	U	0.62	5.3
Toluene		1.1	U	0.73	5.3
Trichloroethene		1.1	U	0.24	5.3
Trichlorofluoromethane		2.1	U	1.1	11
Vinyl chloride		2.1	U	1.4	5.3
Hexane		5.3	U	0.72	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	106		85 - 115
1,2-Dichloroethane-d4 (Surr)	79		61 - 129
4-Bromofluorobenzene (Surr)	114		85 - 120
Dibromofluoromethane (Surr)	91		71 - 126

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

% Moisture: 6.7

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7612.D
Dilution:	1.0		Initial Weight/Volume:	5.351 g
Date Analyzed:	08/12/2010 1432		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1010			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		0.94	U	0.52	4.7
1,1,1-Trichloroethane		0.94	U	0.49	4.7
1,2,3-Trichloropropane		0.94	U	0.76	4.7
1,2,3-Trichlorobenzene		0.94	U	0.70	4.7
1,1-Dichloroethane		0.94	U	0.20	4.7
1,2,4-Trichlorobenzene		0.94	U	0.68	4.7
1,2-Dibromo-3-Chloropropane		0.94	U	0.56	9.4
1,1-Dichloropropene		0.94	U	0.51	4.7
1,1-Dichloroethene		0.94	U	0.55	4.7
1,1,2-Trichloroethane		0.94	U	0.82	4.7
1,1,1,2-Tetrachloroethane		0.94	U	0.57	4.7
1,2,4-Trimethylbenzene		0.94	U	0.54	4.7
1,2-Dichlorobenzene		0.94	U	0.42	4.7
1,2-Dichloroethane		0.94	U	0.65	4.7
1,3-Dichlorobenzene		0.94	U	0.45	4.7
1,3-Dichloropropane		0.94	U	0.48	4.7
1,3,5-Trimethylbenzene		0.94	U	0.53	4.7
2-Butanone (MEK)		9.4	U	1.7	19
1,4-Dichlorobenzene		0.94	U	0.73	4.7
1,2-Dichloropropane		0.94	U	0.51	4.7
2,2-Dichloropropane		0.94	U	0.41	4.7
2-Hexanone		9.4	U	4.6	19
4-Methyl-2-pentanone (MIBK)		9.4	U	4.1	19
4-Isopropyltoluene		5.6		0.46	4.7
Benzene		0.94	U	0.44	4.7
Acetone		14	J	5.0	19
Bromobenzene		0.94	U	0.46	4.7
Bromoform		0.94	U	0.22	4.7
Bromomethane		0.94	U	0.47	9.4
Carbon tetrachloride		0.94	U	0.59	4.7
Carbon disulfide		0.94	U	0.39	4.7
2-Chlorotoluene		0.94	U	0.48	4.7
4-Chlorotoluene		0.94	U	0.73	4.7
Chlorobenzene		0.94	U	0.51	4.7
Chlorobromomethane		0.94	U	0.28	4.7
Chlorodibromomethane		0.94	U	0.53	4.7
Chloroform		0.94	U	0.27	9.4
Chloroethane		0.94	U	0.83	9.4
Chloromethane		0.94	U	0.72	9.4
cis-1,2-Dichloroethene		1.9	J	0.52	4.7
cis-1,3-Dichloropropene		1.9	U	1.2	4.7
Dibromomethane		0.94	U	0.79	4.7
Dichlorobromomethane		0.94	U	0.21	4.7
Dichlorodifluoromethane		0.94	U	0.49	9.4
Ethylbenzene		0.94	U	0.63	4.7
Hexachlorobutadiene		0.94	U	0.51	4.7

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

% Moisture: 6.7

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7612.D
Dilution:	1.0		Initial Weight/Volume:	5.351 g
Date Analyzed:	08/12/2010 1432		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1010			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		0.94	U	0.55	4.7
Ethylene Dibromide		0.94	U	0.49	4.7
Methylene Chloride		0.94	U	0.70	4.7
Methyl tert-butyl ether		0.94	U	0.32	19
m-Xylene & p-Xylene		1.9	U	0.97	3.0
Naphthalene		0.94	U	0.59	4.7
n-Butylbenzene		0.94	U	0.52	4.7
N-Propylbenzene		0.94	U	0.54	4.7
o-Xylene		0.94	U	0.57	4.7
Styrene		0.94	U	0.59	4.7
sec-Butylbenzene		0.94	U	0.72	4.7
tert-Butylbenzene		0.94	U	0.47	4.7
trans-1,2-Dichloroethene		0.94	U	0.36	4.7
trans-1,3-Dichloropropene		0.94	U	0.63	4.7
Tetrachloroethene		0.94	U	0.55	4.7
Toluene		0.94	U	0.65	4.7
Trichloroethene		0.94	U	0.22	4.7
Trichlorofluoromethane		1.9	U	0.97	9.4
Vinyl chloride		1.9	U	1.3	4.7
Hexane		4.7	U	0.64	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		85 - 115
1,2-Dichloroethane-d4 (Surr)	79		61 - 129
4-Bromofluorobenzene (Surr)	107		85 - 120
Dibromofluoromethane (Surr)	92		71 - 126

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Date Sampled: 08/02/2010 1030

Client Matrix: Solid

% Moisture: 12.1

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7613.D
Dilution:	1.0		Initial Weight/Volume:	4.483 g
Date Analyzed:	08/12/2010 1455		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1030			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.4	U	0.79	7.1
1,1,1-Trichloroethane		1.4	U	0.74	7.1
1,2,3-Trichloropropane		1.4	U	1.1	7.1
1,2,3-Trichlorobenzene		1.4	U	1.1	7.1
1,1-Dichloroethane		1.4	U	0.30	7.1
1,2,4-Trichlorobenzene		1.4	U	1.0	7.1
1,2-Dibromo-3-Chloropropane		1.4	U	0.85	14
1,1-Dichloropropene		1.4	U	0.76	7.1
1,1-Dichloroethene		1.4	U	0.84	7.1
1,1,2-Trichloroethane		1.4	U	1.2	7.1
1,1,2,2-Tetrachloroethane		1.4	U	0.86	7.1
1,2,4-Trimethylbenzene		1.4	U	0.82	7.1
1,2-Dichlorobenzene		1.4	U	0.64	7.1
1,2-Dichloroethane		1.4	U	0.99	7.1
1,3-Dichlorobenzene		1.4	U	0.68	7.1
1,3-Dichloropropane		1.4	U	0.72	7.1
1,3,5-Trimethylbenzene		1.4	U	0.81	7.1
2-Butanone (MEK)		14	U	2.6	28
1,4-Dichlorobenzene		1.4	U	1.1	7.1
1,2-Dichloropropane		1.4	U	0.78	7.1
2,2-Dichloropropane		1.4	U	0.62	7.1
2-Hexanone		14	U	6.9	28
4-Methyl-2-pentanone (MIBK)		14	U	6.2	28
4-Isopropyltoluene		14		0.69	7.1
Benzene		1.4	U	0.67	7.1
Acetone		14	J	7.6	28
Bromobenzene		1.4	U	0.69	7.1
Bromoform		1.4	U	0.33	7.1
Bromomethane		1.4	U	0.71	14
Carbon tetrachloride		1.4	U	0.89	7.1
Carbon disulfide		1.4	U	0.59	7.1
2-Chlorotoluene		1.4	U	0.72	7.1
4-Chlorotoluene		1.4	U	1.1	7.1
Chlorobenzene		1.4	U	0.76	7.1
Chlorobromomethane		1.4	U	0.42	7.1
Chlorodibromomethane		1.4	U	0.81	7.1
Chloroform		1.4	U	0.41	14
Chloroethane		1.4	U	1.3	14
Chloromethane		1.4	U	1.1	14
cis-1,2-Dichloroethene		1.4	U	0.79	7.1
cis-1,3-Dichloropropene		2.8	U	1.8	7.1
Dibromomethane		1.4	U	1.2	7.1
Dichlorobromomethane		1.4	U	0.31	7.1
Dichlorodifluoromethane		1.4	U	0.74	14
Ethylbenzene		1.4	U	0.95	7.1
Hexachlorobutadiene		1.4	U	0.78	7.1

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Date Sampled: 08/02/2010 1030

Client Matrix: Solid

% Moisture: 12.1

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7613.D
Dilution:	1.0		Initial Weight/Volume:	4.483 g
Date Analyzed:	08/12/2010 1455		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1030			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.4	U	0.84	7.1
Ethylene Dibromide		1.4	U	0.74	7.1
Methylene Chloride		1.4	U	1.1	7.1
Methyl tert-butyl ether		1.4	U	0.48	28
m-Xylene & p-Xylene		2.8	U	1.5	4.5
Naphthalene		1.4	U	0.89	7.1
n-Butylbenzene		1.4	U	0.79	7.1
N-Propylbenzene		1.4	U	0.82	7.1
o-Xylene		1.4	U	0.86	7.1
Styrene		1.4	U	0.89	7.1
sec-Butylbenzene		1.4	U	1.1	7.1
tert-Butylbenzene		1.4	U	0.71	7.1
trans-1,2-Dichloroethene		1.4	U	0.55	7.1
trans-1,3-Dichloropropene		1.4	U	0.95	7.1
Tetrachloroethene		1.4	U	0.84	7.1
Toluene		1.4	U	0.98	7.1
Trichloroethene		1.4	U	0.33	7.1
Trichlorofluoromethane		2.8	U	1.5	14
Vinyl chloride		2.8	U	1.9	7.1
Hexane		7.1	U	0.96	7.1

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		85 - 115
1,2-Dichloroethane-d4 (Surr)	78		61 - 129
4-Bromofluorobenzene (Surr)	106		85 - 120
Dibromofluoromethane (Surr)	91		71 - 126

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Date Sampled: 08/02/2010 1045

Client Matrix: Solid

% Moisture: 7.9

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7614.D
Dilution:	1.0		Initial Weight/Volume:	6.293 g
Date Analyzed:	08/12/2010 1518		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1045			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		0.69	U	0.38	3.4
1,1,1-Trichloroethane		0.69	U	0.36	3.4
1,2,3-Trichloropropane		0.69	U	0.56	3.4
1,2,3-Trichlorobenzene		0.69	U	0.51	3.4
1,1-Dichloroethane		0.69	U	0.14	3.4
1,2,4-Trichlorobenzene		0.69	U	0.50	3.4
1,2-Dibromo-3-Chloropropane		0.69	U	0.41	6.9
1,1-Dichloropropene		0.69	U	0.37	3.4
1,1-Dichloroethene		0.69	U	0.40	3.4
1,1,2-Trichloroethane		0.69	U	0.60	3.4
1,1,2,2-Tetrachloroethane		0.69	U	0.42	3.4
1,2,4-Trimethylbenzene		0.69	U	0.40	3.4
1,2-Dichlorobenzene		0.69	U	0.31	3.4
1,2-Dichloroethane		0.69	U	0.48	3.4
1,3-Dichlorobenzene		0.69	U	0.33	3.4
1,3-Dichloropropane		0.69	U	0.35	3.4
1,3,5-Trimethylbenzene		0.69	U	0.39	3.4
2-Butanone (MEK)		3.4	J	1.3	14
1,4-Dichlorobenzene		0.69	U	0.53	3.4
1,2-Dichloropropane		0.69	U	0.38	3.4
2,2-Dichloropropane		0.69	U	0.30	3.4
2-Hexanone		6.9	U	3.4	14
4-Methyl-2-pentanone (MIBK)		6.9	U	3.0	14
4-Isopropyltoluene		1.8	J	0.34	3.4
Benzene		0.69	U	0.32	3.4
Acetone		35		3.7	14
Bromobenzene		0.69	U	0.34	3.4
Bromoform		0.69	U	0.16	3.4
Bromomethane		0.69	U	0.34	6.9
Carbon tetrachloride		0.69	U	0.43	3.4
Carbon disulfide		0.69	U	0.29	3.4
2-Chlorotoluene		0.69	U	0.35	3.4
4-Chlorotoluene		0.69	U	0.53	3.4
Chlorobenzene		0.69	U	0.37	3.4
Chlorobromomethane		0.69	U	0.21	3.4
Chlorodibromomethane		0.69	U	0.39	3.4
Chloroform		0.69	U	0.20	6.9
Chloroethane		0.69	U	0.61	6.9
Chloromethane		0.69	U	0.53	6.9
cis-1,2-Dichloroethene		0.69	U	0.38	3.4
cis-1,3-Dichloropropene		1.4	U	0.88	3.4
Dibromomethane		0.69	U	0.58	3.4
Dichlorobromomethane		0.69	U	0.15	3.4
Dichlorodifluoromethane		0.69	U	0.36	6.9
Ethylbenzene		0.69	U	0.46	3.4
Hexachlorobutadiene		0.69	U	0.38	3.4

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Date Sampled: 08/02/2010 1045

Client Matrix: Solid

% Moisture: 7.9

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7614.D
Dilution:	1.0		Initial Weight/Volume:	6.293 g
Date Analyzed:	08/12/2010 1518		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1045			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		0.69	U	0.40	3.4
Ethylene Dibromide		0.69	U	0.36	3.4
Methylene Chloride		0.69	U	0.51	3.4
Methyl tert-butyl ether		0.69	U	0.23	14
m-Xylene & p-Xylene		1.4	U	0.71	2.2
Naphthalene		0.69	U	0.43	3.4
n-Butylbenzene		0.69	U	0.38	3.4
N-Propylbenzene		0.69	U	0.40	3.4
o-Xylene		0.69	U	0.42	3.4
Styrene		0.69	U	0.43	3.4
sec-Butylbenzene		0.69	U	0.53	3.4
tert-Butylbenzene		0.69	U	0.34	3.4
trans-1,2-Dichloroethene		0.69	U	0.27	3.4
trans-1,3-Dichloropropene		0.69	U	0.46	3.4
Tetrachloroethene		0.69	U	0.40	3.4
Toluene		0.69	U	0.47	3.4
Trichloroethene		0.69	U	0.16	3.4
Trichlorofluoromethane		1.4	U	0.71	6.9
Vinyl chloride		1.4	U	0.92	3.4
Hexane		3.4	U	0.47	3.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	107		85 - 115
1,2-Dichloroethane-d4 (Surr)	78		61 - 129
4-Bromofluorobenzene (Surr)	109		85 - 120
Dibromofluoromethane (Surr)	85		71 - 126

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Client Matrix: Water

Date Sampled: 08/02/2010 0800

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6941.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1136		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1136			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1,1,2-Tetrachloroethane	0.40	U	0.20	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
4-Isopropyltoluene	0.40	U	0.17	1.0
Benzene	0.20	U	0.16	1.0
Acetone	6.4	U	1.9	10
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Carbon disulfide	0.80	U	0.45	2.0
2-Chlorotoluene	0.40	U	0.17	1.0
4-Chlorotoluene	0.40	U	0.17	1.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroform	0.20	U	0.16	1.0
Chloroethane	1.6	U	0.41	2.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Dibromomethane	0.40	U	0.17	1.0
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Client Matrix: Water

Date Sampled: 08/02/2010 0800

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6941.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1136		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1136			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Isopropylbenzene	0.40	U	0.19	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Methylene Chloride	0.61	J	0.32	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
Styrene	0.40	U	0.17	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5
Hexane	2.0	U	0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		85 - 120
1,2-Dichloroethane-d4 (Surr)	90		70 - 120
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane (Surr)	94		85 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6945.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1306		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1306			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
4-Isopropyltoluene	0.40	U	0.17	1.0
Benzene	0.20	U	0.16	1.0
Acetone	1.9	J	1.9	10
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Carbon disulfide	0.80	U	0.45	2.0
2-Chlorotoluene	0.40	U	0.17	1.0
4-Chlorotoluene	0.40	U	0.17	1.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroform	0.20	U	0.16	1.0
Chloroethane	1.6	U	0.41	2.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Dibromomethane	0.40	U	0.17	1.0
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6945.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1306		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1306			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Isopropylbenzene	0.40	U	0.19	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Methylene Chloride	0.36	J	0.32	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
Styrene	0.40	U	0.17	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5
Hexane	2.0	U	0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	110		85 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 120
4-Bromofluorobenzene (Surr)	107		75 - 120
Dibromofluoromethane (Surr)	104		85 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6946.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1327		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1327			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1,1,2-Tetrachloroethane	0.40	U	0.20	1.0
1,2,4-Trimethylbenzene	0.15	J	0.14	1.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
4-Isopropyltoluene	0.40	U	0.17	1.0
Benzene	0.20	U	0.16	1.0
Acetone	4.0	J	1.9	10
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Carbon disulfide	0.80	U	0.45	2.0
2-Chlorotoluene	0.40	U	0.17	1.0
4-Chlorotoluene	0.40	U	0.17	1.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroform	0.20	U	0.16	1.0
Chloroethane	1.6	U	0.41	2.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Dibromomethane	0.40	U	0.17	1.0
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6946.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1327		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1327			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Isopropylbenzene	0.40	U	0.19	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Methylene Chloride	0.38	J	0.32	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
Styrene	0.40	U	0.17	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.31	J	0.17	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5
Hexane	2.0	U	0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	112		85 - 120
1,2-Dichloroethane-d4 (Surr)	105		70 - 120
4-Bromofluorobenzene (Surr)	108		75 - 120
Dibromofluoromethane (Surr)	109		85 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Date Sampled: 08/02/2010 1130

Client Matrix: Solid

% Moisture: 5.4

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7615.D
Dilution:	1.0		Initial Weight/Volume:	5.838 g
Date Analyzed:	08/12/2010 1542		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1130			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		0.78	U	0.43	3.9
1,1,1-Trichloroethane		0.78	U	0.40	3.9
1,2,3-Trichloropropane		0.78	U	0.63	3.9
1,2,3-Trichlorobenzene		0.78	U	0.58	3.9
1,1-Dichloroethane		0.78	U	0.16	3.9
1,2,4-Trichlorobenzene		0.78	U	0.57	3.9
1,2-Dibromo-3-Chloropropane		0.78	U	0.47	7.8
1,1-Dichloropropene		0.78	U	0.42	3.9
1,1-Dichloroethene		0.78	U	0.46	3.9
1,1,2-Trichloroethane		0.78	U	0.68	3.9
1,1,2,2-Tetrachloroethane		0.78	U	0.47	3.9
1,2,4-Trimethylbenzene		0.78	U	0.45	3.9
1,2-Dichlorobenzene		0.78	U	0.35	3.9
1,2-Dichloroethane		0.78	U	0.54	3.9
1,3-Dichlorobenzene		0.78	U	0.37	3.9
1,3-Dichloropropane		0.78	U	0.40	3.9
1,3,5-Trimethylbenzene		0.78	U	0.44	3.9
2-Butanone (MEK)		7.8	U	1.4	16
1,4-Dichlorobenzene		0.78	U	0.60	3.9
1,2-Dichloropropane		0.78	U	0.43	3.9
2,2-Dichloropropane		0.78	U	0.34	3.9
2-Hexanone		7.8	U	3.8	16
4-Methyl-2-pentanone (MIBK)		7.8	U	3.4	16
4-Isopropyltoluene		1.0	J	0.38	3.9
Benzene		0.78	U	0.36	3.9
Acetone		17		4.2	16
Bromobenzene		0.78	U	0.38	3.9
Bromoform		0.78	U	0.18	3.9
Bromomethane		0.78	U	0.39	7.8
Carbon tetrachloride		0.78	U	0.49	3.9
Carbon disulfide		0.78	U	0.33	3.9
2-Chlorotoluene		0.78	U	0.40	3.9
4-Chlorotoluene		0.78	U	0.60	3.9
Chlorobenzene		0.78	U	0.42	3.9
Chlorobromomethane		0.78	U	0.23	3.9
Chlorodibromomethane		0.78	U	0.44	3.9
Chloroform		0.78	U	0.22	7.8
Chloroethane		0.78	U	0.69	7.8
Chloromethane		0.78	U	0.60	7.8
cis-1,2-Dichloroethene		2.8	J	0.43	3.9
cis-1,3-Dichloropropene		1.6	U	1.0	3.9
Dibromomethane		0.78	U	0.65	3.9
Dichlorobromomethane		0.78	U	0.17	3.9
Dichlorodifluoromethane		0.78	U	0.40	7.8
Ethylbenzene		0.78	U	0.52	3.9
Hexachlorobutadiene		0.78	U	0.43	3.9

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Date Sampled: 08/02/2010 1130

Client Matrix: Solid

% Moisture: 5.4

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26762	Instrument ID:	MSV_G
Preparation:	5035	Prep Batch: 280-26668	Lab File ID:	G7615.D
Dilution:	1.0		Initial Weight/Volume:	5.838 g
Date Analyzed:	08/12/2010 1542		Final Weight/Volume:	5 mL
Date Prepared:	08/02/2010 1130			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		0.78	U	0.46	3.9
Ethylene Dibromide		0.78	U	0.40	3.9
Methylene Chloride		0.78	U	0.58	3.9
Methyl tert-butyl ether		0.78	U	0.26	16
m-Xylene & p-Xylene		1.6	U	0.81	2.5
Naphthalene		0.78	U	0.49	3.9
n-Butylbenzene		0.78	U	0.43	3.9
N-Propylbenzene		0.78	U	0.45	3.9
o-Xylene		0.78	U	0.47	3.9
Styrene		0.78	U	0.49	3.9
sec-Butylbenzene		0.78	U	0.60	3.9
tert-Butylbenzene		0.78	U	0.39	3.9
trans-1,2-Dichloroethene		0.78	U	0.30	3.9
trans-1,3-Dichloropropene		0.78	U	0.52	3.9
Tetrachloroethene		0.78	U	0.46	3.9
Toluene		0.78	U	0.54	3.9
Trichloroethene		0.78	U	0.18	3.9
Trichlorofluoromethane		1.6	U	0.81	7.8
Vinyl chloride		1.6	U	1.0	3.9
Hexane		3.9	U	0.53	3.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		85 - 115
1,2-Dichloroethane-d4 (Surr)	78		61 - 129
4-Bromofluorobenzene (Surr)	102		85 - 120
Dibromofluoromethane (Surr)	91		71 - 126

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-6075-9TB

Client Matrix: WQ

Date Sampled: 08/02/2010 0000

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6947.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1349		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1349			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1,1,2-Tetrachloroethane	0.40	U	0.20	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
4-Isopropyltoluene	0.40	U	0.17	1.0
Benzene	0.20	U	0.16	1.0
Acetone	2.5	J	1.9	10
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Carbon disulfide	0.80	U	0.45	2.0
2-Chlorotoluene	0.40	U	0.17	1.0
4-Chlorotoluene	0.40	U	0.17	1.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroform	0.20	U	0.16	1.0
Chloroethane	1.6	U	0.41	2.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Dibromomethane	0.40	U	0.17	1.0
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-6075-9TB

Client Matrix: WQ

Date Sampled: 08/02/2010 0000

Date Received: 08/06/2010 1000

8260B/DoD Volatile Organic Compounds (GC/MS)

Method:	8260B/DoD	Analysis Batch: 280-26526	Instrument ID:	MSV_H
Preparation:	5030B		Lab File ID:	H6947.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	08/11/2010 1349		Final Weight/Volume:	20 mL
Date Prepared:	08/11/2010 1349			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Isopropylbenzene	0.40	U	0.19	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Methylene Chloride	0.42	J	0.32	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
Styrene	0.40	U	0.17	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5
Hexane	2.0	U	0.42	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	113		85 - 120
1,2-Dichloroethane-d4 (Surr)	108		70 - 120
4-Bromofluorobenzene (Surr)	109		75 - 120
Dibromofluoromethane (Surr)	110		85 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Date Sampled: 08/02/2010 0945

Client Matrix: Solid

% Moisture: 13.5

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7591.D
Dilution:	1.0		Initial Weight/Volume:	30.2 g
Date Analyzed:	08/17/2010 2142		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		20	U	12	380
Acenaphthylene		38	U	20	380
Anthracene		38	U	20	380
Benzidine		4500	U	1100	4600
Benzo[a]anthracene		38	U	23	380
Benzoic acid		760	U Q	380	1800
Benzo[b]fluoranthene		38	U	30	380
Benzo[k]fluoranthene		76	U	46	380
Benzyl alcohol		38	U	11	380
Bis(2-chloroethoxy)methane		76	U	26	380
Bis(2-chloroethyl)ether		38	U	19	380
4-Bromophenyl phenyl ether		38	U	22	380
Butyl benzyl phthalate		76	U	49	380
2,4-Dimethylphenol		150	U	76	380
Dimethyl phthalate		38	U	26	380
4,6-Dinitro-2-methylphenol		760	U Q	380	1800
2,4-Dinitrophenol		770	U Q	380	1800
2,4-Dinitrotoluene		150	U	76	380
2,6-Dinitrotoluene		76	U	32	380
Fluoranthene		76	U	41	380
Fluorene		38	U	21	380
1,2-Diphenylhydrazine		38	U	25	380
Hexachlorobenzene		76	U	33	380
Hexachlorobutadiene		76	U	11	380
Hexachloroethane		38	U	24	380
N-Nitrosodiphenylamine		38	U	24	380
N-Nitrosodi-n-propylamine		76	U	36	380
1,4-Dichlorobenzene		38	U	16	380
2-Chloronaphthalene		38	U	11	380
2-Chlorophenol		38	U	24	380
4-Chlorophenyl phenyl ether		76	U	24	380
Chrysene		38	U	31	380
Dibenz(a,h)anthracene		38	U	22	380
Dibenzofuran		38	U	23	380
Benzo[g,h,i]perylene		38	U	18	380
Benzo[a]pyrene		38	U	23	380
Di-n-butyl phthalate		38	U	33	380
1,2-Dichlorobenzene		38	U	25	380
1,3-Dichlorobenzene		38	U	14	380
3,3'-Dichlorobenzidine		380	U	100	1800
2,4-Dichlorophenol		76	U	11	380
Diethyl phthalate		38	U	30	760
Indeno[1,2,3-cd]pyrene		38	U	25	380
Isophorone		38	U	20	380
2-Methylnaphthalene		38	U	22	380
2-Methylphenol		38	U	15	380

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Date Sampled: 08/02/2010 0945

Client Matrix: Solid

% Moisture: 13.5

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7591.D
Dilution:	1.0		Initial Weight/Volume:	30.2 g
Date Analyzed:	08/17/2010 2142		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Naphthalene		76	U	36	380
2-Nitroaniline		76	U	57	1800
3-Nitroaniline		76	U	84	1800
4-Nitroaniline		150	U	83	1800
Nitrobenzene		38	U	25	380
2-Nitrophenol		76	U	11	380
4-Nitrophenol		380	U	110	1800
Pyrene		38	U	14	460
Pentachlorophenol		770	U	380	1800
Phenanthrene		38	U	20	380
1,2,4-Trichlorobenzene		38	U	32	380
2,4,5-Trichlorophenol		150	U	11	380
2,4,6-Trichlorophenol		76	U	11	380
Phenol		38	U	21	380
Carbazole		38	U	41	380
N-Nitrosodimethylamine		76	U	43	600
Bis(2-ethylhexyl) phthalate		76	U	53	380
Di-n-octyl phthalate		76	U	17	380
3 & 4 Methylphenol		76	U	38	380
4-Chloro-3-methylphenol		150	U	76	380
2,2'-oxybis[1-chloropropane]		38	U	26	380
4-Chloroaniline		150	U	94	380
2,6-Dichlorophenol		150	U	79	380
N-Nitrosopyrrolidine		150	U	74	380

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	74		45 - 105
2-Fluorophenol (Surr)	75		35 - 105
Nitrobenzene-d5 (Surr)	66		35 - 100
Terphenyl-d14 (Surr)	95		30 - 125
2,4,6-Tribromophenol (Surr)	89		35 - 125
Phenol-d5 (Surr)	78		40 - 100

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

% Moisture: 6.7

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7592.D
Dilution:	1.0		Initial Weight/Volume:	31.1 g
Date Analyzed:	08/17/2010 2201		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		18	U	11	340
Acenaphthylene		34	U	18	340
Anthracene		34	U	18	340
Benzidine		4100	U	1000	4100
Benzo[a]anthracene		34	U	21	340
Benzoic acid		680	U Q	340	1700
Benzo[b]fluoranthene		39	J K	27	340
Benzo[k]fluoranthene		68	U K	41	340
Benzyl alcohol		34	U	10	340
Bis(2-chloroethoxy)methane		68	U	24	340
Bis(2-chloroethyl)ether		34	U	17	340
4-Bromophenyl phenyl ether		34	U	20	340
Butyl benzyl phthalate		68	U	44	340
2,4-Dimethylphenol		130	U	68	340
Dimethyl phthalate		34	U	24	340
4,6-Dinitro-2-methylphenol		680	U Q	340	1700
2,4-Dinitrophenol		690	U Q	340	1700
2,4-Dinitrotoluene		130	U	68	340
2,6-Dinitrotoluene		68	U	29	340
Fluoranthene		68	U	37	340
Fluorene		34	U	19	340
1,2-Diphenylhydrazine		34	U	23	340
Hexachlorobenzene		68	U	30	340
Hexachlorobutadiene		68	U	10	340
Hexachloroethane		34	U	22	340
N-Nitrosodiphenylamine		34	U	22	340
N-Nitrosodi-n-propylamine		68	U	32	340
1,4-Dichlorobenzene		34	U	14	340
2-Chloronaphthalene		34	U	10	340
2-Chlorophenol		34	U	22	340
4-Chlorophenyl phenyl ether		68	U	22	340
Chrysene		34	U	28	340
Dibenz(a,h)anthracene		34	U	20	340
Dibenzofuran		34	U	21	340
Benzo[g,h,i]perylene		17	J	17	340
Benzo[a]pyrene		34	U	21	340
Di-n-butyl phthalate		34	U	30	340
1,2-Dichlorobenzene		34	U	23	340
1,3-Dichlorobenzene		34	U	12	340
3,3'-Dichlorobenzidine		340	U	93	1700
2,4-Dichlorophenol		68	U	10	340
Diethyl phthalate		34	U	27	680
Indeno[1,2,3-cd]pyrene		34	U	23	340
Isophorone		34	U	18	340
2-Methylnaphthalene		34	U	20	340
2-Methylphenol		34	U	13	340

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

% Moisture: 6.7

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7592.D
Dilution:	1.0		Initial Weight/Volume:	31.1 g
Date Analyzed:	08/17/2010 2201		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Naphthalene		68	U	32	340
2-Nitroaniline		68	U	52	1700
3-Nitroaniline		68	U	75	1700
4-Nitroaniline		130	U	75	1700
Nitrobenzene		34	U	23	340
2-Nitrophenol		68	U	10	340
4-Nitrophenol		340	U	100	1700
Pyrene		22	J	13	410
Pentachlorophenol		690	U	340	1700
Phenanthrene		34	U	18	340
1,2,4-Trichlorobenzene		34	U	29	340
2,4,5-Trichlorophenol		130	U	10	340
2,4,6-Trichlorophenol		68	U	10	340
Phenol		34	U	19	340
Carbazole		34	U	37	340
N-Nitrosodimethylamine		68	U	38	540
Bis(2-ethylhexyl) phthalate		68	U	48	340
Di-n-octyl phthalate		68	U	15	340
3 & 4 Methylphenol		68	U	34	340
4-Chloro-3-methylphenol		130	U	68	340
2,2'-oxybis[1-chloropropane]		34	U	24	340
4-Chloroaniline		130	U	85	340
2,6-Dichlorophenol		130	U	71	340
N-Nitrosopyrrolidine		130	U	66	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	71		45 - 105
2-Fluorophenol (Surr)	70		35 - 105
Nitrobenzene-d5 (Surr)	64		35 - 100
Terphenyl-d14 (Surr)	89		30 - 125
2,4,6-Tribromophenol (Surr)	88		35 - 125
Phenol-d5 (Surr)	73		40 - 100

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Date Sampled: 08/02/2010 1030

Client Matrix: Solid

% Moisture: 12.1

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7593.D
Dilution:	1.0		Initial Weight/Volume:	30.8 g
Date Analyzed:	08/17/2010 2219		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		19	U	11	370
Acenaphthylene		37	U	19	370
Anthracene		37	U	19	370
Benidine		4400	U	1100	4400
Benzo[a]anthracene		32	J	22	370
Benzoic acid		450	J Q	370	1800
Benzo[b]fluoranthene		72	J K	29	370
Benzo[k]fluoranthene		73	U K	44	370
Benzyl alcohol		37	U	11	370
Bis(2-chloroethoxy)methane		73	U	25	370
Bis(2-chloroethyl)ether		37	U	18	370
4-Bromophenyl phenyl ether		37	U	21	370
Butyl benzyl phthalate		73	U	48	370
2,4-Dimethylphenol		140	U	73	370
Dimethyl phthalate		37	U	25	370
4,6-Dinitro-2-methylphenol		730	U Q	370	1800
2,4-Dinitrophenol		740	U Q	370	1800
2,4-Dinitrotoluene		140	U	73	370
2,6-Dinitrotoluene		73	U	31	370
Fluoranthene		45	J	40	370
Fluorene		37	U	20	370
1,2-Diphenylhydrazine		37	U	24	370
Hexachlorobenzene		73	U	32	370
Hexachlorobutadiene		73	U	11	370
Hexachloroethane		37	U	24	370
N-Nitrosodiphenylamine		37	U	23	370
N-Nitrosodi-n-propylamine		73	U	34	370
1,4-Dichlorobenzene		37	U	15	370
2-Chloronaphthalene		37	U	11	370
2-Chlorophenol		37	U	23	370
4-Chlorophenyl phenyl ether		73	U	23	370
Chrysene		42	J	30	370
Dibenz(a,h)anthracene		37	U	21	370
Dibenzofuran		37	U	22	370
Benzo[g,h,i]perylene		24	J M	18	370
Benzo[a]pyrene		26	J M	22	370
Di-n-butyl phthalate		37	U	32	370
1,2-Dichlorobenzene		37	U	24	370
1,3-Dichlorobenzene		37	U	13	370
3,3'-Dichlorobenzidine		370	U	100	1800
2,4-Dichlorophenol		73	U	11	370
Diethyl phthalate		37	U	29	730
Indeno[1,2,3-cd]pyrene		37	U	24	370
Isophorone		37	U	19	370
2-Methylnaphthalene		37	U	21	370
2-Methylphenol		37	U	14	370

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Date Sampled: 08/02/2010 1030

Client Matrix: Solid

% Moisture: 12.1

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7593.D
Dilution:	1.0		Initial Weight/Volume:	30.8 g
Date Analyzed:	08/17/2010 2219		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Naphthalene		73	U	34	370
2-Nitroaniline		73	U	55	1800
3-Nitroaniline		73	U	81	1800
4-Nitroaniline		140	U	80	1800
Nitrobenzene		37	U	24	370
2-Nitrophenol		73	U	11	370
4-Nitrophenol		370	U	110	1800
Pyrene		47	J	13	440
Pentachlorophenol		740	U	370	1800
Phenanthrene		37	U	19	370
1,2,4-Trichlorobenzene		37	U	31	370
2,4,5-Trichlorophenol		140	U	11	370
2,4,6-Trichlorophenol		73	U	11	370
Phenol		37	U	20	370
Carbazole		37	U	40	370
N-Nitrosodimethylamine		73	U	41	580
Bis(2-ethylhexyl) phthalate		110	J	51	370
Di-n-octyl phthalate		73	U	16	370
3 & 4 Methylphenol		73	U	37	370
4-Chloro-3-methylphenol		140	U	73	370
2,2'-oxybis[1-chloropropane]		37	U	25	370
4-Chloroaniline		140	U	91	370
2,6-Dichlorophenol		140	U	76	370
N-Nitrosopyrrolidine		140	U	71	370

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	69		45 - 105
2-Fluorophenol (Surr)	75		35 - 105
Nitrobenzene-d5 (Surr)	65		35 - 100
Terphenyl-d14 (Surr)	84		30 - 125
2,4,6-Tribromophenol (Surr)	78		35 - 125
Phenol-d5 (Surr)	76		40 - 100

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Date Sampled: 08/02/2010 1045

Client Matrix: Solid

% Moisture: 7.9

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7594.D
Dilution:	1.0		Initial Weight/Volume:	30.2 g
Date Analyzed:	08/17/2010 2238		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		18	U	11	360
Acenaphthylene		36	U	18	360
Anthracene		36	U	18	360
Benidine		4300	U	1100	4300
Benzo[a]anthracene		30	J	22	360
Benzoic acid		710	U Q	360	1700
Benzo[b]fluoranthene		85	J K	28	360
Benzo[k]fluoranthene		71	U K	43	360
Benzyl alcohol		36	U	11	360
Bis(2-chloroethoxy)methane		71	U	25	360
Bis(2-chloroethyl)ether		36	U	18	360
4-Bromophenyl phenyl ether		36	U	20	360
Butyl benzyl phthalate		71	U	46	360
2,4-Dimethylphenol		140	U	71	360
Dimethyl phthalate		36	U	25	360
4,6-Dinitro-2-methylphenol		710	U Q	360	1700
2,4-Dinitrophenol		720	U Q	360	1700
2,4-Dinitrotoluene		140	U	71	360
2,6-Dinitrotoluene		71	U	30	360
Fluoranthene		54	J	39	360
Fluorene		36	U	19	360
1,2-Diphenylhydrazine		36	U	24	360
Hexachlorobenzene		71	U	31	360
Hexachlorobutadiene		71	U	11	360
Hexachloroethane		36	U	23	360
N-Nitrosodiphenylamine		36	U	23	360
N-Nitrosodi-n-propylamine		71	U	33	360
1,4-Dichlorobenzene		36	U	15	360
2-Chloronaphthalene		36	U	11	360
2-Chlorophenol		36	U	23	360
4-Chlorophenyl phenyl ether		71	U	23	360
Chrysene		44	J	29	360
Dibenz(a,h)anthracene		36	U	20	360
Dibenzofuran		36	U	22	360
Benzo[g,h,i]perylene		27	J M	17	360
Benzo[a]pyrene		26	J M	22	360
Di-n-butyl phthalate		36	U	31	360
1,2-Dichlorobenzene		36	U	24	360
1,3-Dichlorobenzene		36	U	13	360
3,3'-Dichlorobenzidine		360	U	97	1700
2,4-Dichlorophenol		71	U	11	360
Diethyl phthalate		36	U	28	710
Indeno[1,2,3-cd]pyrene		24	J M	24	360
Isophorone		36	U	18	360
2-Methylnaphthalene		36	U	20	360
2-Methylphenol		36	U	14	360

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Date Sampled: 08/02/2010 1045

Client Matrix: Solid

% Moisture: 7.9

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7594.D
Dilution:	1.0		Initial Weight/Volume:	30.2 g
Date Analyzed:	08/17/2010 2238		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Naphthalene		71	U	33	360
2-Nitroaniline		71	U	54	1700
3-Nitroaniline		71	U	79	1700
4-Nitroaniline		140	U	78	1700
Nitrobenzene		36	U	24	360
2-Nitrophenol		71	U	11	360
4-Nitrophenol		360	U	100	1700
Pyrene		50	J	13	430
Pentachlorophenol		720	U	360	1700
Phenanthrene		36	U	18	360
1,2,4-Trichlorobenzene		36	U	30	360
2,4,5-Trichlorophenol		140	U	11	360
2,4,6-Trichlorophenol		71	U	11	360
Phenol		36	U	19	360
Carbazole		36	U	39	360
N-Nitrosodimethylamine		71	U	40	560
Bis(2-ethylhexyl) phthalate		970		50	360
Di-n-octyl phthalate		71	U	16	360
3 & 4 Methylphenol		71	U	36	360
4-Chloro-3-methylphenol		140	U	71	360
2,2'-oxybis[1-chloropropane]		36	U	25	360
4-Chloroaniline		140	U	88	360
2,6-Dichlorophenol		140	U	74	360
N-Nitrosopyrrolidine		140	U	69	360

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		45 - 105
2-Fluorophenol (Surr)	78		35 - 105
Nitrobenzene-d5 (Surr)	69		35 - 100
Terphenyl-d14 (Surr)	97		30 - 125
2,4,6-Tribromophenol (Surr)	95		35 - 125
Phenol-d5 (Surr)	82		40 - 100

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Client Matrix: Water

Date Sampled: 08/02/2010 0800

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27824	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-25954	Lab File ID:	D7636.D
Dilution:	1.0		Initial Weight/Volume:	1058 mL
Date Analyzed:	08/19/2010 1957		Final Weight/Volume:	1000 uL
Date Prepared:	08/07/2010 1612		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acenaphthene	0.95	U Q	0.26	9.5
Acenaphthylene	0.95	U Q	0.46	9.5
Anthracene	0.95	U	0.40	9.5
Benzidine	95	U	47	190
Benzo[a]anthracene	0.95	U	0.33	9.5
Benzoic acid	47	U	9.5	76
Benzo[b]fluoranthene	0.95	U	0.50	9.5
Benzo[k]fluoranthene	0.95	U	0.43	9.5
Benzyl alcohol	0.95	U	0.22	24
Bis(2-chloroethoxy)methane	3.8	U	0.92	9.5
Bis(2-chloroethyl)ether	0.95	U	0.39	19
4-Bromophenyl phenyl ether	0.95	U	0.41	9.5
Butyl benzyl phthalate	3.8	U	0.95	19
2,4-Dimethylphenol	3.8	U	0.55	9.5
Dimethyl phthalate	0.95	U	0.20	19
4,6-Dinitro-2-methylphenol	9.5	U	3.8	76
2,4-Dinitrophenol	19	U	9.5	76
2,4-Dinitrotoluene	3.8	U	1.6	19
2,6-Dinitrotoluene	3.8	U	1.8	19
Fluoranthene	0.95	U	0.19	19
Fluorene	0.95	U	0.29	9.5
1,2-Diphenylhydrazine	0.95	U	0.22	9.5
Hexachlorobenzene	0.95	U	0.62	9.5
Hexachlorobutadiene	9.5	U	3.1	28
Hexachloroethane	0.95	U	2.0	9.5
N-Nitrosodiphenylamine	0.95	U	0.42	9.5
N-Nitrosodi-n-propylamine	0.95	U	0.33	19
1,4-Dichlorobenzene	0.95	U	0.30	9.5
2-Chloronaphthalene	0.95	U Q	0.25	9.5
2-Chlorophenol	3.8	U	1.9	9.5
4-Chlorophenyl phenyl ether	3.8	U	1.6	9.5
Chrysene	0.95	U	0.51	9.5
Dibenz(a,h)anthracene	0.95	U	0.48	9.5
Dibenzofuran	0.95	U Q	0.27	9.5
Benzo[g,h,i]perylene	0.95	U	0.47	9.5
Benzo[a]pyrene	0.95	U	0.29	9.5
Di-n-butyl phthalate	3.8	U	1.1	19
1,2-Dichlorobenzene	0.95	U	0.22	9.5
1,3-Dichlorobenzene	0.95	U	0.28	9.5
3,3'-Dichlorobenzidine	9.5	U	1.9	47
2,4-Dichlorophenol	1.9	U	0.60	9.5
Diethyl phthalate	0.95	U	0.36	19
Indeno[1,2,3-cd]pyrene	0.95	U	0.61	9.5
Isophorone	0.95	U	0.20	9.5
2-Methylnaphthalene	0.95	U Q	0.27	9.5
2-Methylphenol	3.8	U	0.93	9.5

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Client Matrix: Water

Date Sampled: 08/02/2010 0800

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27824	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-25954	Lab File ID:	D7636.D
Dilution:	1.0		Initial Weight/Volume:	1058 mL
Date Analyzed:	08/19/2010 1957		Final Weight/Volume:	1000 uL
Date Prepared:	08/07/2010 1612		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Naphthalene	0.95	U	0.27	9.5
2-Nitroaniline	3.8	U	1.6	47
3-Nitroaniline	1.9	U	1.9	47
4-Nitroaniline	3.8	U	1.9	47
Nitrobenzene	1.9	U	0.77	19
2-Nitrophenol	0.95	U	0.37	19
4-Nitrophenol	0.95	U	1.2	47
Pyrene	0.95	U	0.35	9.5
Pentachlorophenol	38	U	19	76
Phenanthrene	0.95	U	0.25	9.5
1,2,4-Trichlorobenzene	0.95	U Q	0.26	9.5
2,4,5-Trichlorophenol	0.95	U	0.43	19
2,4,6-Trichlorophenol	0.95	U	0.27	19
Phenol	0.95	U	1.9	9.5
Carbazole	0.95	U	0.41	9.5
N-Nitrosodimethylamine	0.95	U	0.27	9.5
Bis(2-ethylhexyl) phthalate	0.95	U	0.53	9.5
Di-n-octyl phthalate	0.95	U	0.33	19
3 & 4 Methylphenol	0.95	U	0.24	19
4-Chloro-3-methylphenol	4.7	U	2.3	19
2,2'-oxybis[1-chloropropane]	0.95	U	0.26	9.5
4-Chloroaniline	4.7	U	2.0	24
2,6-Dichlorophenol	3.8	U	1.3	9.5
N-Nitrosopyrrolidine	3.8	U	0.76	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		50 - 110
2-Fluorophenol (Surr)	85		20 - 110
Nitrobenzene-d5 (Surr)	83		40 - 110
Terphenyl-d14 (Surr)	107		50 - 135
2,4,6-Tribromophenol (Surr)	106		40 - 125
Phenol-d5 (Surr)	94		10 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27824	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-25954	Lab File ID:	D7637.D
Dilution:	1.0		Initial Weight/Volume:	1064 mL
Date Analyzed:	08/19/2010 2016		Final Weight/Volume:	1000 uL
Date Prepared:	08/07/2010 1612		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acenaphthene	0.94	U Q	0.26	9.4
Acenaphthylene	0.94	U Q	0.46	9.4
Anthracene	0.94	U	0.39	9.4
Benzidine	94	U	47	190
Benzo[a]anthracene	0.94	U	0.33	9.4
Benzoic acid	47	U	9.4	75
Benzo[b]fluoranthene	0.94	U	0.50	9.4
Benzo[k]fluoranthene	0.94	U	0.43	9.4
Benzyl alcohol	0.94	U	0.22	23
Bis(2-chloroethoxy)methane	3.8	U	0.91	9.4
Bis(2-chloroethyl)ether	0.94	U	0.39	19
4-Bromophenyl phenyl ether	0.94	U	0.40	9.4
Butyl benzyl phthalate	3.8	U	0.94	19
2,4-Dimethylphenol	3.8	U	0.55	9.4
Dimethyl phthalate	0.94	U	0.20	19
4,6-Dinitro-2-methylphenol	9.4	U	3.8	75
2,4-Dinitrophenol	19	U	9.4	75
2,4-Dinitrotoluene	3.8	U	1.6	19
2,6-Dinitrotoluene	3.8	U	1.8	19
Fluoranthene	0.94	U	0.19	19
Fluorene	0.94	U	0.29	9.4
1,2-Diphenylhydrazine	0.94	U	0.22	9.4
Hexachlorobenzene	0.94	U	0.62	9.4
Hexachlorobutadiene	9.4	U	3.1	28
Hexachloroethane	0.94	U	2.0	9.4
N-Nitrosodiphenylamine	0.94	U	0.41	9.4
N-Nitrosodi-n-propylamine	0.94	U	0.33	19
1,4-Dichlorobenzene	0.94	U	0.30	9.4
2-Chloronaphthalene	0.94	U Q	0.24	9.4
2-Chlorophenol	3.8	U	1.9	9.4
4-Chlorophenyl phenyl ether	3.8	U	1.6	9.4
Chrysene	0.94	U	0.51	9.4
Dibenz(a,h)anthracene	0.94	U	0.48	9.4
Dibenzofuran	0.94	U Q	0.27	9.4
Benzo[g,h,i]perylene	0.94	U	0.47	9.4
Benzo[a]pyrene	0.94	U	0.29	9.4
Di-n-butyl phthalate	3.8	U	1.1	19
1,2-Dichlorobenzene	0.94	U	0.22	9.4
1,3-Dichlorobenzene	0.94	U	0.28	9.4
3,3'-Dichlorobenzidine	9.4	U	1.9	47
2,4-Dichlorophenol	1.9	U	0.60	9.4
Diethyl phthalate	0.94	U	0.36	19
Indeno[1,2,3-cd]pyrene	0.94	U	0.61	9.4
Isophorone	0.94	U	0.20	9.4
2-Methylnaphthalene	0.94	U Q	0.27	9.4
2-Methylphenol	3.8	U	0.92	9.4

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27824	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-25954	Lab File ID:	D7637.D
Dilution:	1.0		Initial Weight/Volume:	1064 mL
Date Analyzed:	08/19/2010 2016		Final Weight/Volume:	1000 uL
Date Prepared:	08/07/2010 1612		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Naphthalene	0.94	U	0.27	9.4
2-Nitroaniline	3.8	U	1.6	47
3-Nitroaniline	1.9	U	1.9	47
4-Nitroaniline	3.8	U	1.9	47
Nitrobenzene	1.9	U	0.76	19
2-Nitrophenol	0.94	U	0.37	19
4-Nitrophenol	0.94	U	1.2	47
Pyrene	0.94	U	0.35	9.4
Pentachlorophenol	38	U	19	75
Phenanthrene	0.94	U	0.24	9.4
1,2,4-Trichlorobenzene	0.94	U Q	0.26	9.4
2,4,5-Trichlorophenol	0.94	U	0.42	19
2,4,6-Trichlorophenol	0.94	U	0.27	19
Phenol	0.94	U	1.9	9.4
Carbazole	0.94	U	0.40	9.4
N-Nitrosodimethylamine	0.94	U	0.27	9.4
Bis(2-ethylhexyl) phthalate	0.94	U	0.53	9.4
Di-n-octyl phthalate	0.94	U	0.33	19
3 & 4 Methylphenol	0.94	U	0.23	19
4-Chloro-3-methylphenol	4.7	U	2.3	19
2,2'-oxybis[1-chloropropane]	0.94	U	0.26	9.4
4-Chloroaniline	4.7	U	2.0	23
2,6-Dichlorophenol	3.8	U	1.3	9.4
N-Nitrosopyrrolidine	3.8	U	0.76	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 110
2-Fluorophenol (Surr)	85		20 - 110
Nitrobenzene-d5 (Surr)	82		40 - 110
Terphenyl-d14 (Surr)	109		50 - 135
2,4,6-Tribromophenol (Surr)	103		40 - 125
Phenol-d5 (Surr)	92		10 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-29378	Instrument ID:	MSS_B
Preparation:	3520C	Prep Batch: 280-28094	Lab File ID:	B9904.D
Dilution:	1.0		Initial Weight/Volume:	1059 mL
Date Analyzed:	08/28/2010 2153	Run Type: RE	Final Weight/Volume:	1000 uL
Date Prepared:	08/23/2010 1415		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acenaphthene	0.94	U H	0.26	9.4
Acenaphthylene	0.94	U H	0.46	9.4
Anthracene	0.94	U H	0.40	9.4
Benzidine	94	U H	47	190
Benzo[a]anthracene	0.94	U H	0.33	9.4
Benzoic acid	47	U H	9.4	76
Benzo[b]fluoranthene	0.94	U H	0.50	9.4
Benzo[k]fluoranthene	0.94	U H	0.43	9.4
Benzyl alcohol	0.28	J H	0.22	24
Bis(2-chloroethoxy)methane	3.8	U H	0.92	9.4
Bis(2-chloroethyl)ether	0.94	U H	0.39	19
4-Bromophenyl phenyl ether	0.94	U H	0.41	9.4
Butyl benzyl phthalate	3.8	U H	0.94	19
2,4-Dimethylphenol	3.8	U H	0.55	9.4
Dimethyl phthalate	0.94	U H	0.20	19
4,6-Dinitro-2-methylphenol	9.4	U H	3.8	76
2,4-Dinitrophenol	19	U H	9.4	76
2,4-Dinitrotoluene	3.8	U H	1.6	19
2,6-Dinitrotoluene	3.8	U H	1.8	19
Fluoranthene	0.94	U H	0.19	19
Fluorene	0.94	U H	0.29	9.4
1,2-Diphenylhydrazine	0.94	U H	0.22	9.4
Hexachlorobenzene	0.94	U H	0.62	9.4
Hexachlorobutadiene	9.4	U H	3.1	28
Hexachloroethane	0.94	U H	2.0	9.4
N-Nitrosodiphenylamine	0.94	U H	0.42	9.4
N-Nitrosodi-n-propylamine	0.94	U H	0.33	19
1,4-Dichlorobenzene	0.94	U H	0.30	9.4
2-Chloronaphthalene	0.94	U H	0.25	9.4
2-Chlorophenol	3.8	U H	1.9	9.4
4-Chlorophenyl phenyl ether	3.8	U H	1.6	9.4
Chrysene	0.94	U H	0.51	9.4
Dibenz(a,h)anthracene	0.94	U H	0.48	9.4
Dibenzofuran	0.94	U H	0.27	9.4
Benzo[g,h,i]perylene	0.94	U H	0.47	9.4
Benzo[a]pyrene	0.94	U H	0.29	9.4
Di-n-butyl phthalate	3.8	U H	1.1	19
1,2-Dichlorobenzene	0.94	U H	0.22	9.4
1,3-Dichlorobenzene	0.94	U H	0.28	9.4
3,3'-Dichlorobenzidine	9.4	U H	1.9	47
2,4-Dichlorophenol	1.9	U H	0.60	9.4
Diethyl phthalate	0.94	U H	0.36	19
Indeno[1,2,3-cd]pyrene	0.94	U H	0.61	9.4
Isophorone	0.94	U H	0.20	9.4
2-Methylnaphthalene	0.94	U H	0.27	9.4
2-Methylphenol	3.8	U H	0.93	9.4

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-29378	Instrument ID:	MSS_B
Preparation:	3520C	Prep Batch: 280-28094	Lab File ID:	B9904.D
Dilution:	1.0		Initial Weight/Volume:	1059 mL
Date Analyzed:	08/28/2010 2153	Run Type: RE	Final Weight/Volume:	1000 uL
Date Prepared:	08/23/2010 1415		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Naphthalene	0.94	U H	0.27	9.4
2-Nitroaniline	3.8	U H	1.6	47
3-Nitroaniline	1.9	U H	1.9	47
4-Nitroaniline	3.8	U H	1.9	47
Nitrobenzene	1.9	U H	0.76	19
2-Nitrophenol	0.94	U H	0.37	19
4-Nitrophenol	9.4	U H	1.2	47
Pyrene	0.94	U H	0.35	9.4
Pentachlorophenol	38	U H	19	76
Phenanthrene	1.2	J H	0.25	9.4
1,2,4-Trichlorobenzene	0.94	U H	0.26	9.4
2,4,5-Trichlorophenol	0.94	U H	0.42	19
2,4,6-Trichlorophenol	0.94	U H	0.27	19
Phenol	4.7	U H	1.9	9.4
Carbazole	0.94	U H	0.41	9.4
N-Nitrosodimethylamine	0.94	U H	0.27	9.4
Bis(2-ethylhexyl) phthalate	2.8	J H	0.53	9.4
Di-n-octyl phthalate	0.94	U H	0.33	19
3 & 4 Methylphenol	0.94	U H	0.24	19
4-Chloro-3-methylphenol	4.7	U H	2.3	19
2,2'-oxybis[1-chloropropane]	0.94	U H	0.26	9.4
4-Chloroaniline	4.7	U H	2.0	24
2,6-Dichlorophenol	3.8	U H	1.3	9.4
N-Nitrosopyrrolidine	3.8	U H	0.76	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	68		50 - 110
2-Fluorophenol (Surr)	80		20 - 110
Nitrobenzene-d5 (Surr)	83		40 - 110
Terphenyl-d14 (Surr)	83		50 - 135
2,4,6-Tribromophenol (Surr)	86		40 - 125
Phenol-d5 (Surr)	83		10 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27824	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-25954	Lab File ID:	D7638.D
Dilution:	1.0		Initial Weight/Volume:	1060 mL
Date Analyzed:	08/19/2010 2034		Final Weight/Volume:	1000 uL
Date Prepared:	08/07/2010 1612		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Acenaphthene	0.94	U Q	0.26	9.4
Acenaphthylene	0.94	U Q	0.46	9.4
Anthracene	0.94	U	0.40	9.4
Benzidine	94	U	47	190
Benzo[a]anthracene	0.94	U	0.33	9.4
Benzoic acid	47	U	9.4	75
Benzo[b]fluoranthene	0.94	U	0.50	9.4
Benzo[k]fluoranthene	0.94	U	0.43	9.4
Benzyl alcohol	0.94	U	0.22	24
Bis(2-chloroethoxy)methane	3.8	U	0.92	9.4
Bis(2-chloroethyl)ether	0.94	U	0.39	19
4-Bromophenyl phenyl ether	0.94	U	0.41	9.4
Butyl benzyl phthalate	3.8	U	0.94	19
2,4-Dimethylphenol	3.8	U	0.55	9.4
Dimethyl phthalate	0.94	U	0.20	19
4,6-Dinitro-2-methylphenol	9.4	U	3.8	75
2,4-Dinitrophenol	19	U	9.4	75
2,4-Dinitrotoluene	3.8	U	1.6	19
2,6-Dinitrotoluene	3.8	U	1.8	19
Fluoranthene	0.94	U	0.19	19
Fluorene	0.94	U	0.29	9.4
1,2-Diphenylhydrazine	0.94	U	0.22	9.4
Hexachlorobenzene	0.94	U	0.62	9.4
Hexachlorobutadiene	9.4	U	3.1	28
Hexachloroethane	0.94	U	2.0	9.4
N-Nitrosodiphenylamine	0.94	U	0.42	9.4
N-Nitrosodi-n-propylamine	0.94	U	0.33	19
1,4-Dichlorobenzene	0.94	U	0.30	9.4
2-Chloronaphthalene	0.94	U Q	0.25	9.4
2-Chlorophenol	3.8	U	1.9	9.4
4-Chlorophenyl phenyl ether	3.8	U	1.6	9.4
Chrysene	0.94	U	0.51	9.4
Dibenz(a,h)anthracene	0.94	U	0.48	9.4
Dibenzofuran	0.94	U Q	0.27	9.4
Benzo[g,h,i]perylene	0.94	U	0.47	9.4
Benzo[a]pyrene	0.94	U	0.29	9.4
Di-n-butyl phthalate	3.8	U	1.1	19
1,2-Dichlorobenzene	0.94	U	0.22	9.4
1,3-Dichlorobenzene	0.94	U	0.28	9.4
3,3'-Dichlorobenzidine	9.4	U	1.9	47
2,4-Dichlorophenol	1.9	U	0.60	9.4
Diethyl phthalate	0.94	U	0.36	19
Indeno[1,2,3-cd]pyrene	0.94	U	0.61	9.4
Isophorone	0.94	U	0.20	9.4
2-Methylnaphthalene	0.94	U Q	0.27	9.4
2-Methylphenol	3.8	U	0.92	9.4

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27824	Instrument ID:	MSS_D
Preparation:	3520C	Prep Batch: 280-25954	Lab File ID:	D7638.D
Dilution:	1.0		Initial Weight/Volume:	1060 mL
Date Analyzed:	08/19/2010 2034		Final Weight/Volume:	1000 uL
Date Prepared:	08/07/2010 1612		Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Naphthalene	0.94	U	0.27	9.4
2-Nitroaniline	3.8	U	1.6	47
3-Nitroaniline	1.9	U	1.9	47
4-Nitroaniline	3.8	U	1.9	47
Nitrobenzene	1.9	U	0.76	19
2-Nitrophenol	0.94	U	0.37	19
4-Nitrophenol	0.94	U	1.2	47
Pyrene	0.94	U	0.35	9.4
Pentachlorophenol	38	U	19	75
Phenanthrene	0.94	U	0.25	9.4
1,2,4-Trichlorobenzene	0.94	U Q	0.26	9.4
2,4,5-Trichlorophenol	0.94	U	0.42	19
2,4,6-Trichlorophenol	0.94	U	0.27	19
Phenol	0.94	U	1.9	9.4
Carbazole	0.94	U	0.41	9.4
N-Nitrosodimethylamine	0.94	U	0.27	9.4
Bis(2-ethylhexyl) phthalate	0.94	U	0.53	9.4
Di-n-octyl phthalate	0.94	U	0.33	19
3 & 4 Methylphenol	0.94	U	0.24	19
4-Chloro-3-methylphenol	4.7	U	2.3	19
2,2'-oxybis[1-chloropropane]	0.94	U	0.26	9.4
4-Chloroaniline	4.7	U	2.0	24
2,6-Dichlorophenol	3.8	U	1.3	9.4
N-Nitrosopyrrolidine	3.8	U	0.76	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	82		50 - 110
2-Fluorophenol (Surr)	81		20 - 110
Nitrobenzene-d5 (Surr)	80		40 - 110
Terphenyl-d14 (Surr)	104		50 - 135
2,4,6-Tribromophenol (Surr)	99		40 - 125
Phenol-d5 (Surr)	88		10 - 115

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Date Sampled: 08/02/2010 1130

Client Matrix: Solid

% Moisture: 5.4

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7595.D
Dilution:	1.0		Initial Weight/Volume:	30.3 g
Date Analyzed:	08/17/2010 2256		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Acenaphthene		18	U	11	350
Acenaphthylene		35	U	18	350
Anthracene		35	U	18	350
Benzidine		4100	U	1000	4200
Benzo[a]anthracene		35	U	21	350
Benzoic acid		690	U Q	350	1700
Benzo[b]fluoranthene		35	U	27	350
Benzo[k]fluoranthene		69	U	42	350
Benzyl alcohol		35	U	10	350
Bis(2-chloroethoxy)methane		69	U	24	350
Bis(2-chloroethyl)ether		35	U	17	350
4-Bromophenyl phenyl ether		35	U	20	350
Butyl benzyl phthalate		69	U	45	350
2,4-Dimethylphenol		140	U	69	350
Dimethyl phthalate		35	U	24	350
4,6-Dinitro-2-methylphenol		690	U Q	350	1700
2,4-Dinitrophenol		700	U Q	350	1700
2,4-Dinitrotoluene		140	U	69	350
2,6-Dinitrotoluene		69	U	29	350
Fluoranthene		69	U	38	350
Fluorene		35	U	19	350
1,2-Diphenylhydrazine		35	U	23	350
Hexachlorobenzene		69	U	30	350
Hexachlorobutadiene		69	U	10	350
Hexachloroethane		35	U	22	350
N-Nitrosodiphenylamine		35	U	22	350
N-Nitrosodi-n-propylamine		69	U	32	350
1,4-Dichlorobenzene		35	U	14	350
2-Chloronaphthalene		35	U	10	350
2-Chlorophenol		35	U	22	350
4-Chlorophenyl phenyl ether		69	U	22	350
Chrysene		35	U	28	350
Dibenz(a,h)anthracene		35	U	20	350
Dibenzofuran		35	U	21	350
Benzo[g,h,i]perylene		35	U	17	350
Benzo[a]pyrene		35	U	21	350
Di-n-butyl phthalate		35	U	30	350
1,2-Dichlorobenzene		35	U	23	350
1,3-Dichlorobenzene		35	U	13	350
3,3'-Dichlorobenzidine		350	U	94	1700
2,4-Dichlorophenol		69	U	10	350
Diethyl phthalate		35	U	27	690
Indeno[1,2,3-cd]pyrene		35	U	23	350
Isophorone		35	U	18	350
2-Methylnaphthalene		35	U	20	350
2-Methylphenol		35	U	14	350

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Date Sampled: 08/02/2010 1130

Client Matrix: Solid

% Moisture: 5.4

Date Received: 08/06/2010 1000

8270C/DoD Semivolatile Organic Compounds (GC/MS)

Method:	8270C/DoD	Analysis Batch: 280-27640	Instrument ID:	MSS_D
Preparation:	3550C	Prep Batch: 280-26179	Lab File ID:	D7595.D
Dilution:	1.0		Initial Weight/Volume:	30.3 g
Date Analyzed:	08/17/2010 2256		Final Weight/Volume:	1000 uL
Date Prepared:	08/10/2010 1430		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Naphthalene		69	U	32	350
2-Nitroaniline		69	U	52	1700
3-Nitroaniline		69	U	76	1700
4-Nitroaniline		140	U	76	1700
Nitrobenzene		35	U	23	350
2-Nitrophenol		69	U	10	350
4-Nitrophenol		350	U	100	1700
Pyrene		35	U	13	420
Pentachlorophenol		700	U	350	1700
Phenanthrene		35	U	18	350
1,2,4-Trichlorobenzene		35	U	29	350
2,4,5-Trichlorophenol		140	U	10	350
2,4,6-Trichlorophenol		69	U	10	350
Phenol		35	U	19	350
Carbazole		35	U	38	350
N-Nitrosodimethylamine		69	U	39	540
Bis(2-ethylhexyl) phthalate		56	J	48	350
Di-n-octyl phthalate		69	U	15	350
3 & 4 Methylphenol		69	U	35	350
4-Chloro-3-methylphenol		140	U	69	350
2,2'-oxybis[1-chloropropane]		35	U	24	350
4-Chloroaniline		140	U	86	350
2,6-Dichlorophenol		140	U	72	350
N-Nitrosopyrrolidine		140	U	67	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	70		45 - 105
2-Fluorophenol (Surr)	73		35 - 105
Nitrobenzene-d5 (Surr)	65		35 - 100
Terphenyl-d14 (Surr)	87		30 - 125
2,4,6-Tribromophenol (Surr)	84		35 - 125
Phenol-d5 (Surr)	76		40 - 100

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Date Sampled: 08/02/2010 0945

Client Matrix: Solid

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27102	Instrument ID:	CHHPLC_X3
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.02 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/16/2010 1751		Injection Volume:	100 uL
Date Prepared:	08/13/2010 0855		Result Type:	PRIMARY
Date Leached:	08/10/2010 1041			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene		0.040	U	0.033	0.10
4-Amino-2,6-dinitrotoluene		0.040	U	0.030	0.10
2,4-Dinitrotoluene		0.040	U	0.015	0.10
2,6-Dinitrotoluene		0.040	U	0.019	0.10
2-Nitrotoluene		0.080	U	0.047	0.20
3-Nitrotoluene		0.080	U	0.064	0.20
Nitrobenzene		0.080	U	0.085	0.30
4-Nitrotoluene		0.10	U	0.036	0.20
1,3,5-Trinitrobenzene		0.040	U	0.014	0.10
1,3-Dinitrobenzene		0.040	U	0.017	0.10
HMX		0.040	U	0.023	0.10
RDX		0.080	U	0.043	0.20
Tetryl		0.080	U	0.044	0.20
2,4,6-Trinitrotoluene		0.040	U	0.031	0.10
3,5-Dinitroaniline		0.040	U	0.0090	0.10
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dinitrobenzene		104		83 - 122	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27102	Instrument ID:	CHHPLC_X3
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.01 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/16/2010 1854		Injection Volume:	100 uL
Date Prepared:	08/13/2010 0855		Result Type:	PRIMARY
Date Leached:	08/10/2010 1041			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene		0.040	U	0.033	0.10
4-Amino-2,6-dinitrotoluene		0.040	U	0.030	0.10
2,4-Dinitrotoluene		0.040	U	0.015	0.10
2,6-Dinitrotoluene		0.040	U	0.019	0.10
2-Nitrotoluene		0.080	U	0.047	0.20
3-Nitrotoluene		0.080	U	0.064	0.20
Nitrobenzene		0.080	U	0.085	0.30
4-Nitrotoluene		0.10	U	0.036	0.20
1,3,5-Trinitrobenzene		0.040	U	0.014	0.10
HMX		0.040	U	0.023	0.10
RDX		0.080	U	0.043	0.20
2,4,6-Trinitrotoluene		0.040	U	0.031	0.10
3,5-Dinitroaniline		0.040	U	0.0090	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	105		83 - 122

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Client Matrix: Solid

Date Sampled: 08/02/2010 1010

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27266	Instrument ID:	CHHPLC_Q
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.01 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/17/2010 1716		Injection Volume:	1 uL
Date Prepared:	08/13/2010 0855		Result Type:	PRIMARY
Date Leached:	08/10/2010 1041			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3-Dinitrobenzene		0.040	U	0.017	0.10
Tetryl		0.080	U	0.044	0.20

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch:	280-27266	Instrument ID:	CHHPLC_Q
Preparation:	8330B	Prep Batch:	280-26688	Initial Weight/Volume:	10.01 g
Dilution:	1.0	Leachate Batch:	280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/17/2010 1716			Injection Volume:	1 uL
Date Prepared:	08/13/2010 0855			Result Type:	SECONDARY
Date Leached:	08/10/2010 1041				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	103		83 - 122

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Date Sampled: 08/02/2010 1030

Client Matrix: Solid

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27102	Instrument ID:	CHHPLC_X3
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.04 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/16/2010 1957		Injection Volume:	100 uL
Date Prepared:	08/13/2010 0855		Result Type:	PRIMARY
Date Leached:	08/10/2010 1041			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene		0.040	U	0.033	0.10
4-Amino-2,6-dinitrotoluene		0.040	U	0.030	0.10
2,4-Dinitrotoluene		0.040	U	0.015	0.10
2,6-Dinitrotoluene		0.040	U	0.019	0.10
2-Nitrotoluene		0.080	U	0.047	0.20
3-Nitrotoluene		0.080	U	0.064	0.20
Nitrobenzene		0.080	U	0.085	0.30
4-Nitrotoluene		0.10	U	0.036	0.20
1,3,5-Trinitrobenzene		0.040	U	0.014	0.10
1,3-Dinitrobenzene		0.040	U	0.017	0.10
HMX		0.040	U	0.023	0.10
RDX		0.080	U	0.043	0.20
Tetryl		0.080	U	0.044	0.20
2,4,6-Trinitrotoluene		0.040	U	0.031	0.10
3,5-Dinitroaniline		0.040	U	0.0090	0.10
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dinitrobenzene		107		83 - 122	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Date Sampled: 08/02/2010 1045

Client Matrix: Solid

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27102	Instrument ID:	CHHPLC_X3
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.09 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/16/2010 2018		Injection Volume:	100 uL
Date Prepared:	08/13/2010 0855		Result Type:	PRIMARY
Date Leached:	08/10/2010 1041			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene		0.040	U	0.033	0.099
4-Amino-2,6-dinitrotoluene		0.040	U	0.030	0.099
2,4-Dinitrotoluene		0.040	U	0.015	0.099
2,6-Dinitrotoluene		0.040	U	0.019	0.099
2-Nitrotoluene		0.079	U	0.047	0.20
3-Nitrotoluene		0.079	U	0.063	0.20
Nitrobenzene		0.079	U	0.084	0.30
4-Nitrotoluene		0.099	U	0.036	0.20
1,3,5-Trinitrobenzene		0.040	U	0.014	0.099
1,3-Dinitrobenzene		0.040	U	0.016	0.099
HMX		0.040	U	0.022	0.099
RDX		0.079	U	0.043	0.20
Tetryl		0.079	U	0.044	0.20
2,4,6-Trinitrotoluene		0.040	U	0.030	0.099
3,5-Dinitroaniline		0.040	U	0.0089	0.099
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dinitrobenzene		94		83 - 122	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Client Matrix: Water

Date Sampled: 08/02/2010 0800

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-26610	Instrument ID:	CHHPLC_X3
Preparation:	3535	Prep Batch: 280-26077	Initial Weight/Volume:	494 mL
Dilution:	1.0		Final Weight/Volume:	5000 uL
Date Analyzed:	08/12/2010 1800		Injection Volume:	100 uL
Date Prepared:	08/09/2010 1435		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.15	U	0.051	0.20
4-Amino-2,6-dinitrotoluene	0.15	U	0.058	0.20
2,4-Dinitrotoluene	0.15	U Q	0.085	0.40
2,6-Dinitrotoluene	0.15	U	0.065	0.20
o-Nitrotoluene	0.15	U	0.087	0.40
m-Nitrotoluene	0.15	U	0.084	0.40
Nitrobenzene	0.15	U	0.092	0.40
p-Nitrotoluene	0.40	U	0.20	1.0
1,3,5-Trinitrobenzene	0.40	U	0.20	1.0
1,3-Dinitrobenzene	0.15	U	0.090	0.40
HMX	0.15	U	0.089	0.40
RDX	0.15	U	0.053	0.20
Tetryl	0.15	U	0.080	0.24
2,4,6-Trinitrotoluene	0.15	U	0.073	0.40
3,5-Dinitroaniline	0.15	U	0.13	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	114		75 - 118

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Date Sampled: 08/02/2010 0830

Client Matrix: Water

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-26610	Instrument ID:	CHHPLC_X3
Preparation:	3535	Prep Batch: 280-26077	Initial Weight/Volume:	498 mL
Dilution:	1.0		Final Weight/Volume:	5000 uL
Date Analyzed:	08/12/2010 1821		Injection Volume:	100 uL
Date Prepared:	08/09/2010 1435		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.15	U	0.051	0.20
4-Amino-2,6-dinitrotoluene	0.15	U	0.058	0.20
2,4-Dinitrotoluene	0.15	U Q	0.084	0.40
2,6-Dinitrotoluene	0.15	U	0.065	0.20
o-Nitrotoluene	0.15	U	0.086	0.40
m-Nitrotoluene	0.15	U	0.084	0.40
Nitrobenzene	0.15	U	0.091	0.40
p-Nitrotoluene	0.40	U	0.20	1.0
1,3,5-Trinitrobenzene	0.40	U	0.20	1.0
1,3-Dinitrobenzene	0.15	U	0.089	0.40
HMX	0.15	U	0.088	0.40
2,4,6-Trinitrotoluene	0.15	U	0.073	0.40
3,5-Dinitroaniline	0.14	U	0.13	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	108		75 - 118

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-26812	Instrument ID:	CHHPLC_Q
Preparation:	3535	Prep Batch: 280-26077	Initial Weight/Volume:	498 mL
Dilution:	1.0		Final Weight/Volume:	5000 uL
Date Analyzed:	08/13/2010 1917		Injection Volume:	1 uL
Date Prepared:	08/09/2010 1435		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
RDX	0.15	U	0.053	0.20
Tetryl	0.15	U	0.080	0.24

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-26812	Instrument ID:	CHHPLC_Q
Preparation:	3535	Prep Batch: 280-26077	Initial Weight/Volume:	498 mL
Dilution:	1.0		Final Weight/Volume:	5000 uL
Date Analyzed:	08/13/2010 1917		Injection Volume:	1 uL
Date Prepared:	08/09/2010 1435		Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	114		75 - 118

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-26610	Instrument ID:	CHHPLC_X3
Preparation:	3535	Prep Batch: 280-26077	Initial Weight/Volume:	497 mL
Dilution:	1.0		Final Weight/Volume:	5000 uL
Date Analyzed:	08/12/2010 1842		Injection Volume:	100 uL
Date Prepared:	08/09/2010 1435		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
4-Amino-2,6-dinitrotoluene	0.15	U	0.058	0.20
2,6-Dinitrotoluene	0.15	U	0.065	0.20
o-Nitrotoluene	0.15	U	0.086	0.40
Nitrobenzene	0.15	U	0.092	0.40
p-Nitrotoluene	0.40	U	0.20	1.0
1,3,5-Trinitrobenzene	0.40	U	0.20	1.0
1,3-Dinitrobenzene	0.15	U	0.089	0.40
HMX	0.15	U	0.088	0.40
RDX	0.15	U	0.053	0.20
Tetryl	0.15	U	0.080	0.24
2,4,6-Trinitrotoluene	0.15	U	0.073	0.40
3,5-Dinitroaniline	0.14	U	0.13	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	79		75 - 118

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-26812	Instrument ID:	CHHPLC_Q
Preparation:	3535	Prep Batch: 280-26077	Initial Weight/Volume:	497 mL
Dilution:	1.0		Final Weight/Volume:	5000 uL
Date Analyzed:	08/13/2010 1949		Injection Volume:	1 uL
Date Prepared:	08/09/2010 1435		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.15	U Q	0.051	0.20
2,4-Dinitrotoluene	0.15	U Q	0.084	0.40
m-Nitrotoluene	0.15	U Q	0.084	0.40

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-26812	Instrument ID:	CHHPLC_Q
Preparation:	3535	Prep Batch: 280-26077	Initial Weight/Volume:	497 mL
Dilution:	1.0		Final Weight/Volume:	5000 uL
Date Analyzed:	08/13/2010 1949		Injection Volume:	1 uL
Date Prepared:	08/09/2010 1435		Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	127	Q	75 - 118

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Client Matrix: Solid

Date Sampled: 08/02/2010 1130

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27102	Instrument ID:	CHHPLC_X3
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.06 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/16/2010 2039		Injection Volume:	100 uL
Date Prepared:	08/13/2010 0855		Result Type:	PRIMARY
Date Leached:	08/10/2010 1041			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
2-Amino-4,6-dinitrotoluene		0.040	U	0.033	0.099
4-Amino-2,6-dinitrotoluene		0.040	U	0.030	0.099
2,4-Dinitrotoluene		0.040	U	0.015	0.099
2,6-Dinitrotoluene		0.040	U	0.019	0.099
2-Nitrotoluene		0.080	U	0.047	0.20
3-Nitrotoluene		0.080	U	0.064	0.20
Nitrobenzene		0.080	U	0.084	0.30
4-Nitrotoluene		0.099	U	0.036	0.20
1,3,5-Trinitrobenzene		0.040	U	0.014	0.099
1,3-Dinitrobenzene		0.040	U	0.017	0.099
HMX		0.040	U	0.023	0.099
RDX		0.080	U	0.043	0.20
Tetryl		0.080	U	0.044	0.20
2,4,6-Trinitrotoluene		0.040	U	0.031	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	104		83 - 122

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Client Matrix: Solid

Date Sampled: 08/02/2010 1130

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27266	Instrument ID:	CHHPLC_Q
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.06 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/17/2010 1748		Injection Volume:	1 uL
Date Prepared:	08/13/2010 0855		Result Type:	PRIMARY
Date Leached:	08/10/2010 1041			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
3,5-Dinitroaniline		0.040	U	0.0089	0.099

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Client Matrix: Solid

Date Sampled: 08/02/2010 1130

Date Received: 08/06/2010 1000

8330B Nitroaromatics and Nitramines (HPLC)

Method:	8330B	Analysis Batch: 280-27266	Instrument ID:	CHHPLC_Q
Preparation:	8330B	Prep Batch: 280-26688	Initial Weight/Volume:	10.06 g
Dilution:	1.0	Leachate Batch: 280-26212	Final Weight/Volume:	40000 uL
Date Analyzed:	08/17/2010 1748		Injection Volume:	1 uL
Date Prepared:	08/13/2010 0855		Result Type:	SECONDARY
Date Leached:	08/10/2010 1041			

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dinitrobenzene	111		83 - 122

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Date Sampled: 08/02/2010 0945

Client Matrix: Solid

% Moisture: 13.5

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Analysis Batch: 280-27344

Instrument ID: LC_LCMS1

Preparation: 6860

Prep Batch: 280-26924

Lab File ID: IC10H1726.d

Dilution: 1.0

Initial Weight/Volume: 10.12 g

Date Analyzed: 08/17/2010 2340

Final Weight/Volume: 100 mL

Date Prepared: 08/13/2010 1935

Injection Volume: 250 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Perchlorate		0.29	U	0.24	0.57

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

% Moisture: 6.7

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Analysis Batch: 280-27344

Instrument ID: LC_LCMS1

Preparation: 6860

Prep Batch: 280-26924

Lab File ID: IC10H1727.d

Dilution: 1.0

Initial Weight/Volume: 10.01 g

Date Analyzed: 08/18/2010 0012

Final Weight/Volume: 100 mL

Date Prepared: 08/13/2010 1935

Injection Volume: 250 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Perchlorate		0.27	U	0.22	0.54

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Date Sampled: 08/02/2010 1030

Client Matrix: Solid

% Moisture: 12.1

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Analysis Batch: 280-27344

Instrument ID: LC_LCMS1

Preparation: 6860

Prep Batch: 280-26924

Lab File ID: IC10H1728.d

Dilution: 1.0

Initial Weight/Volume: 10.47 g

Date Analyzed: 08/18/2010 0043

Final Weight/Volume: 100 mL

Date Prepared: 08/13/2010 1935

Injection Volume: 250 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Perchlorate		0.27	U	0.23	0.54

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Date Sampled: 08/02/2010 1045

Client Matrix: Solid

% Moisture: 7.9

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Analysis Batch: 280-27344

Instrument ID: LC_LCMS1

Preparation: 6860

Prep Batch: 280-26924

Lab File ID: IC10H1729.d

Dilution: 1.0

Initial Weight/Volume: 10.52 g

Date Analyzed: 08/18/2010 0115

Final Weight/Volume: 100 mL

Date Prepared: 08/13/2010 1935

Injection Volume: 250 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Perchlorate		0.26	U	0.22	0.52

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Client Matrix: Water

Date Sampled: 08/02/2010 0800

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Preparation: N/A

Dilution: 1.0

Date Analyzed: 08/22/2010 0827

Date Prepared:

Analysis Batch: 280-28013

Instrument ID: LC_LCMS1

Lab File ID: IC10H2144.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 1.0 mL

Injection Volume: 250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Analysis Batch: 280-28013

Instrument ID: LC_LCMS1

Preparation: N/A

Lab File ID: IC10H2145.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 08/22/2010 0858

Final Weight/Volume: 1.0 mL

Date Prepared:

Injection Volume: 250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Preparation: N/A

Dilution: 1.0

Date Analyzed: 08/22/2010 0929

Date Prepared:

Analysis Batch: 280-28013

Instrument ID: LC_LCMS1

Lab File ID: IC10H2146.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 1.0 mL

Injection Volume: 250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Date Sampled: 08/02/2010 1130

Client Matrix: Solid

% Moisture: 5.4

Date Received: 08/06/2010 1000

6860 Perchlorate by IC/MS or IC/MS/MS

Method: 6860

Analysis Batch: 280-27344

Instrument ID: LC_LCMS1

Preparation: 6860

Prep Batch: 280-26924

Lab File ID: IC10H1730.d

Dilution: 1.0

Initial Weight/Volume: 10.61 g

Date Analyzed: 08/18/2010 0146

Final Weight/Volume: 100 mL

Date Prepared: 08/13/2010 1935

Injection Volume: 250 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Perchlorate		0.25	U J	0.21	0.50

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Date Sampled: 08/02/2010 0945

Client Matrix: Solid

% Moisture: 13.5

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27511	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-26825	Lab File ID:	082SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.13 g
Date Analyzed:	08/18/2010 0330		Final Weight/Volume:	100 mL
Date Prepared:	08/17/2010 0700			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Arsenic		6500		52	610
Barium		47000		72	260
Cadmium		2600	Q	9.6	100
Chromium		11000	Q	78	610
Lead		18000		19	410
Selenium		560		140	510
Silver		100	Q	21	100

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471B	Analysis Batch: 280-27196	Instrument ID:	MT_033
Preparation:	7471B	Prep Batch: 280-26890	Lab File ID:	100816AB.txt
Dilution:	1.0		Initial Weight/Volume:	0.64 g
Date Analyzed:	08/16/2010 2002		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1630			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Mercury		64		6.0	18

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Date Sampled: 08/02/2010 1010

Client Matrix: Solid

% Moisture: 6.7

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27511	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-26825	Lab File ID:	083SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.14 g
Date Analyzed:	08/18/2010 0333		Final Weight/Volume:	100 mL
Date Prepared:	08/17/2010 0700			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Arsenic		5500		48	560
Barium		43000		66	230
Cadmium		6000	Q	8.8	94
Chromium		16000	Q	71	560
Lead		34000		17	380
Selenium		530		130	470
Silver		580	Q	19	94

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471B	Analysis Batch: 280-27196	Instrument ID:	MT_033
Preparation:	7471B	Prep Batch: 280-26890	Lab File ID:	100816AB.txt
Dilution:	1.0		Initial Weight/Volume:	0.64 g
Date Analyzed:	08/16/2010 2005		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1630			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Mercury		47		5.6	17

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Date Sampled: 08/02/2010 1030

Client Matrix: Solid

% Moisture: 12.1

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27511	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-26825	Lab File ID:	084SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.01 g
Date Analyzed:	08/18/2010 0336		Final Weight/Volume:	100 mL
Date Prepared:	08/17/2010 0700			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Arsenic		5500		57	680
Barium		51000		79	280
Cadmium		990	Q	11	110
Chromium		9700	Q	86	680
Lead		20000		21	450
Selenium		680		150	560
Silver		280	Q	23	110

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471B	Analysis Batch: 280-27196	Instrument ID:	MT_033
Preparation:	7471B	Prep Batch: 280-26890	Lab File ID:	100816AB.txt
Dilution:	1.0		Initial Weight/Volume:	0.62 g
Date Analyzed:	08/16/2010 2007		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1630			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Mercury		620	J	6.1	19

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Client Matrix: Solid

% Moisture: 7.9

Date Sampled: 08/02/2010 1045

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27511	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-26825	Lab File ID:	085SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.04 g
Date Analyzed:	08/18/2010 0338		Final Weight/Volume:	100 mL
Date Prepared:	08/17/2010 0700			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Arsenic		7900		53	630
Barium		62000		74	260
Cadmium		4400	Q	9.8	100
Chromium		11000	Q	79	630
Lead		21000		19	420
Selenium		750		140	520
Silver		420	Q	21	100

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471B	Analysis Batch: 280-27196	Instrument ID:	MT_033
Preparation:	7471B	Prep Batch: 280-26890	Lab File ID:	100816AB.txt
Dilution:	1.0		Initial Weight/Volume:	0.60 g
Date Analyzed:	08/16/2010 2026		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1630			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Mercury		58		6.0	18

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Client Matrix: Water

Date Sampled: 08/02/2010 0800

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27507	Instrument ID:	MT_024
Preparation:	3020A	Prep Batch: 280-26838	Lab File ID:	163SMPL.D
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	08/18/2010 0714		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1200			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Arsenic	0.36	J	0.21	5.0
Barium	27		0.29	3.0
Cadmium	0.56	J Q	0.040	1.0
Chromium	1.5	U Q	0.50	10
Lead	0.50	J	0.18	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.029	J	0.015	5.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 280-27041	Instrument ID:	MT_033
Preparation:	7470A	Prep Batch: 280-26617	Lab File ID:	100813AA.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	08/13/2010 1359		Final Weight/Volume:	10 mL
Date Prepared:	08/12/2010 2000			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Client Matrix: Water

Date Sampled: 08/02/2010 0830

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27507	Instrument ID:	MT_024
Preparation:	3020A	Prep Batch: 280-26838	Lab File ID:	164SMPL.D
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	08/18/2010 0717		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1200			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Arsenic	0.57	J	0.21	5.0
Barium	24		0.29	3.0
Cadmium	0.12	U Q	0.040	1.0
Chromium	1.5	U Q	0.50	10
Lead	0.50	U	0.18	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 280-27041	Instrument ID:	MT_033
Preparation:	7470A	Prep Batch: 280-26617	Lab File ID:	100813AA.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	08/13/2010 1401		Final Weight/Volume:	10 mL
Date Prepared:	08/12/2010 2000			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.035	J	0.027	0.20

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Client Matrix: Water

Date Sampled: 08/02/2010 1145

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27507	Instrument ID:	MT_024
Preparation:	3020A	Prep Batch: 280-26838	Lab File ID:	165SMPL.D
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	08/18/2010 0720		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1200			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Arsenic	0.60	U	0.21	5.0
Barium	1.5	J	0.29	3.0
Cadmium	0.16	J Q	0.040	1.0
Chromium	1.5	U Q	0.50	10
Lead	0.30	J	0.18	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.018	J	0.015	5.0

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 280-27041	Instrument ID:	MT_033
Preparation:	7470A	Prep Batch: 280-26617	Lab File ID:	100813AA.txt
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	08/13/2010 1411		Final Weight/Volume:	10 mL
Date Prepared:	08/12/2010 2000			

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Date Sampled: 08/02/2010 1130

Client Matrix: Solid

% Moisture: 5.4

Date Received: 08/06/2010 1000

6020A Metals (ICP/MS)

Method:	6020A	Analysis Batch: 280-27511	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-26825	Lab File ID:	086SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.02 g
Date Analyzed:	08/18/2010 0341		Final Weight/Volume:	100 mL
Date Prepared:	08/17/2010 0700			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Arsenic		6100		52	620
Barium		48000		73	260
Cadmium		2800	Q	9.7	100
Chromium		15000	Q	79	620
Lead		26000		19	410
Selenium		300	J	140	520
Silver		83	J Q	21	100

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471B	Analysis Batch: 280-27196	Instrument ID:	MT_033
Preparation:	7471B	Prep Batch: 280-26890	Lab File ID:	100816AB.txt
Dilution:	1.0		Initial Weight/Volume:	0.62 g
Date Analyzed:	08/16/2010 2029		Final Weight/Volume:	50 mL
Date Prepared:	08/16/2010 1630			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Mercury		62		5.7	17

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

General Chemistry

Client Sample ID: SS1-

Lab Sample ID: 280-6075-1

Client Matrix: Solid

Date Sampled: 08/02/2010 0945

Date Received: 08/06/2010 1000

Analyte	Result	Qual	Units	LOQ	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-25935		Date Analyzed: 08/07/2010 1120				DryWt Corrected: N	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

General Chemistry

Client Sample ID: SS2-

Lab Sample ID: 280-6075-2

Client Matrix: Solid

Date Sampled: 08/02/2010 1010

Date Received: 08/06/2010 1000

Analyte	Result	Qual	Units	LOQ	LOQ	Dil	Method
Percent Moisture	6.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-25935		Date Analyzed: 08/07/2010 1120				DryWt Corrected: N	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

General Chemistry

Client Sample ID: SS3-

Lab Sample ID: 280-6075-3

Client Matrix: Solid

Date Sampled: 08/02/2010 1030

Date Received: 08/06/2010 1000

Analyte	Result	Qual	Units	LOQ	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-25935		Date Analyzed: 08/07/2010 1120				DryWt Corrected: N	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

General Chemistry

Client Sample ID: SS4-

Lab Sample ID: 280-6075-4

Client Matrix: Solid

Date Sampled: 08/02/2010 1045

Date Received: 08/06/2010 1000

Analyte	Result	Qual	Units	LOQ	LOQ	Dil	Method
Percent Moisture	7.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-25935		Date Analyzed: 08/07/2010 1120				DryWt Corrected: N	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

General Chemistry

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Client Matrix: Solid

Date Sampled: 08/02/2010 1130

Date Received: 08/06/2010 1000

Analyte	Result	Qual	Units	LOQ	LOQ	Dil	Method
Percent Moisture	5.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-25935		Date Analyzed: 08/07/2010 1120				DryWt Corrected: N	

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate Recovery Report**8260B/DoD Volatile Organic Compounds (GC/MS)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-6075-1	SS1-	91	79	106	114
280-6075-2	SS2-	92	79	101	107
280-6075-3	SS3-	91	78	100	106
280-6075-4	SS4-	85	78	107	109
280-6075-8	SS1-DUP-	91	78	99	102
MB 280-26668/3-A		91	80	104	96
LCS 280-26668/1-A		94	81	108	95
LCSD 280-26668/2-A		89	79	97	95

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	71-126
DCA = 1,2-Dichloroethane-d4 (Surr)	61-129
TOL = Toluene-d8 (Surr)	85-115
BFB = 4-Bromofluorobenzene (Surr)	85-120

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate Recovery Report

8260B/DoD Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-6075-5	NE SUMP-	94	90	99	97
280-6075-6	SW SUMP-	104	98	110	107
280-6075-7	RINSATE	109	105	112	108
280-6075-9	TRIP BLANK	110	108	113	109
MB 280-26526/4		108	104	110	109
LCS 280-26526/5		103	104	116	104
280-6075-5 MS	NE SUMP- MS	100	99	116	99
280-6075-5 MSD	NE SUMP- MSD	109	109	120	106

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate Recovery Report**8270C/DoD Semivolatile Organic Compounds (GC/MS)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
280-6075-1	SS1-	75	78	66	74	89	95
280-6075-2	SS2-	70	73	64	71	88	89
280-6075-3	SS3-	75	76	65	69	78	84
280-6075-4	SS4-	78	82	69	78	95	97
280-6075-8	SS1-DUP-	73	76	65	70	84	87
MB 280-26179/1-A		75	74	69	71	78	89
LCS 280-26179/3-A		71	74	63	71	89	87
LCSD 280-26179/4-A		73	77	65	72	83	83

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	35-105
PHL = Phenol-d5 (Surr)	40-100
NBZ = Nitrobenzene-d5 (Surr)	35-100
FBP = 2-Fluorobiphenyl	45-105
TBP = 2,4,6-Tribromophenol (Surr)	35-125
TPH = Terphenyl-d14 (Surr)	30-125

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate Recovery Report**8270C/DoD Semivolatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
280-6075-5	NE SUMP-	85	94	83	83	106	107
280-6075-6 RE	SW SUMP- RE	80	83	83	68	86	83
280-6075-6	SW SUMP-	85	92	82	80	103	109
280-6075-7	RINSATE	81	88	80	82	99	104
MB 280-25954/1-A		76	90	57	25Q	98	107
MB 280-28094/1-A		85	89	85	64	96	92
LCS 280-25954/2-A		76	92	57	45Q	105	98
LCS 280-28094/2-A		85	88	83	62	98	94
LCSD		86	98	72	55	109	95
280-25954/17-A							
LCSD 280-28094/3-A		85	91	88	71	100	96

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	20-110
PHL = Phenol-d5 (Surr)	10-115
NBZ = Nitrobenzene-d5 (Surr)	40-110
FBP = 2-Fluorobiphenyl	50-110
TBP = 2,4,6-Tribromophenol (Surr)	40-125
TPH = Terphenyl-d14 (Surr)	50-135

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate Recovery Report

8330B Nitroaromatics and Nitramines (HPLC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	12DNB1 %Rec
280-6075-1	SS1-	104
280-6075-2	SS2-	103
280-6075-2	SS2-	105
280-6075-3	SS3-	107
280-6075-4	SS4-	94
280-6075-8	SS1-DUP-	111
280-6075-8	SS1-DUP-	104
MB 280-26688/1-A		108
MB 280-26688/1-A		104
LCS 280-26688/2-A		104
LCS 280-26688/3-A		105
280-6075-1 MS	SS1- MS	102
280-6075-2 MS	SS2- MS	103
280-6075-1 MSD	SS1- MSD	93
280-6075-2 MSD	SS2- MSD	106

Surrogate	Acceptance Limits
12DNB = 1,2-Dinitrobenzene	83-122

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate Recovery Report

8330B Nitroaromatics and Nitramines (HPLC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DNB1 %Rec
280-6075-5	NE SUMP-	106
280-6075-5	NE SUMP-	114
280-6075-6	SW SUMP-	114
280-6075-6	SW SUMP-	108
280-6075-7	RINSATE	127Q
280-6075-7	RINSATE	79
MB 280-26077/5-A		115
MB 280-26077/5-A		115
LCS 280-26077/6-A		94
LCS 280-26077/8-A		107
LCSD 280-26077/7-A		106
LCSD 280-26077/9-A		119Q

Surrogate	Acceptance Limits
12DNB = 1,2-Dinitrobenzene	75-118

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26526

Method: 8260B/DoD

Preparation: 5030B

Lab Sample ID: MB 280-26526/4

Analysis Batch: 280-26526

Instrument ID: MSV_H

Client Matrix: Water

Prep Batch: N/A

Lab File ID: H6938.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 20 mL

Date Analyzed: 08/11/2010 1027

Final Weight/Volume: 20 mL

Date Prepared: 08/11/2010 1027

Analyte	Result	Qual	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.20	U	0.16	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
4-Isopropyltoluene	0.40	U	0.17	1.0
Benzene	0.20	U	0.16	1.0
Acetone	6.4	U	1.9	10
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Carbon disulfide	0.80	U	0.45	2.0
2-Chlorotoluene	0.40	U	0.17	1.0
4-Chlorotoluene	0.40	U	0.17	1.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroform	0.20	U	0.16	1.0
Chloroethane	1.6	U	0.41	2.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Dibromomethane	0.40	U	0.17	1.0
Dichlorobromomethane	0.20	U	0.17	1.0

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26526

Lab Sample ID: MB 280-26526/4
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/11/2010 1027
 Date Prepared: 08/11/2010 1027

Analysis Batch: 280-26526
 Prep Batch: N/A
 Units: ug/L

Method: 8260B/DoD
 Preparation: 5030B

Instrument ID: MSV_H
 Lab File ID: H6938.D
 Initial Weight/Volume: 20 mL
 Final Weight/Volume: 20 mL

Analyte	Result	Qual	DL	LOQ
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Methylene Chloride	0.397	J	0.32	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
Styrene	0.40	U	0.17	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5
Hexane	2.0	U	0.42	2.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	110	85 - 120
1,2-Dichloroethane-d4 (Surr)	104	70 - 120
4-Bromofluorobenzene (Surr)	109	75 - 120
Dibromofluoromethane (Surr)	108	85 - 115

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample - Batch: 280-26526

Method: 8260B/DoD

Preparation: 5030B

Lab Sample ID: LCS 280-26526/5

Analysis Batch: 280-26526

Instrument ID: MSV_H

Client Matrix: Water

Prep Batch: N/A

Lab File ID: H6939.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 20 mL

Date Analyzed: 08/11/2010 1048

Final Weight/Volume: 20 mL

Date Prepared: 08/11/2010 1048

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	5.00	5.30	106	80 - 130	
1,1,1-Trichloroethane	5.00	4.79	96	65 - 130	
1,2,3-Trichloropropane	5.00	4.95	99	75 - 125	
1,2,3-Trichlorobenzene	5.00	5.21	104	55 - 140	
1,1-Dichloroethane	5.00	4.93	99	70 - 135	
1,2,4-Trichlorobenzene	5.00	5.39	108	65 - 135	
1,2-Dibromo-3-Chloropropane	5.00	4.95	99	50 - 130	J
1,1-Dichloropropene	5.00	5.20	104	75 - 130	
1,1-Dichloroethene	5.00	5.14	103	70 - 130	
1,1,2-Trichloroethane	5.00	5.02	100	75 - 125	
1,1,2,2-Tetrachloroethane	5.00	5.44	109	65 - 130	
1,2,4-Trimethylbenzene	5.00	5.10	102	75 - 130	
1,2-Dichlorobenzene	5.00	5.00	100	70 - 120	
1,2-Dichloroethane	5.00	5.13	103	70 - 130	
1,3-Dichlorobenzene	5.00	5.06	101	75 - 125	
1,3-Dichloropropane	5.00	5.35	107	75 - 125	
1,3,5-Trimethylbenzene	5.00	5.09	102	75 - 130	
2-Butanone (MEK)	20.0	17.1	86	30 - 150	
1,4-Dichlorobenzene	5.00	5.17	103	75 - 125	
1,2-Dichloropropane	5.00	5.23	105	75 - 125	
2,2-Dichloropropane	5.00	4.91	98	70 - 135	
2-Hexanone	20.0	17.1	85	55 - 130	
4-Methyl-2-pentanone (MIBK)	20.0	19.7	98	60 - 135	
4-Isopropyltoluene	5.00	5.10	102	75 - 130	
Benzene	5.00	5.10	102	80 - 120	
Acetone	20.0	21.7	108	40 - 140	
Bromobenzene	5.00	5.14	103	75 - 125	
Bromoform	5.00	5.10	102	70 - 130	
Bromomethane	5.00	4.74	95	30 - 145	
Carbon tetrachloride	5.00	4.98	100	65 - 140	
Carbon disulfide	5.00	4.17	83	35 - 160	
2-Chlorotoluene	5.00	5.09	102	75 - 125	
4-Chlorotoluene	5.00	5.33	107	75 - 130	
Chlorobenzene	5.00	5.22	104	80 - 120	
Chlorobromomethane	5.00	5.31	106	65 - 130	
Chlorodibromomethane	5.00	5.08	102	60 - 135	
Chloroform	5.00	4.83	97	65 - 135	
Chloroethane	5.00	5.10	102	60 - 135	
Chloromethane	5.00	5.03	101	40 - 125	
cis-1,2-Dichloroethene	5.00	4.99	100	70 - 125	
cis-1,3-Dichloropropene	5.00	5.19	104	70 - 130	
Dibromomethane	5.00	5.28	106	75 - 125	
Dichlorobromomethane	5.00	4.68	94	75 - 120	
Dichlorodifluoromethane	5.00	4.96	99	30 - 155	

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample - Batch: 280-26526

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID: LCS 280-26526/5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/11/2010 1048
 Date Prepared: 08/11/2010 1048

Analysis Batch: 280-26526
 Prep Batch: N/A
 Units: ug/L

Instrument ID: MSV_H
 Lab File ID: H6939.D
 Initial Weight/Volume: 20 mL
 Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ethylbenzene	5.00	5.05	101	75 - 125	
Hexachlorobutadiene	5.00	5.11	102	50 - 140	
Isopropylbenzene	5.00	5.36	107	75 - 125	
Ethylene Dibromide	5.00	5.43	109	80 - 120	
Methylene Chloride	5.00	5.38	108	55 - 140	
Methyl tert-butyl ether	10.0	9.09	91	65 - 125	
m-Xylene & p-Xylene	10.0	10.4	104	75 - 130	
Naphthalene	5.00	5.18	104	55 - 140	
n-Butylbenzene	5.00	5.08	102	70 - 135	
N-Propylbenzene	5.00	5.05	101	70 - 130	
o-Xylene	5.00	5.23	105	80 - 120	
Styrene	5.00	4.35	87	65 - 135	
sec-Butylbenzene	5.00	4.98	100	70 - 125	
tert-Butylbenzene	5.00	5.08	102	70 - 130	
trans-1,2-Dichloroethene	5.00	5.10	102	60 - 140	
trans-1,3-Dichloropropene	5.00	5.17	103	55 - 140	
Tetrachloroethene	5.00	5.16	103	45 - 150	
Toluene	5.00	4.89	98	75 - 120	
Trichloroethene	5.00	5.12	102	70 - 125	
Trichlorofluoromethane	5.00	4.80	96	60 - 145	
Vinyl chloride	5.00	4.97	99	50 - 145	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	116	85 - 120
1,2-Dichloroethane-d4 (Surr)	104	70 - 120
4-Bromofluorobenzene (Surr)	104	75 - 120
Dibromofluoromethane (Surr)	103	85 - 115

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-26526**
**Method: 8260B/DoD
Preparation: 5030B**

MS Lab Sample ID: 280-6075-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1157
Date Prepared: 08/11/2010 1157

Analysis Batch: 280-26526
Prep Batch: N/A

Instrument ID: MSV_H
Lab File ID: H6942.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-6075-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1219
Date Prepared: 08/11/2010 1219

Analysis Batch: 280-26526
Prep Batch: N/A

Instrument ID: MSV_H
Lab File ID: H6943.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1,1,2-Tetrachloroethane	99	107	80 - 130	9	30		
1,1,1-Trichloroethane	92	97	65 - 130	5	30		
1,2,3-Trichloropropane	104	121	75 - 125	15	30		
1,2,3-Trichlorobenzene	97	107	55 - 140	10	30		
1,1-Dichloroethane	94	101	70 - 135	7	30		
1,2,4-Trichlorobenzene	100	111	65 - 135	10	30		
1,2-Dibromo-3-Chloropropane	90	103	50 - 130	13	30	J	
1,1-Dichloropropene	98	105	75 - 130	7	30		
1,1-Dichloroethene	101	109	70 - 130	7	30		
1,1,2-Trichloroethane	98	109	75 - 125	10	30		
1,1,2,2-Tetrachloroethane	97	111	65 - 130	13	30		
1,2,4-Trimethylbenzene	97	105	75 - 130	8	30		
1,2-Dichlorobenzene	97	106	70 - 120	9	30		
1,2-Dichloroethane	94	104	70 - 130	10	30		
1,3-Dichlorobenzene	93	103	75 - 125	10	30		
1,3-Dichloropropane	98	111	75 - 125	12	30		
1,3,5-Trimethylbenzene	97	86	75 - 130	12	30		M
2-Butanone (MEK)	80	98	30 - 150	20	30		
1,4-Dichlorobenzene	98	105	75 - 125	7	30		
1,2-Dichloropropane	99	107	75 - 125	8	30		
2,2-Dichloropropane	94	100	70 - 135	6	30		
2-Hexanone	79	91	55 - 130	14	30		
4-Methyl-2-pentanone (MIBK)	93	107	60 - 135	15	30		
4-Isopropyltoluene	97	104	75 - 130	7	30		
Benzene	97	105	80 - 120	8	30		
Acetone	100	110	40 - 140	10	30		
Bromobenzene	97	107	75 - 125	9	30		
Bromoform	94	107	70 - 130	13	30		
Bromomethane	90	100	30 - 145	11	30		
Carbon tetrachloride	94	101	65 - 140	7	30		
Carbon disulfide	84	84	35 - 160	0	30		
2-Chlorotoluene	101	105	75 - 125	4	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-26526**
**Method: 8260B/DoD
Preparation: 5030B**

MS Lab Sample ID: 280-6075-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1157
Date Prepared: 08/11/2010 1157

Analysis Batch: 280-26526
Prep Batch: N/A

Instrument ID: MSV_H
Lab File ID: H6942.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-6075-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1219
Date Prepared: 08/11/2010 1219

Analysis Batch: 280-26526
Prep Batch: N/A

Instrument ID: MSV_H
Lab File ID: H6943.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4-Chlorotoluene	99	82	75 - 130	19	30		
Chlorobenzene	99	107	80 - 120	8	30		
Chlorobromomethane	98	109	65 - 130	11	30		
Chlorodibromomethane	97	107	60 - 135	10	30		
Chloroform	91	100	65 - 135	10	30		
Chloroethane	101	107	60 - 135	5	30		
Chloromethane	94	97	40 - 125	4	30		
cis-1,2-Dichloroethene	96	101	70 - 125	6	30		
cis-1,3-Dichloropropene	97	108	70 - 130	11	30		
Dibromomethane	94	105	75 - 125	11	30		
Dichlorobromomethane	86	98	75 - 120	12	30		
Dichlorodifluoromethane	96	100	30 - 155	4	30		
Ethylbenzene	99	107	75 - 125	7	30		
Hexachlorobutadiene	96	97	50 - 140	1	30		
Isopropylbenzene	102	108	75 - 125	5	30		
Ethylene Dibromide	102	113	80 - 120	11	30		
Methylene Chloride	90	104	55 - 140	13	30		
Methyl tert-butyl ether	85	98	65 - 125	15	30		
m-Xylene & p-Xylene	100	106	75 - 130	6	30		
Naphthalene	95	110	55 - 140	15	30		
n-Butylbenzene	96	102	70 - 135	6	30		
N-Propylbenzene	98	102	70 - 130	4	30		
o-Xylene	99	106	80 - 120	6	30		
Styrene	89	96	65 - 135	8	30		
sec-Butylbenzene	95	99	70 - 125	4	30		
tert-Butylbenzene	97	102	70 - 130	6	30		
trans-1,2-Dichloroethene	93	99	60 - 140	7	30		
trans-1,3-Dichloropropene	91	104	55 - 140	13	30		
Tetrachloroethene	99	105	45 - 150	6	30		
Toluene	95	102	75 - 120	7	30		
Trichloroethene	97	104	70 - 125	6	30		
Trichlorofluoromethane	95	101	60 - 145	6	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-26526

Method: 8260B/DoD

Preparation: 5030B

MS Lab Sample ID: 280-6075-5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/11/2010 1157
 Date Prepared: 08/11/2010 1157

Analysis Batch: 280-26526
 Prep Batch: N/A

Instrument ID: MSV_H
 Lab File ID: H6942.D
 Initial Weight/Volume: 20 mL
 Final Weight/Volume: 20 mL

MSD Lab Sample ID: 280-6075-5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/11/2010 1219
 Date Prepared: 08/11/2010 1219

Analysis Batch: 280-26526
 Prep Batch: N/A

Instrument ID: MSV_H
 Lab File ID: H6943.D
 Initial Weight/Volume: 20 mL
 Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Vinyl chloride	94	100	50 - 145	7	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Toluene-d8 (Surr)	116		120	85 - 120			
1,2-Dichloroethane-d4 (Surr)	99		109	70 - 120			
4-Bromofluorobenzene (Surr)	99		106	75 - 120			
Dibromofluoromethane (Surr)	100		109	85 - 115			

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-26526**
**Method: 8260B/DoD
Preparation: 5030B**

MS Lab Sample ID: 280-6075-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1157
Date Prepared: 08/11/2010 1157

Units: ug/L

MSD Lab Sample ID: 280-6075-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2010 1219
Date Prepared: 08/11/2010 1219

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1,1,2-Tetrachloroethane	0.20	U	5.00	5.00	4.93	5.37
1,1,1-Trichloroethane	0.20	U	5.00	5.00	4.62	4.86
1,2,3-Trichloropropane	0.80	U	5.00	5.00	5.22	6.04
1,2,3-Trichlorobenzene	0.40	U	5.00	5.00	4.84	5.34
1,1-Dichloroethane	0.20	U	5.00	5.00	4.72	5.05
1,2,4-Trichlorobenzene	0.80	U	5.00	5.00	5.00	5.55
1,2-Dibromo-3-Chloropropane	1.6	U	5.00	5.00	4.52	5.13
1,1-Dichloropropene	0.40	U	5.00	5.00	4.91	5.27
1,1-Dichloroethene	0.20	U	5.00	5.00	5.04	5.43
1,1,2-Trichloroethane	0.40	U	5.00	5.00	4.92	5.44
1,1,2,2-Tetrachloroethane	0.40	U	5.00	5.00	4.87	5.56
1,2,4-Trimethylbenzene	0.20	U	5.00	5.00	4.87	5.27
1,2-Dichlorobenzene	0.20	U	5.00	5.00	4.85	5.30
1,2-Dichloroethane	0.20	U	5.00	5.00	4.68	5.19
1,3-Dichlorobenzene	0.20	U	5.00	5.00	4.63	5.13
1,3-Dichloropropane	0.20	U	5.00	5.00	4.90	5.54
1,3,5-Trimethylbenzene	0.80	U	5.00	5.00	4.84	4.29
2-Butanone (MEK)	3.2	U	20.0	20.0	15.9	19.5
1,4-Dichlorobenzene	0.40	U	5.00	5.00	4.89	5.25
1,2-Dichloropropane	0.20	U	5.00	5.00	4.93	5.33
2,2-Dichloropropane	0.40	U	5.00	5.00	4.72	5.01
2-Hexanone	3.2	U	20.0	20.0	15.7	18.2
4-Methyl-2-pentanone (MIBK)	3.2	U	20.0	20.0	18.5	21.5
4-Isopropyltoluene	0.40	U	5.00	5.00	4.84	5.18
Benzene	0.20	U	5.00	5.00	4.83	5.23
Acetone	6.4	U	20.0	20.0	20.0	22.0
Bromobenzene	0.20	U	5.00	5.00	4.86	5.34
Bromoform	0.40	U	5.00	5.00	4.70	5.35
Bromomethane	0.40	U	5.00	5.00	4.52	5.02
Carbon tetrachloride	0.40	U	5.00	5.00	4.72	5.07
Carbon disulfide	0.80	U	5.00	5.00	4.20	4.19
2-Chlorotoluene	0.40	U	5.00	5.00	5.04	5.27
4-Chlorotoluene	0.40	U	5.00	5.00	4.96	4.11
Chlorobenzene	0.20	U	5.00	5.00	4.95	5.37
Chlorobromomethane	0.20	U	5.00	5.00	4.90	5.47
Chlorodibromomethane	0.40	U	5.00	5.00	4.85	5.34
Chloroform	0.20	U	5.00	5.00	4.57	5.02
Chloroethane	1.6	U	5.00	5.00	5.05	5.33
Chloromethane	1.6	U	5.00	5.00	4.68	4.87
cis-1,2-Dichloroethene	0.20	U	5.00	5.00	4.78	5.05
cis-1,3-Dichloropropene	0.20	U	5.00	5.00	4.84	5.40

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-26526

Method: 8260B/DoD

Preparation: 5030B

MS Lab Sample ID: 280-6075-5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/11/2010 1157
 Date Prepared: 08/11/2010 1157

Units: ug/L

MSD Lab Sample ID: 280-6075-5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/11/2010 1219
 Date Prepared: 08/11/2010 1219

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Dibromomethane	0.40	U	5.00	5.00	4.70	5.23
Dichlorobromomethane	0.20	U	5.00	5.00	4.32	4.89
Dichlorodifluoromethane	0.80	U	5.00	5.00	4.82	5.02
Ethylbenzene	0.20	U	5.00	5.00	4.97	5.33
Hexachlorobutadiene	0.40	U	5.00	5.00	4.81	4.87
Isopropylbenzene	0.40	U	5.00	5.00	5.12	5.40
Ethylene Dibromide	0.20	U	5.00	5.00	5.09	5.65
Methylene Chloride	0.61	J	5.00	5.00	5.10	5.83
Methyl tert-butyl ether	0.40	U	10.0	10.0	8.47	9.84
m-Xylene & p-Xylene	0.80	U	10.0	10.0	9.98	10.6
Naphthalene	0.80	U	5.00	5.00	4.75	5.50
n-Butylbenzene	0.40	U	5.00	5.00	4.81	5.10
N-Propylbenzene	0.20	U	5.00	5.00	4.88	5.10
o-Xylene	0.40	U	5.00	5.00	4.95	5.28
Styrene	0.40	U	5.00	5.00	4.45	4.81
sec-Butylbenzene	0.40	U	5.00	5.00	4.77	4.94
tert-Butylbenzene	0.40	U	5.00	5.00	4.83	5.10
trans-1,2-Dichloroethene	0.20	U	5.00	5.00	4.63	4.96
trans-1,3-Dichloropropene	0.40	U	5.00	5.00	4.53	5.18
Tetrachloroethene	0.40	U	5.00	5.00	4.96	5.27
Toluene	0.40	U	5.00	5.00	4.73	5.08
Trichloroethene	0.20	U	5.00	5.00	4.87	5.19
Trichlorofluoromethane	0.80	U	5.00	5.00	4.77	5.06
Vinyl chloride	0.80	U	5.00	5.00	4.70	5.02

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26668

Method: 8260B/DoD

Preparation: 5035

Lab Sample ID: MB 280-26668/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1319
 Date Prepared: 08/12/2010 0600

Analysis Batch: 280-26762
 Prep Batch: 280-26668
 Units: ug/Kg

Instrument ID: MSV_G
 Lab File ID: G7610.D
 Initial Weight/Volume: 5.05 g
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	DL	LOQ
1,1,1,2-Tetrachloroethane	0.99	U	0.55	5.0
1,1,1-Trichloroethane	0.99	U	0.51	5.0
1,2,3-Trichloropropane	0.99	U	0.80	5.0
1,2,3-Trichlorobenzene	0.99	U	0.74	5.0
1,1-Dichloroethane	0.99	U	0.21	5.0
1,2,4-Trichlorobenzene	0.99	U	0.72	5.0
1,2-Dibromo-3-Chloropropane	0.99	U	0.59	9.9
1,1-Dichloropropene	0.99	U	0.53	5.0
1,1-Dichloroethene	0.99	U	0.58	5.0
1,1,2-Trichloroethane	0.99	U	0.87	5.0
1,1,2,2-Tetrachloroethane	0.99	U	0.60	5.0
1,2,4-Trimethylbenzene	0.99	U	0.57	5.0
1,2-Dichlorobenzene	0.99	U	0.45	5.0
1,2-Dichloroethane	0.99	U	0.69	5.0
1,3-Dichlorobenzene	0.99	U	0.48	5.0
1,3-Dichloropropane	0.99	U	0.50	5.0
1,3,5-Trimethylbenzene	0.99	U	0.56	5.0
2-Butanone (MEK)	9.9	U	1.8	20
1,4-Dichlorobenzene	0.99	U	0.77	5.0
1,2-Dichloropropane	0.99	U	0.54	5.0
2,2-Dichloropropane	0.99	U	0.44	5.0
2-Hexanone	9.9	U	4.8	20
4-Methyl-2-pentanone (MIBK)	9.9	U	4.3	20
4-Isopropyltoluene	0.99	U	0.49	5.0
Benzene	0.99	U	0.47	5.0
Acetone	9.9	U	5.3	20
Bromobenzene	0.99	U	0.49	5.0
Bromoform	0.99	U	0.23	5.0
Bromomethane	0.99	U	0.50	9.9
Carbon tetrachloride	0.99	U	0.62	5.0
Carbon disulfide	0.99	U	0.42	5.0
2-Chlorotoluene	0.99	U	0.50	5.0
4-Chlorotoluene	0.99	U	0.77	5.0
Chlorobenzene	0.99	U	0.53	5.0
Chlorobromomethane	0.99	U	0.30	5.0
Chlorodibromomethane	0.99	U	0.56	5.0
Chloroform	0.99	U	0.29	9.9
Chloroethane	0.99	U	0.88	9.9
Chloromethane	0.99	U	0.76	9.9
cis-1,2-Dichloroethene	0.99	U	0.55	5.0
cis-1,3-Dichloropropene	2.0	U	1.3	5.0
Dibromomethane	0.99	U	0.83	5.0
Dichlorobromomethane	0.99	U	0.22	5.0

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26668

Method: 8260B/DoD

Preparation: 5035

Lab Sample ID: MB 280-26668/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1319
 Date Prepared: 08/12/2010 0600

Analysis Batch: 280-26762
 Prep Batch: 280-26668
 Units: ug/Kg

Instrument ID: MSV_G
 Lab File ID: G7610.D
 Initial Weight/Volume: 5.05 g
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	DL	LOQ
Dichlorodifluoromethane	0.99	U	0.51	9.9
Ethylbenzene	0.99	U	0.66	5.0
Hexachlorobutadiene	0.99	U	0.54	5.0
Isopropylbenzene	0.99	U	0.58	5.0
Ethylene Dibromide	0.99	U	0.51	5.0
Methylene Chloride	0.99	U	0.74	5.0
Methyl tert-butyl ether	0.99	U	0.34	20
m-Xylene & p-Xylene	2.0	U	1.0	3.2
Naphthalene	0.99	U	0.62	5.0
n-Butylbenzene	0.99	U	0.55	5.0
N-Propylbenzene	0.99	U	0.57	5.0
o-Xylene	0.99	U	0.60	5.0
Styrene	0.99	U	0.62	5.0
sec-Butylbenzene	0.99	U	0.76	5.0
tert-Butylbenzene	0.99	U	0.50	5.0
trans-1,2-Dichloroethene	0.99	U	0.39	5.0
trans-1,3-Dichloropropene	0.99	U	0.66	5.0
Tetrachloroethene	0.99	U	0.58	5.0
Toluene	0.99	U	0.68	5.0
Trichloroethene	0.99	U	0.23	5.0
Trichlorofluoromethane	2.0	U	1.0	9.9
Vinyl chloride	2.0	U	1.3	5.0
Hexane	5.0	U	0.67	5.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	104	85 - 115
1,2-Dichloroethane-d4 (Surr)	80	61 - 129
4-Bromofluorobenzene (Surr)	96	85 - 120
Dibromofluoromethane (Surr)	91	71 - 126

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26668

Method: 8260B/DoD

Preparation: 5035

LCS Lab Sample ID: LCS 280-26668/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1232
 Date Prepared: 08/12/2010 0600

Analysis Batch: 280-26762
 Prep Batch: 280-26668
 Units: ug/Kg

Instrument ID: MSV_G
 Lab File ID: G7608.D
 Initial Weight/Volume: 5 g
 Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 280-26668/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1255
 Date Prepared: 08/12/2010 0600

Analysis Batch: 280-26762
 Prep Batch: 280-26668
 Units: ug/Kg

Instrument ID: MSV_G
 Lab File ID: G7609.D
 Initial Weight/Volume: 5 g
 Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1,2-Tetrachloroethane	96	98	75 - 125	1	30		
1,1,1-Trichloroethane	95	96	70 - 135	0	30		
1,2,3-Trichloropropane	90	92	65 - 130	2	30		
1,2,3-Trichlorobenzene	96	95	60 - 135	1	30		
1,1-Dichloroethane	96	95	75 - 125	1	30		
1,2,4-Trichlorobenzene	94	93	65 - 130	1	30		
1,2-Dibromo-3-Chloropropane	95	96	40 - 135	1	30		
1,1-Dichloropropene	98	101	70 - 135	2	30		
1,1-Dichloroethene	99	100	65 - 135	1	30		
1,1,2-Trichloroethane	103	101	60 - 125	2	30		
1,1,2,2-Tetrachloroethane	104	106	55 - 130	2	30		
1,2,4-Trimethylbenzene	93	96	65 - 135	3	30		
1,2-Dichlorobenzene	94	93	75 - 120	1	30		
1,2-Dichloroethane	104	103	70 - 135	0	30		
1,3-Dichlorobenzene	94	95	70 - 125	1	30		
1,3-Dichloropropane	103	98	75 - 125	5	30		
1,3,5-Trimethylbenzene	95	101	65 - 135	6	30		
2-Butanone (MEK)	106	103	30 - 160	3	30		
1,4-Dichlorobenzene	95	93	70 - 125	2	30		
1,2-Dichloropropane	99	100	70 - 120	1	30		
2,2-Dichloropropane	99	101	65 - 135	2	30		
2-Hexanone	111	102	45 - 145	8	30		
4-Methyl-2-pentanone (MIBK)	111	108	45 - 145	3	30		
4-Isopropyltoluene	91	94	75 - 135	4	30		
Benzene	98	100	75 - 125	2	30		
Acetone	98	95	20 - 160	3	30		
Bromobenzene	96	99	65 - 120	3	30		
Bromoform	103	103	55 - 135	0	30		
Bromomethane	99	92	30 - 160	8	30		
Carbon tetrachloride	92	94	65 - 135	3	30		
Carbon disulfide	107	101	45 - 160	5	30		
2-Chlorotoluene	98	101	70 - 130	4	30		
4-Chlorotoluene	95	100	75 - 125	5	30		
Chlorobenzene	87	94	75 - 125	8	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26668

Method: 8260B/DoD

Preparation: 5035

LCS Lab Sample ID: LCS 280-26668/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1232
 Date Prepared: 08/12/2010 0600

Analysis Batch: 280-26762
 Prep Batch: 280-26668
 Units: ug/Kg

Instrument ID: MSV_G
 Lab File ID: G7608.D
 Initial Weight/Volume: 5 g
 Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 280-26668/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1255
 Date Prepared: 08/12/2010 0600

Analysis Batch: 280-26762
 Prep Batch: 280-26668
 Units: ug/Kg

Instrument ID: MSV_G
 Lab File ID: G7609.D
 Initial Weight/Volume: 5 g
 Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Chlorobromomethane	101	99	70 - 125	2	30		
Chlorodibromomethane	104	99	65 - 130	5	30		
Chloroform	97	97	70 - 125	0	30		
Chloroethane	104	95	40 - 155	9	30		
Chloromethane	102	96	50 - 130	6	30		
cis-1,2-Dichloroethene	97	97	65 - 125	0	30		
cis-1,3-Dichloropropene	103	105	70 - 125	1	30		
Dibromomethane	101	101	75 - 130	0	30		
Dichlorobromomethane	99	98	70 - 130	1	30		
Dichlorodifluoromethane	103	93	35 - 135	10	30		
Ethylbenzene	89	91	75 - 125	2	30		
Hexachlorobutadiene	88	91	55 - 140	3	30		
Isopropylbenzene	96	101	75 - 130	5	30		
Ethylene Dibromide	104	98	70 - 125	6	30		
Methylene Chloride	100	100	55 - 140	0	30		
Methyl tert-butyl ether	102	99	67 - 119	3	30		
m-Xylene & p-Xylene	92	91	80 - 125	0	30		
Naphthalene	97	97	40 - 125	0	30		
n-Butylbenzene	93	94	65 - 140	0	30		
N-Propylbenzene	95	98	65 - 135	3	30		
o-Xylene	95	95	75 - 125	1	30		
Styrene	100	100	75 - 125	0	30		
sec-Butylbenzene	94	99	65 - 130	5	30		
tert-Butylbenzene	94	98	65 - 130	5	30		
trans-1,2-Dichloroethene	95	94	65 - 135	2	30		
trans-1,3-Dichloropropene	105	104	65 - 125	1	30		
Tetrachloroethene	89	87	65 - 140	2	30		
Toluene	93	94	70 - 125	1	30		
Trichloroethene	94	95	75 - 125	2	30		
Trichlorofluoromethane	97	87	25 - 185	11	30		
Vinyl chloride	103	91	60 - 125	12	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	108	97	85 - 115
1,2-Dichloroethane-d4 (Surr)	81	79	61 - 129
4-Bromofluorobenzene (Surr)	95	95	85 - 120
Dibromofluoromethane (Surr)	94	89	71 - 126

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26668**
**Method: 8260B/DoD
Preparation: 5035**

LCS Lab Sample ID: LCS 280-26668/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1232
 Date Prepared: 08/12/2010 0600

Units: ug/Kg

LCSD Lab Sample ID: LCSD 280-26668/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1255
 Date Prepared: 08/12/2010 0600

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1,1,2-Tetrachloroethane	50.0	50.0	48.1	48.8
1,1,1-Trichloroethane	50.0	50.0	47.7	47.9
1,2,3-Trichloropropane	50.0	50.0	45.0	46.2
1,2,3-Trichlorobenzene	50.0	50.0	47.9	47.3
1,1-Dichloroethane	50.0	50.0	47.8	47.5
1,2,4-Trichlorobenzene	50.0	50.0	46.9	46.7
1,2-Dibromo-3-Chloropropane	50.0	50.0	47.5	47.8
1,1-Dichloropropene	50.0	50.0	49.2	50.5
1,1-Dichloroethene	50.0	50.0	49.5	50.1
1,1,2-Trichloroethane	50.0	50.0	51.4	50.5
1,1,2,2-Tetrachloroethane	50.0	50.0	51.8	53.0
1,2,4-Trimethylbenzene	50.0	50.0	46.7	48.1
1,2-Dichlorobenzene	50.0	50.0	46.9	46.6
1,2-Dichloroethane	50.0	50.0	51.9	51.7
1,3-Dichlorobenzene	50.0	50.0	47.0	47.4
1,3-Dichloropropane	50.0	50.0	51.3	49.0
1,3,5-Trimethylbenzene	50.0	50.0	47.6	50.4
2-Butanone (MEK)	200	200	212	205
1,4-Dichlorobenzene	50.0	50.0	47.4	46.5
1,2-Dichloropropane	50.0	50.0	49.3	49.8
2,2-Dichloropropane	50.0	50.0	49.7	50.5
2-Hexanone	200	200	222	205
4-Methyl-2-pentanone (MIBK)	200	200	223	217
4-Isopropyltoluene	50.0	50.0	45.4	47.1
Benzene	50.0	50.0	49.1	50.2
Acetone	200	200	195	189
Bromobenzene	50.0	50.0	47.8	49.4
Bromoform	50.0	50.0	51.5	51.4
Bromomethane	50.0	50.0	49.5	45.8
Carbon tetrachloride	50.0	50.0	45.9	47.2
Carbon disulfide	50.0	50.0	53.4	50.6
2-Chlorotoluene	50.0	50.0	48.9	50.7
4-Chlorotoluene	50.0	50.0	47.7	50.1
Chlorobenzene	50.0	50.0	43.3	46.9
Chlorobromomethane	50.0	50.0	50.7	49.6
Chlorodibromomethane	50.0	50.0	52.2	49.5
Chloroform	50.0	50.0	48.4	48.5
Chloroethane	50.0	50.0	51.9	47.4
Chloromethane	50.0	50.0	50.8	47.8
cis-1,2-Dichloroethene	50.0	50.0	48.3	48.5
cis-1,3-Dichloropropene	50.0	50.0	51.5	52.3

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26668**
**Method: 8260B/DoD
Preparation: 5035**

LCS Lab Sample ID: LCS 280-26668/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1232
 Date Prepared: 08/12/2010 0600

Units: ug/Kg

LCSD Lab Sample ID: LCSD 280-26668/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1255
 Date Prepared: 08/12/2010 0600

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Dibromomethane	50.0	50.0	50.7	50.6
Dichlorobromomethane	50.0	50.0	49.4	49.2
Dichlorodifluoromethane	50.0	50.0	51.7	46.6
Ethylbenzene	50.0	50.0	44.5	45.6
Hexachlorobutadiene	50.0	50.0	44.2	45.7
Isopropylbenzene	50.0	50.0	48.1	50.7
Ethylene Dibromide	50.0	50.0	52.1	49.0
Methylene Chloride	50.0	50.0	50.0	49.8
Methyl tert-butyl ether	100	100	102	99.2
m-Xylene & p-Xylene	100	100	91.6	91.4
Naphthalene	50.0	50.0	48.6	48.6
n-Butylbenzene	50.0	50.0	46.6	46.8
N-Propylbenzene	50.0	50.0	47.3	48.9
o-Xylene	50.0	50.0	47.6	47.3
Styrene	50.0	50.0	49.9	50.0
sec-Butylbenzene	50.0	50.0	47.2	49.6
tert-Butylbenzene	50.0	50.0	46.8	49.1
trans-1,2-Dichloroethene	50.0	50.0	47.7	46.9
trans-1,3-Dichloropropene	50.0	50.0	52.3	51.8
Tetrachloroethene	50.0	50.0	44.6	43.6
Toluene	50.0	50.0	46.6	47.2
Trichloroethene	50.0	50.0	46.8	47.6
Trichlorofluoromethane	50.0	50.0	48.7	43.6
Vinyl chloride	50.0	50.0	51.3	45.5

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-25954

Method: 8270C/DoD

Preparation: 3520C

Lab Sample ID: MB 280-25954/1-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/19/2010 1404

Date Prepared: 08/07/2010 1612

Analysis Batch: 280-27824

Prep Batch: 280-25954

Units: ug/L

Instrument ID: MSS_D

Lab File ID: D7617.D

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1000 uL

Injection Volume: 0.5 uL

Analyte	Result	Qual	DL	LOQ
Acenaphthene	1.0	U	0.28	10
Acenaphthylene	1.0	U	0.49	10
Anthracene	1.0	U	0.42	10
Benidine	100	U	50	200
Benzo[a]anthracene	1.0	U	0.35	10
Benzoic acid	50	U	10	80
Benzo[b]fluoranthene	1.0	U	0.53	10
Benzo[k]fluoranthene	1.0	U	0.46	10
Benzyl alcohol	1.0	U	0.23	25
Bis(2-chloroethoxy)methane	4.0	U	0.97	10
Bis(2-chloroethyl)ether	1.0	U	0.41	20
4-Bromophenyl phenyl ether	1.0	U	0.43	10
Butyl benzyl phthalate	4.0	U	1.0	20
2,4-Dimethylphenol	4.0	U	0.58	10
Dimethyl phthalate	1.0	U	0.21	20
4,6-Dinitro-2-methylphenol	10	U	4.0	80
2,4-Dinitrophenol	20	U	10	80
2,4-Dinitrotoluene	4.0	U	1.7	20
2,6-Dinitrotoluene	4.0	U	1.9	20
Fluoranthene	1.0	U	0.20	20
Fluorene	1.0	U	0.31	10
1,2-Diphenylhydrazine	1.0	U	0.23	10
Hexachlorobenzene	1.0	U	0.66	10
Hexachlorobutadiene	10	U	3.3	30
Hexachloroethane	1.0	U	2.1	10
N-Nitrosodiphenylamine	1.0	U	0.44	10
N-Nitrosodi-n-propylamine	1.0	U	0.35	20
1,4-Dichlorobenzene	1.0	U	0.32	10
2-Chloronaphthalene	1.0	U	0.26	10
2-Chlorophenol	4.0	U	2.0	10
4-Chlorophenyl phenyl ether	4.0	U	1.7	10
Chrysene	1.0	U	0.54	10
Dibenz(a,h)anthracene	1.0	U	0.51	10
Dibenzofuran	1.0	U	0.29	10
Benzo[g,h,i]perylene	1.0	U	0.50	10
Benzo[a]pyrene	1.0	U	0.31	10
Di-n-butyl phthalate	4.0	U	1.2	20
1,2-Dichlorobenzene	1.0	U	0.23	10
1,3-Dichlorobenzene	1.0	U	0.30	10
3,3'-Dichlorobenzidine	10	U	2.0	50
2,4-Dichlorophenol	2.0	U	0.64	10
Diethyl phthalate	1.0	U	0.38	20
Indeno[1,2,3-cd]pyrene	1.0	U	0.65	10

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-25954

Method: 8270C/DoD

Preparation: 3520C

Lab Sample ID: MB 280-25954/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1404
 Date Prepared: 08/07/2010 1612

Analysis Batch: 280-27824
 Prep Batch: 280-25954
 Units: ug/L

Instrument ID: MSS_D
 Lab File ID: D7617.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	Result	Qual	DL	LOQ
Isophorone	1.0	U	0.21	10
2-Methylnaphthalene	1.0	U	0.29	10
2-Methylphenol	4.0	U	0.98	10
Naphthalene	1.0	U	0.29	10
2-Nitroaniline	4.0	U	1.7	50
3-Nitroaniline	2.0	U	2.0	50
4-Nitroaniline	4.0	U	2.0	50
Nitrobenzene	2.0	U	0.81	20
2-Nitrophenol	1.0	U	0.39	20
4-Nitrophenol	1.0	U	1.2	50
Pyrene	1.0	U	0.37	10
Pentachlorophenol	40	U	20	80
Phenanthrene	1.0	U	0.26	10
1,2,4-Trichlorobenzene	1.0	U	0.28	10
2,4,5-Trichlorophenol	1.0	U	0.45	20
2,4,6-Trichlorophenol	1.0	U	0.29	20
Phenol	1.0	U	2.0	10
Carbazole	1.0	U	0.43	10
N-Nitrosodimethylamine	1.0	U	0.29	10
Bis(2-ethylhexyl) phthalate	1.0	U	0.56	10
Di-n-octyl phthalate	1.0	U	0.35	20
3 & 4 Methylphenol	1.0	U	0.25	20
4-Chloro-3-methylphenol	5.0	U	2.4	20
2,2'-oxybis[1-chloropropane]	1.0	U	0.28	10
4-Chloroaniline	5.0	U	2.1	25
2,6-Dichlorophenol	4.0	U	1.4	10
N-Nitrosopyrrolidine	4.0	U	0.80	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	25	50 - 110
2-Fluorophenol (Surr)	76	20 - 110
Nitrobenzene-d5 (Surr)	57	40 - 110
Terphenyl-d14 (Surr)	107	50 - 135
2,4,6-Tribromophenol (Surr)	98	40 - 125
Phenol-d5 (Surr)	90	10 - 115

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-25954**
**Method: 8270C/DoD
Preparation: 3520C**

LCS Lab Sample ID: LCS 280-25954/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/19/2010 1146
Date Prepared: 08/07/2010 1612

Analysis Batch: 280-27824
Prep Batch: 280-25954
Units: ug/L

Instrument ID: MSS_D
Lab File ID: D7609.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-25954/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/19/2010 1204
Date Prepared: 08/07/2010 1612

Analysis Batch: 280-27824
Prep Batch: 280-25954
Units: ug/L

Instrument ID: MSS_D
Lab File ID: D7610.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acenaphthene	43	67	45 - 110	43	30	Q	Q
Acenaphthylene	43	68	50 - 105	44	30	Q	Q
Anthracene	87	86	55 - 110	1	30		
Benzo[a]anthracene	89	85	55 - 110	5	30		
Benzoic acid	86	93	10 - 125	8	30	J	J
Benzo[b]fluoranthene	87	95	45 - 120	9	30		
Benzo[k]fluoranthene	92	80	45 - 125	15	30		
Benzyl alcohol	99	104	30 - 110	5	30		
Bis(2-chloroethoxy)methane	81	88	45 - 105	8	30		
Bis(2-chloroethyl)ether	75	79	35 - 110	5	30		
4-Bromophenyl phenyl ether	73	83	50 - 115	13	30		
Butyl benzyl phthalate	85	81	45 - 115	4	30		
2,4-Dimethylphenol	63	67	30 - 110	5	30		
Dimethyl phthalate	93	97	25 - 125	5	30		
4,6-Dinitro-2-methylphenol	95	94	40 - 130	1	30	J	J
2,4-Dinitrophenol	104	106	15 - 140	2	30		
2,4-Dinitrotoluene	97	99	50 - 120	2	30		
2,6-Dinitrotoluene	86	93	50 - 115	8	30		
Fluoranthene	95	94	55 - 115	1	30		
Fluorene	61	79	50 - 110	25	30		
1,2-Diphenylhydrazine	63	75	55 - 115	17	30		
Hexachlorobenzene	89	92	50 - 110	3	30		
Hexachlorobutadiene	32	37	25 - 105	14	30	J	J
Hexachloroethane	30	33	30 - 95	10	30		
N-Nitrosodiphenylamine	79	85	50 - 110	8	30		
N-Nitrosodi-n-propylamine	82	90	35 - 130	9	30		
1,4-Dichlorobenzene	36	42	30 - 100	14	30		
2-Chloronaphthalene	38	57	50 - 105	40	30	Q	Q
2-Chlorophenol	83	87	35 - 105	5	30		
4-Chlorophenyl phenyl ether	60	80	50 - 110	29	30		
Chrysene	88	83	55 - 110	5	30		
Dibenz(a,h)anthracene	94	91	40 - 125	3	30		
Dibenzofuran	50	72	55 - 105	36	30	Q	Q
Benzo[g,h,i]perylene	95	92	40 - 125	3	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-25954

Method: 8270C/DoD

Preparation: 3520C

LCS Lab Sample ID: LCS 280-25954/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1146
 Date Prepared: 08/07/2010 1612

Analysis Batch: 280-27824
 Prep Batch: 280-25954
 Units: ug/L

Instrument ID: MSS_D
 Lab File ID: D7609.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-25954/17-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1204
 Date Prepared: 08/07/2010 1612

Analysis Batch: 280-27824
 Prep Batch: 280-25954
 Units: ug/L

Instrument ID: MSS_D
 Lab File ID: D7610.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzo[a]pyrene	75	75	55 - 110	1	30		
Di-n-butyl phthalate	92	90	55 - 115	2	30		
1,2-Dichlorobenzene	38	44	35 - 100	14	30		
1,3-Dichlorobenzene	36	40	30 - 100	11	30		
3,3'-Dichlorobenzidine	53	58	20 - 110	8	30	J	J
2,4-Dichlorophenol	83	87	50 - 105	5	30		
Diethyl phthalate	93	95	40 - 120	3	30		
Indeno[1,2,3-cd]pyrene	101	96	45 - 125	5	30		
Isophorone	83	88	50 - 110	6	30		
2-Methylnaphthalene	36	47	45 - 105	26	30	Q	
2-Methylphenol	88	88	40 - 110	1	30		
Naphthalene	40	48	40 - 100	18	30		
2-Nitroaniline	97	102	50 - 115	5	30		
3-Nitroaniline	97	97	20 - 125	1	30		
4-Nitroaniline	95	98	35 - 120	4	30		
Nitrobenzene	67	78	45 - 110	14	30		
2-Nitrophenol	77	86	40 - 115	11	30		
4-Nitrophenol	90	96	10 - 125	6	30		
Pyrene	85	83	50 - 130	3	30		
Pentachlorophenol	100	103	40 - 115	3	30		
Phenanthrene	83	85	50 - 115	3	30		
1,2,4-Trichlorobenzene	31	37	35 - 105	17	30	Q	
2,4,5-Trichlorophenol	90	101	50 - 110	11	30		
2,4,6-Trichlorophenol	80	93	50 - 115	16	30		
Phenol	89	95	10 - 115	6	30		
Carbazole	92	91	50 - 115	2	30		
N-Nitrosodimethylamine	91	92	25 - 110	1	30		
Bis(2-ethylhexyl) phthalate	90	86	40 - 125	4	30		
Di-n-octyl phthalate	86	83	35 - 135	4	30		
3 & 4 Methylphenol	91	94	30 - 110	3	30		
4-Chloro-3-methylphenol	93	94	45 - 110	2	30		
2,2'-oxybis[1-chloropropane]	70	78	25 - 130	11	30		
4-Chloroaniline	80	83	15 - 110	4	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	45	Q	55	50 - 110
2-Fluorophenol (Surr)	76		86	20 - 110
Nitrobenzene-d5 (Surr)	57		72	40 - 110
Terphenyl-d14 (Surr)	98		95	50 - 135
2,4,6-Tribromophenol (Surr)	105		109	40 - 125
Phenol-d5 (Surr)	92		98	10 - 115

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-25954**
**Method: 8270C/DoD
Preparation: 3520C**

LCS Lab Sample ID: LCS 280-25954/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1146
 Date Prepared: 08/07/2010 1612

Units: ug/L

LCSD Lab Sample ID: LCSD 280-25954/17-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1204
 Date Prepared: 08/07/2010 1612

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Acenaphthene	80.0	80.0	34.4	Q	53.4	Q
Acenaphthylene	80.0	80.0	34.4	Q	54.0	Q
Anthracene	80.0	80.0	69.3		68.9	
Benzo[a]anthracene	80.0	80.0	71.0		67.6	
Benzoic acid	80.0	80.0	69.0	J	74.5	J
Benzo[b]fluoranthene	80.0	80.0	69.2		76.0	
Benzo[k]fluoranthene	80.0	80.0	73.8		63.6	
Benzyl alcohol	80.0	80.0	79.4		83.5	
Bis(2-chloroethoxy)methane	80.0	80.0	64.4		70.0	
Bis(2-chloroethyl)ether	80.0	80.0	60.1		63.1	
4-Bromophenyl phenyl ether	80.0	80.0	58.6		66.5	
Butyl benzyl phthalate	80.0	80.0	68.0		65.0	
2,4-Dimethylphenol	80.0	80.0	50.7		53.3	
Dimethyl phthalate	80.0	80.0	74.2		78.0	
4,6-Dinitro-2-methylphenol	80.0	80.0	76.0	J	75.2	J
2,4-Dinitrophenol	80.0	80.0	83.2		84.7	
2,4-Dinitrotoluene	80.0	80.0	77.5		79.3	
2,6-Dinitrotoluene	80.0	80.0	69.0		74.5	
Fluoranthene	80.0	80.0	76.2		75.5	
Fluorene	80.0	80.0	49.1		62.9	
1,2-Diphenylhydrazine	80.9	80.9	51.0		60.6	
Hexachlorobenzene	80.0	80.0	70.9		73.4	
Hexachlorobutadiene	80.0	80.0	25.9	J	29.6	J
Hexachloroethane	80.0	80.0	24.1		26.6	
N-Nitrosodiphenylamine	68.3	68.3	53.9		58.3	
N-Nitrosodi-n-propylamine	80.0	80.0	65.8		71.7	
1,4-Dichlorobenzene	80.0	80.0	29.1		33.3	
2-Chloronaphthalene	80.0	80.0	30.3	Q	45.6	Q
2-Chlorophenol	80.0	80.0	66.7		69.9	
4-Chlorophenyl phenyl ether	80.0	80.0	47.8		64.3	
Chrysene	80.0	80.0	70.1		66.7	
Dibenz(a,h)anthracene	80.0	80.0	74.8		72.4	
Dibenzofuran	80.0	80.0	39.9	Q	57.5	Q
Benzo[g,h,i]perylene	80.0	80.0	75.8		73.5	
Benzo[a]pyrene	80.0	80.0	60.3		59.7	
Di-n-butyl phthalate	80.0	80.0	73.4		71.6	
1,2-Dichlorobenzene	80.0	80.0	30.2		34.9	
1,3-Dichlorobenzene	80.0	80.0	29.1		32.4	
3,3'-Dichlorobenzidine	80.0	80.0	42.7	J	46.4	J
2,4-Dichlorophenol	80.0	80.0	66.0		69.3	
Diethyl phthalate	80.0	80.0	74.4		76.4	

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-25954**
**Method: 8270C/DoD
Preparation: 3520C**

LCS Lab Sample ID: LCS 280-25954/2-A

Units: ug/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/19/2010 1146

Date Prepared: 08/07/2010 1612

LCSD Lab Sample ID: LCSD 280-25954/17-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/19/2010 1204

Date Prepared: 08/07/2010 1612

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Indeno[1,2,3-cd]pyrene	80.0	80.0	80.5	76.6
Isophorone	80.0	80.0	66.1	70.6
2-Methylnaphthalene	80.0	80.0	29.0	37.8
2-Methylphenol	80.0	80.0	70.1	70.7
Naphthalene	80.0	80.0	31.9	38.1
2-Nitroaniline	80.0	80.0	77.7	81.7
3-Nitroaniline	80.0	80.0	77.9	77.3
4-Nitroaniline	80.0	80.0	75.6	78.6
Nitrobenzene	80.0	80.0	53.9	62.1
2-Nitrophenol	80.0	80.0	61.7	68.9
4-Nitrophenol	80.0	80.0	72.4	77.0
Pyrene	80.0	80.0	68.4	66.4
Pentachlorophenol	80.0	80.0	80.3	82.4
Phenanthrene	80.0	80.0	66.3	68.1
1,2,4-Trichlorobenzene	80.0	80.0	24.9	29.6
2,4,5-Trichlorophenol	80.0	80.0	72.1	80.5
2,4,6-Trichlorophenol	80.0	80.0	63.7	74.6
Phenol	80.0	80.0	71.5	75.7
Carbazole	80.0	80.0	73.8	72.7
N-Nitrosodimethylamine	80.0	80.0	73.1	73.9
Bis(2-ethylhexyl) phthalate	80.0	80.0	71.8	69.2
Di-n-octyl phthalate	80.0	80.0	68.9	66.5
3 & 4 Methylphenol	160	160	145	150
4-Chloro-3-methylphenol	80.0	80.0	74.1	75.3
2,2'-oxybis[1-chloropropane]	80.0	80.0	56.3	62.6
4-Chloroaniline	80.0	80.0	64.0	66.6

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26179

Lab Sample ID: MB 280-26179/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1819
 Date Prepared: 08/10/2010 1430

Analysis Batch: 280-27640
 Prep Batch: 280-26179
 Units: ug/Kg

Method: 8270C/DoD
 Preparation: 3550C

Instrument ID: MSS_D
 Lab File ID: D7580.D
 Initial Weight/Volume: 30.4 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	Result	Qual	DL	LOQ
Acenaphthene	17	U	10	330
Acenaphthylene	33	U	17	330
Anthracene	33	U	17	330
Benidine	3900	U	980	3900
Benzo[a]anthracene	33	U	20	330
Benzoic acid	650	U	330	1600
Benzo[b]fluoranthene	33	U	26	330
Benzo[k]fluoranthene	65	U	39	330
Benzyl alcohol	33	U	9.9	330
Bis(2-chloroethoxy)methane	65	U	23	330
Bis(2-chloroethyl)ether	33	U	16	330
4-Bromophenyl phenyl ether	33	U	19	330
Butyl benzyl phthalate	65	U	42	330
2,4-Dimethylphenol	130	U	65	330
Dimethyl phthalate	33	U	23	330
4,6-Dinitro-2-methylphenol	650	U	330	1600
2,4-Dinitrophenol	660	U	330	1600
2,4-Dinitrotoluene	130	U	65	330
2,6-Dinitrotoluene	65	U	28	330
Fluoranthene	65	U	36	330
Fluorene	33	U	18	330
1,2-Diphenylhydrazine	33	U	22	330
Hexachlorobenzene	65	U	29	330
Hexachlorobutadiene	65	U	9.9	330
Hexachloroethane	33	U	21	330
N-Nitrosodiphenylamine	33	U	21	330
N-Nitrosodi-n-propylamine	65	U	31	330
1,4-Dichlorobenzene	33	U	13	330
2-Chloronaphthalene	33	U	9.9	330
2-Chlorophenol	33	U	21	330
4-Chlorophenyl phenyl ether	65	U	21	330
Chrysene	33	U	27	330
Dibenz(a,h)anthracene	33	U	19	330
Dibenzofuran	33	U	20	330
Benzo[g,h,i]perylene	33	U	16	330
Benzo[a]pyrene	33	U	20	330
Di-n-butyl phthalate	33	U	29	330
1,2-Dichlorobenzene	33	U	22	330
1,3-Dichlorobenzene	33	U	12	330
3,3'-Dichlorobenzidine	330	U	89	1600
2,4-Dichlorophenol	65	U	9.9	330
Diethyl phthalate	33	U	26	650
Indeno[1,2,3-cd]pyrene	33	U	22	330

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26179

Method: 8270C/DoD
Preparation: 3550C

Lab Sample ID: MB 280-26179/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1819
 Date Prepared: 08/10/2010 1430

Analysis Batch: 280-27640
 Prep Batch: 280-26179
 Units: ug/Kg

Instrument ID: MSS_D
 Lab File ID: D7580.D
 Initial Weight/Volume: 30.4 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	Result	Qual	DL	LOQ
Isophorone	33	U	17	330
2-Methylnaphthalene	33	U	19	330
2-Methylphenol	33	U	13	330
Naphthalene	65	U	31	330
2-Nitroaniline	65	U	49	1600
3-Nitroaniline	65	U	72	1600
4-Nitroaniline	130	U	72	1600
Nitrobenzene	33	U	22	330
2-Nitrophenol	65	U	9.9	330
4-Nitrophenol	330	U	96	1600
Pyrene	33	U	12	390
Pentachlorophenol	660	U	330	1600
Phenanthrene	33	U	17	330
1,2,4-Trichlorobenzene	33	U	28	330
2,4,5-Trichlorophenol	130	U	9.9	330
2,4,6-Trichlorophenol	65	U	9.9	330
Phenol	33	U	18	330
Carbazole	33	U	36	330
N-Nitrosodimethylamine	65	U	37	510
Bis(2-ethylhexyl) phthalate	65	U	45	330
Di-n-octyl phthalate	65	U	14	330
3 & 4 Methylphenol	65	U	33	330
4-Chloro-3-methylphenol	130	U	65	330
2,2'-oxybis[1-chloropropane]	33	U	23	330
4-Chloroaniline	130	U	81	330
2,6-Dichlorophenol	130	U	68	330
N-Nitrosopyrrolidine	130	U	63	330

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	71	45 - 105
2-Fluorophenol (Surr)	75	35 - 105
Nitrobenzene-d5 (Surr)	69	35 - 100
Terphenyl-d14 (Surr)	89	30 - 125
2,4,6-Tribromophenol (Surr)	78	35 - 125
Phenol-d5 (Surr)	74	40 - 100

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26179

Method: 8270C/DoD

Preparation: 3550C

LCS Lab Sample ID: LCS 280-26179/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1347
 Date Prepared: 08/10/2010 1430

Analysis Batch: 280-27640
 Prep Batch: 280-26179
 Units: ug/Kg

Instrument ID: MSS_D
 Lab File ID: D7565.D
 Initial Weight/Volume: 31.8 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-26179/4-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1406
 Date Prepared: 08/10/2010 1430

Analysis Batch: 280-27640
 Prep Batch: 280-26179
 Units: ug/Kg

Instrument ID: MSS_D
 Lab File ID: D7566.D
 Initial Weight/Volume: 30.2 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acenaphthene	71	70	45 - 110	5	30		
Acenaphthylene	71	71	45 - 105	6	30		
Anthracene	79	77	55 - 105	4	30		
Benzo[a]anthracene	81	78	50 - 110	2	30		
Benzoic acid	37	17	10 - 110	71	30	J	J Q
Benzo[b]fluoranthene	87	77	45 - 115	7	30		
Benzo[k]fluoranthene	76	82	45 - 125	12	30		
Benzyl alcohol	77	83	20 - 125	13	30		
Bis(2-chloroethoxy)methane	66	68	45 - 110	8	30		
Bis(2-chloroethyl)ether	63	66	40 - 105	10	30		
4-Bromophenyl phenyl ether	79	79	45 - 115	5	30		
Butyl benzyl phthalate	73	71	50 - 125	2	30		
2,4-Dimethylphenol	61	64	30 - 105	10	30		
Dimethyl phthalate	80	79	50 - 110	4	30		
4,6-Dinitro-2-methylphenol	47	23	30 - 135	63	30	J	J Q
2,4-Dinitrophenol	30	16	15 - 130	54	30	J	J Q
2,4-Dinitrotoluene	86	82	50 - 115	0	30		
2,6-Dinitrotoluene	76	77	50 - 110	6	30		
Fluoranthene	86	84	55 - 115	3	30		
Fluorene	75	74	50 - 110	4	30		
1,2-Diphenylhydrazine	70	69	54 - 120	4	30		
Hexachlorobenzene	84	81	45 - 120	2	30		
Hexachlorobutadiene	63	67	40 - 115	12	30		
Hexachloroethane	56	61	35 - 110	13	30		
N-Nitrosodiphenylamine	76	74	50 - 115	3	30		
N-Nitrosodi-n-propylamine	67	71	40 - 115	11	30		
1,4-Dichlorobenzene	63	67	35 - 105	11	30		
2-Chloronaphthalene	71	71	45 - 105	6	30		
2-Chlorophenol	67	72	45 - 105	12	30		
4-Chlorophenyl phenyl ether	78	78	45 - 110	6	30		
Chrysene	79	76	55 - 110	1	30		
Dibenz(a,h)anthracene	84	83	40 - 125	3	30		
Dibenzofuran	73	73	50 - 105	5	30		
Benzo[g,h,i]perylene	87	85	40 - 125	4	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26179

Method: 8270C/DoD

Preparation: 3550C

LCS Lab Sample ID: LCS 280-26179/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1347
 Date Prepared: 08/10/2010 1430

Analysis Batch: 280-27640
 Prep Batch: 280-26179
 Units: ug/Kg

Instrument ID: MSS_D
 Lab File ID: D7565.D
 Initial Weight/Volume: 31.8 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-26179/4-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1406
 Date Prepared: 08/10/2010 1430

Analysis Batch: 280-27640
 Prep Batch: 280-26179
 Units: ug/Kg

Instrument ID: MSS_D
 Lab File ID: D7566.D
 Initial Weight/Volume: 30.2 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzo[a]pyrene	71	69	50 - 110	4	30		
Di-n-butyl phthalate	81	79	55 - 110	2	30		
1,2-Dichlorobenzene	65	67	45 - 95	9	30		
1,3-Dichlorobenzene	63	67	40 - 100	11	30		
3,3'-Dichlorobenzidine	66	61	10 - 130	3	30		
2,4-Dichlorophenol	69	71	45 - 110	8	30		
Diethyl phthalate	81	79	50 - 115	3	30		
Indeno[1,2,3-cd]pyrene	90	85	40 - 120	0	30		
Isophorone	66	69	45 - 110	9	30		
2-Methylnaphthalene	66	69	45 - 105	9	30		
2-Methylphenol	68	73	40 - 105	13	30		
Naphthalene	63	66	40 - 105	10	30		
2-Nitroaniline	82	81	45 - 120	4	30		
3-Nitroaniline	78	74	25 - 110	1	30		
4-Nitroaniline	83	79	35 - 115	1	30		
Nitrobenzene	62	65	40 - 115	9	30		
2-Nitrophenol	67	68	40 - 110	6	30		
4-Nitrophenol	81	75	15 - 140	3	30		
Pyrene	77	75	45 - 125	3	30		
Pentachlorophenol	82	71	25 - 120	10	30		
Phenanthrene	79	77	50 - 110	2	30		
1,2,4-Trichlorobenzene	58	59	45 - 110	8	30		
2,4,5-Trichlorophenol	81	79	50 - 110	2	30		
2,4,6-Trichlorophenol	73	72	45 - 110	5	30		
Phenol	72	74	40 - 100	8	30		
Carbazole	80	79	45 - 115	3	30		
N-Nitrosodimethylamine	69	71	20 - 115	8	30		
Bis(2-ethylhexyl) phthalate	80	76	45 - 125	0	30		
Di-n-octyl phthalate	75	73	40 - 130	2	30		
3 & 4 Methylphenol	72	75	40 - 105	10	30		
4-Chloro-3-methylphenol	74	76	45 - 115	7	30		
2,2'-oxybis[1-chloropropane]	70	74	20 - 115	11	30		
4-Chloroaniline	57	57	10 - 95	5	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	71	72	45 - 105
2-Fluorophenol (Surr)	71	73	35 - 105
Nitrobenzene-d5 (Surr)	63	65	35 - 100
Terphenyl-d14 (Surr)	87	83	30 - 125
2,4,6-Tribromophenol (Surr)	89	83	35 - 125
Phenol-d5 (Surr)	74	77	40 - 100

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26179**
**Method: 8270C/DoD
Preparation: 3550C**

LCS Lab Sample ID: LCS 280-26179/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1347
 Date Prepared: 08/10/2010 1430

Units: ug/Kg

LCSD Lab Sample ID: LCSD 280-26179/4-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1406
 Date Prepared: 08/10/2010 1430

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acenaphthene	2520	2650	1780	1870
Acenaphthylene	2520	2650	1780	1880
Anthracene	2520	2650	1980	2050
Benzo[a]anthracene	2520	2650	2030	2070
Benzoic acid	2520	2650	924 J	442 J Q
Benzo[b]fluoranthene	2520	2650	2200	2050
Benzo[k]fluoranthene	2520	2650	1920	2170
Benzyl alcohol	2520	2650	1930	2200
Bis(2-chloroethoxy)methane	2520	2650	1670	1810
Bis(2-chloroethyl)ether	2520	2650	1590	1750
4-Bromophenyl phenyl ether	2520	2650	1980	2080
Butyl benzyl phthalate	2520	2650	1840	1880
2,4-Dimethylphenol	2520	2650	1540	1690
Dimethyl phthalate	2520	2650	2020	2100
4,6-Dinitro-2-methylphenol	2520	2650	1180 J	612 J Q
2,4-Dinitrophenol	2520	2650	746 J	429 J Q
2,4-Dinitrotoluene	2520	2650	2160	2170
2,6-Dinitrotoluene	2520	2650	1920	2030
Fluoranthene	2520	2650	2170	2230
Fluorene	2520	2650	1880	1960
1,2-Diphenylhydrazine	2540	2680	1780	1850
Hexachlorobenzene	2520	2650	2120	2160
Hexachlorobutadiene	2520	2650	1570	1780
Hexachloroethane	2520	2650	1420	1610
N-Nitrosodiphenylamine	2150	2260	1620	1680
N-Nitrosodi-n-propylamine	2520	2650	1690	1890
1,4-Dichlorobenzene	2520	2650	1580	1760
2-Chloronaphthalene	2520	2650	1790	1890
2-Chlorophenol	2520	2650	1700	1910
4-Chlorophenyl phenyl ether	2520	2650	1960	2080
Chrysene	2520	2650	2000	2020
Dibenz(a,h)anthracene	2520	2650	2120	2190
Dibenzofuran	2520	2650	1850	1940
Benzo[g,h,i]perylene	2520	2650	2180	2260
Benzo[a]pyrene	2520	2650	1770	1840
Di-n-butyl phthalate	2520	2650	2050	2080
1,2-Dichlorobenzene	2520	2650	1630	1780
1,3-Dichlorobenzene	2520	2650	1580	1770
3,3'-Dichlorobenzidine	2520	2650	1670	1620
2,4-Dichlorophenol	2520	2650	1740	1880
Diethyl phthalate	2520	2650	2040	2100

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26179**

**Method: 8270C/DoD
Preparation: 3550C**

LCS Lab Sample ID: LCS 280-26179/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/17/2010 1347
Date Prepared: 08/10/2010 1430

Units: ug/Kg

LCSD Lab Sample ID: LCSD 280-26179/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/17/2010 1406
Date Prepared: 08/10/2010 1430

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Indeno[1,2,3-cd]pyrene	2520	2650	2270	2260
Isophorone	2520	2650	1660	1820
2-Methylnaphthalene	2520	2650	1670	1830
2-Methylphenol	2520	2650	1710	1950
Naphthalene	2520	2650	1600	1760
2-Nitroaniline	2520	2650	2060	2140
3-Nitroaniline	2520	2650	1970	1950
4-Nitroaniline	2520	2650	2080	2090
Nitrobenzene	2520	2650	1570	1710
2-Nitrophenol	2520	2650	1680	1800
4-Nitrophenol	2520	2650	2040	1970
Pyrene	2520	2650	1930	1990
Pentachlorophenol	2520	2650	2070	1880
Phenanthrene	2520	2650	1980	2030
1,2,4-Trichlorobenzene	2520	2650	1460	1570
2,4,5-Trichlorophenol	2520	2650	2040	2090
2,4,6-Trichlorophenol	2520	2650	1820	1920
Phenol	2520	2650	1800	1950
Carbazole	2520	2650	2020	2090
N-Nitrosodimethylamine	2520	2650	1730	1880
Bis(2-ethylhexyl) phthalate	2520	2650	2020	2010
Di-n-octyl phthalate	2520	2650	1890	1920
3 & 4 Methylphenol	5030	5300	3620	4000
4-Chloro-3-methylphenol	2520	2650	1860	2000
2,2'-oxybis[1-chloropropane]	2520	2650	1760	1960
4-Chloroaniline	2520	2650	1440	1510

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-28094

Method: 8270C/DoD

Preparation: 3520C

Lab Sample ID: MB 280-28094/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2011
 Date Prepared: 08/23/2010 1415

Analysis Batch: 280-29378
 Prep Batch: 280-28094
 Units: ug/L

Instrument ID: MSS_B
 Lab File ID: B9899.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	Result	Qual	DL	LOQ
Acenaphthene	1.0	U	0.28	10
Acenaphthylene	1.0	U	0.49	10
Anthracene	1.0	U	0.42	10
Benzydine	100	U	50	200
Benzo[a]anthracene	1.0	U	0.35	10
Benzoic acid	50	U	10	80
Benzo[b]fluoranthene	1.0	U	0.53	10
Benzo[k]fluoranthene	1.0	U	0.46	10
Benzyl alcohol	0.430	J	0.23	25
Bis(2-chloroethoxy)methane	4.0	U	0.97	10
Bis(2-chloroethyl)ether	1.0	U	0.41	20
4-Bromophenyl phenyl ether	1.0	U	0.43	10
Butyl benzyl phthalate	4.0	U	1.0	20
2,4-Dimethylphenol	4.0	U	0.58	10
Dimethyl phthalate	1.0	U	0.21	20
4,6-Dinitro-2-methylphenol	10	U	4.0	80
2,4-Dinitrophenol	20	U	10	80
2,4-Dinitrotoluene	4.0	U	1.7	20
2,6-Dinitrotoluene	4.0	U	1.9	20
Fluoranthene	1.0	U	0.20	20
Fluorene	1.0	U	0.31	10
1,2-Diphenylhydrazine	1.0	U	0.23	10
Hexachlorobenzene	1.0	U	0.66	10
Hexachlorobutadiene	10	U	3.3	30
Hexachloroethane	1.0	U	2.1	10
N-Nitrosodiphenylamine	1.0	U	0.44	10
N-Nitrosodi-n-propylamine	1.0	U	0.35	20
1,4-Dichlorobenzene	1.0	U	0.32	10
2-Chloronaphthalene	1.0	U	0.26	10
2-Chlorophenol	4.0	U	2.0	10
4-Chlorophenyl phenyl ether	4.0	U	1.7	10
Chrysene	1.0	U	0.54	10
Dibenz(a,h)anthracene	1.0	U	0.51	10
Dibenzofuran	1.0	U	0.29	10
Benzo[g,h,i]perylene	1.0	U	0.50	10
Benzo[a]pyrene	1.0	U	0.31	10
Di-n-butyl phthalate	4.0	U	1.2	20
1,2-Dichlorobenzene	1.0	U	0.23	10
1,3-Dichlorobenzene	1.0	U	0.30	10
3,3'-Dichlorobenzidine	10	U	2.0	50
2,4-Dichlorophenol	2.0	U	0.64	10
Diethyl phthalate	1.0	U	0.38	20
Indeno[1,2,3-cd]pyrene	1.0	U	0.65	10

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-28094

Method: 8270C/DoD
Preparation: 3520C

Lab Sample ID: MB 280-28094/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2011
 Date Prepared: 08/23/2010 1415

Analysis Batch: 280-29378
 Prep Batch: 280-28094
 Units: ug/L

Instrument ID: MSS_B
 Lab File ID: B9899.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	Result	Qual	DL	LOQ
Isophorone	1.0	U	0.21	10
2-Methylnaphthalene	1.0	U	0.29	10
2-Methylphenol	4.0	U	0.98	10
Naphthalene	1.0	U	0.29	10
2-Nitroaniline	4.0	U	1.7	50
3-Nitroaniline	2.0	U	2.0	50
4-Nitroaniline	4.0	U	2.0	50
Nitrobenzene	2.0	U	0.81	20
2-Nitrophenol	1.0	U	0.39	20
4-Nitrophenol	10	U	1.2	50
Pyrene	1.0	U	0.37	10
Pentachlorophenol	40	U	20	80
Phenanthrene	1.27	J	0.26	10
1,2,4-Trichlorobenzene	1.0	U	0.28	10
2,4,5-Trichlorophenol	1.0	U	0.45	20
2,4,6-Trichlorophenol	1.0	U	0.29	20
Phenol	5.0	U	2.0	10
Carbazole	1.0	U	0.43	10
N-Nitrosodimethylamine	1.0	U	0.29	10
Bis(2-ethylhexyl) phthalate	3.14	J	0.56	10
Di-n-octyl phthalate	4.47	J	0.35	20
3 & 4 Methylphenol	1.0	U	0.25	20
4-Chloro-3-methylphenol	5.0	U	2.4	20
2,2'-oxybis[1-chloropropane]	1.0	U	0.28	10
4-Chloroaniline	5.0	U	2.1	25
2,6-Dichlorophenol	4.0	U	1.4	10
N-Nitrosopyrrolidine	4.0	U	0.80	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	64	50 - 110
2-Fluorophenol (Surr)	85	20 - 110
Nitrobenzene-d5 (Surr)	85	40 - 110
Terphenyl-d14 (Surr)	92	50 - 135
2,4,6-Tribromophenol (Surr)	96	40 - 125
Phenol-d5 (Surr)	89	10 - 115

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-28094**
**Method: 8270C/DoD
Preparation: 3520C**

LCS Lab Sample ID: LCS 280-28094/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/28/2010 2032
Date Prepared: 08/23/2010 1415

Analysis Batch: 280-29378
Prep Batch: 280-28094
Units: ug/L

Instrument ID: MSS_B
Lab File ID: B9900.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-28094/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/28/2010 2052
Date Prepared: 08/23/2010 1415

Analysis Batch: 280-29378
Prep Batch: 280-28094
Units: ug/L

Instrument ID: MSS_B
Lab File ID: B9901.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acenaphthene	72	79	45 - 110	8	30		
Acenaphthylene	74	81	50 - 105	9	30		
Anthracene	91	95	55 - 110	4	30		
Benzo[a]anthracene	93	96	55 - 110	3	30		
Benzoic acid	109	111	10 - 125	2	30		
Benzo[b]fluoranthene	94	105	45 - 120	11	30		
Benzo[k]fluoranthene	89	86	45 - 125	3	30		
Benzyl alcohol	97	99	30 - 110	3	30		
Bis(2-chloroethoxy)methane	88	90	45 - 105	3	30		
Bis(2-chloroethyl)ether	87	92	35 - 110	5	30		
4-Bromophenyl phenyl ether	84	90	50 - 115	7	30		
Butyl benzyl phthalate	104	107	45 - 115	2	30		
2,4-Dimethylphenol	73	69	30 - 110	6	30		
Dimethyl phthalate	92	94	25 - 125	2	30		
4,6-Dinitro-2-methylphenol	68	78	40 - 130	14	30	J	J
2,4-Dinitrophenol	57	70	15 - 140	19	30	J	J
2,4-Dinitrotoluene	101	105	50 - 120	4	30		
2,6-Dinitrotoluene	95	97	50 - 115	2	30		
Fluoranthene	96	99	55 - 115	3	30		
Fluorene	83	87	50 - 110	5	30		
1,2-Diphenylhydrazine	88	92	55 - 115	5	30		
Hexachlorobenzene	87	92	50 - 110	6	30		
Hexachlorobutadiene	46	58	25 - 105	22	30		
Hexachloroethane	43	57	30 - 95	27	30		
N-Nitrosodiphenylamine	88	92	50 - 110	4	30		
N-Nitrosodi-n-propylamine	90	93	35 - 130	4	30		
1,4-Dichlorobenzene	53	62	30 - 100	17	30		
2-Chloronaphthalene	63	72	50 - 105	14	30		
2-Chlorophenol	85	89	35 - 105	4	30		
4-Chlorophenyl phenyl ether	83	87	50 - 110	4	30		
Chrysene	87	89	55 - 110	2	30		
Dibenz(a,h)anthracene	94	97	40 - 125	3	30		
Dibenzofuran	78	84	55 - 105	8	30		
Benzo[g,h,i]perylene	90	94	40 - 125	4	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-28094

Method: 8270C/DoD

Preparation: 3520C

LCS Lab Sample ID: LCS 280-28094/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2032
 Date Prepared: 08/23/2010 1415

Analysis Batch: 280-29378
 Prep Batch: 280-28094
 Units: ug/L

Instrument ID: MSS_B
 Lab File ID: B9900.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

LCSD Lab Sample ID: LCSD 280-28094/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2052
 Date Prepared: 08/23/2010 1415

Analysis Batch: 280-29378
 Prep Batch: 280-28094
 Units: ug/L

Instrument ID: MSS_B
 Lab File ID: B9901.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzo[a]pyrene	81	85	55 - 110	4	30		
Di-n-butyl phthalate	100	103	55 - 115	3	30		
1,2-Dichlorobenzene	55	65	35 - 100	17	30		
1,3-Dichlorobenzene	52	62	30 - 100	17	30		
3,3'-Dichlorobenzidine	70	73	20 - 110	5	30		
2,4-Dichlorophenol	90	94	50 - 105	5	30		
Diethyl phthalate	92	95	40 - 120	2	30		
Indeno[1,2,3-cd]pyrene	94	97	45 - 125	3	30		
Isophorone	92	94	50 - 110	2	30		
2-Methylnaphthalene	58	69	45 - 105	18	30		
2-Methylphenol	87	90	40 - 110	3	30		
Naphthalene	57	68	40 - 100	18	30		
2-Nitroaniline	107	107	50 - 115	0	30		
3-Nitroaniline	97	103	20 - 125	6	30		
4-Nitroaniline	99	101	35 - 120	1	30		
Nitrobenzene	83	88	45 - 110	6	30		
2-Nitrophenol	96	102	40 - 115	6	30		
4-Nitrophenol	100	101	10 - 125	1	30		
Pyrene	93	96	50 - 130	3	30		
Pentachlorophenol	101	104	40 - 115	3	30		
Phenanthrene	86	91	50 - 115	6	30		
1,2,4-Trichlorobenzene	48	59	35 - 105	20	30		
2,4,5-Trichlorophenol	97	100	50 - 110	3	30		
2,4,6-Trichlorophenol	100	103	50 - 115	3	30		
Phenol	92	95	10 - 115	3	30		
Carbazole	91	95	50 - 115	4	30		
N-Nitrosodimethylamine	88	90	25 - 110	3	30		
Bis(2-ethylhexyl) phthalate	107	109	40 - 125	2	30		
Di-n-octyl phthalate	108	110	35 - 135	2	30		
3 & 4 Methylphenol	84	85	30 - 110	2	30		
4-Chloro-3-methylphenol	98	101	45 - 110	3	30		
2,2'-oxybis[1-chloropropane]	77	84	25 - 130	8	30		
4-Chloroaniline	83	89	15 - 110	8	30		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorobiphenyl	62	71	50 - 110
2-Fluorophenol (Surr)	85	85	20 - 110
Nitrobenzene-d5 (Surr)	83	88	40 - 110
Terphenyl-d14 (Surr)	94	96	50 - 135
2,4,6-Tribromophenol (Surr)	98	100	40 - 125
Phenol-d5 (Surr)	88	91	10 - 115

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-28094**
**Method: 8270C/DoD
Preparation: 3520C**

LCS Lab Sample ID: LCS 280-28094/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2032
 Date Prepared: 08/23/2010 1415

Units: ug/L

LCSD Lab Sample ID: LCSD 280-28094/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2052
 Date Prepared: 08/23/2010 1415

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acenaphthene	80.0	80.0	57.9	62.9
Acenaphthylene	80.0	80.0	59.1	64.9
Anthracene	80.0	80.0	72.5	75.7
Benzo[a]anthracene	80.0	80.0	74.7	77.1
Benzoic acid	80.0	80.0	87.1	88.9
Benzo[b]fluoranthene	80.0	80.0	75.3	84.0
Benzo[k]fluoranthene	80.0	80.0	71.1	68.8
Benzyl alcohol	80.0	80.0	77.3	79.6
Bis(2-chloroethoxy)methane	80.0	80.0	70.2	72.0
Bis(2-chloroethyl)ether	80.0	80.0	69.8	73.7
4-Bromophenyl phenyl ether	80.0	80.0	67.5	72.3
Butyl benzyl phthalate	80.0	80.0	83.6	85.4
2,4-Dimethylphenol	80.0	80.0	58.4	55.0
Dimethyl phthalate	80.0	80.0	73.4	75.0
4,6-Dinitro-2-methylphenol	80.0	80.0	54.1 J	62.4 J
2,4-Dinitrophenol	80.0	80.0	45.9 J	55.8 J
2,4-Dinitrotoluene	80.0	80.0	81.0	84.1
2,6-Dinitrotoluene	80.0	80.0	76.1	77.9
Fluoranthene	80.0	80.0	76.6	79.1
Fluorene	80.0	80.0	66.1	69.5
1,2-Diphenylhydrazine	80.9	80.9	71.1	74.6
Hexachlorobenzene	80.0	80.0	69.7	73.7
Hexachlorobutadiene	80.0	80.0	37.2	46.4
Hexachloroethane	80.0	80.0	34.8	45.8
N-Nitrosodiphenylamine	68.3	68.3	60.4	62.6
N-Nitrosodi-n-propylamine	80.0	80.0	71.8	74.4
1,4-Dichlorobenzene	80.0	80.0	42.0	50.0
2-Chloronaphthalene	80.0	80.0	50.5	57.9
2-Chlorophenol	80.0	80.0	68.2	71.2
4-Chlorophenyl phenyl ether	80.0	80.0	66.7	69.5
Chrysene	80.0	80.0	69.4	70.9
Dibenz(a,h)anthracene	80.0	80.0	75.4	77.7
Dibenzofuran	80.0	80.0	62.3	67.5
Benzo[g,h,i]perylene	80.0	80.0	71.7	74.8
Benzo[a]pyrene	80.0	80.0	65.1	67.8
Di-n-butyl phthalate	80.0	80.0	79.9	82.4
1,2-Dichlorobenzene	80.0	80.0	43.7	51.6
1,3-Dichlorobenzene	80.0	80.0	41.7	49.4
3,3'-Dichlorobenzidine	80.0	80.0	55.9	58.7
2,4-Dichlorophenol	80.0	80.0	71.8	75.5
Diethyl phthalate	80.0	80.0	73.9	75.7

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-28094**
**Method: 8270C/DoD
Preparation: 3520C**

LCS Lab Sample ID: LCS 280-28094/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2032
 Date Prepared: 08/23/2010 1415

Units: ug/L

LCSD Lab Sample ID: LCSD 280-28094/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/28/2010 2052
 Date Prepared: 08/23/2010 1415

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Indeno[1,2,3-cd]pyrene	80.0	80.0	75.3	77.6
Isophorone	80.0	80.0	73.5	74.9
2-Methylnaphthalene	80.0	80.0	46.1	55.4
2-Methylphenol	80.0	80.0	69.5	71.9
Naphthalene	80.0	80.0	45.5	54.2
2-Nitroaniline	80.0	80.0	85.8	85.7
3-Nitroaniline	80.0	80.0	77.4	82.6
4-Nitroaniline	80.0	80.0	79.4	80.4
Nitrobenzene	80.0	80.0	66.6	70.5
2-Nitrophenol	80.0	80.0	76.8	81.3
4-Nitrophenol	80.0	80.0	79.7	80.6
Pyrene	80.0	80.0	74.4	76.8
Pentachlorophenol	80.0	80.0	80.7	83.4
Phenanthrene	80.0	80.0	68.8	73.0
1,2,4-Trichlorobenzene	80.0	80.0	38.3	47.0
2,4,5-Trichlorophenol	80.0	80.0	77.7	80.2
2,4,6-Trichlorophenol	80.0	80.0	80.1	82.8
Phenol	80.0	80.0	73.4	76.0
Carbazole	80.0	80.0	72.9	76.0
N-Nitrosodimethylamine	80.0	80.0	70.0	72.1
Bis(2-ethylhexyl) phthalate	80.0	80.0	85.6	87.0
Di-n-octyl phthalate	80.0	80.0	86.1	88.3
3 & 4 Methylphenol	160	160	134	137
4-Chloro-3-methylphenol	80.0	80.0	78.5	80.8
2,2'-oxybis[1-chloropropane]	80.0	80.0	61.6	67.0
4-Chloroaniline	80.0	80.0	66.1	71.5

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26077

Method: 8330B

Preparation: 3535

Lab Sample ID: MB 280-26077/5-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1554
 Date Prepared: 08/09/2010 1435

Analysis Batch: 280-26610
 Prep Batch: 280-26077
 Units: ug/L

Instrument ID: CHHPLC_X3
 Lab File ID: X0812014.D
 Initial Weight/Volume: 500 mL
 Final Weight/Volume: 5000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

Analyte	Result	Qual	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.15	U	0.051	0.20
4-Amino-2,6-dinitrotoluene	0.15	U	0.058	0.20
2,4-Dinitrotoluene	0.15	U	0.084	0.40
2,6-Dinitrotoluene	0.15	U	0.064	0.20
o-Nitrotoluene	0.15	U	0.086	0.40
m-Nitrotoluene	0.15	U	0.083	0.40
Nitrobenzene	0.15	U	0.091	0.40
p-Nitrotoluene	0.40	U	0.20	1.0
1,3,5-Trinitrobenzene	0.40	U	0.20	1.0
1,3-Dinitrobenzene	0.15	U	0.089	0.40
HMX	0.15	U	0.088	0.40
RDX	0.15	U	0.052	0.20
Tetryl	0.15	U	0.079	0.24
2,4,6-Trinitrotoluene	0.15	U	0.072	0.40
3,5-Dinitroaniline	0.14	U	0.13	0.40
Surrogate	% Rec	Acceptance Limits		
1,2-Dinitrobenzene	115	75 - 118		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26077

Method: 8330B

Preparation: 3535

Lab Sample ID: MB 280-26077/5-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1741
 Date Prepared: 08/09/2010 1435

Analysis Batch: 280-26812
 Prep Batch: 280-26077
 Units: ug/L

Instrument ID: CHHPLC_Q
 Lab File ID: Q0813009.D
 Initial Weight/Volume: 500 mL
 Final Weight/Volume: 5000 uL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	Result	Qual	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.15	U	0.051	0.20
4-Amino-2,6-dinitrotoluene	0.317		0.058	0.20
2,4-Dinitrotoluene	0.15	U	0.084	0.40
2,6-Dinitrotoluene	0.15	U	0.064	0.20
o-Nitrotoluene	0.15	U	0.086	0.40
m-Nitrotoluene	0.15	U	0.083	0.40
Nitrobenzene	0.15	U	0.091	0.40
p-Nitrotoluene	0.40	U	0.20	1.0
1,3,5-Trinitrobenzene	0.40	U	0.20	1.0
1,3-Dinitrobenzene	0.15	U	0.089	0.40
HMX	0.15	U	0.088	0.40
RDX	0.15	U	0.052	0.20
Tetryl	0.15	U	0.079	0.24
2,4,6-Trinitrotoluene	0.15	U	0.072	0.40
3,5-Dinitroaniline	0.14	U	0.13	0.40

Surrogate	% Rec	Acceptance Limits
1,2-Dinitrobenzene	115	75 - 118

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26077

Method: 8330B

Preparation: 3535

LCS Lab Sample ID: LCS 280-26077/6-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1615
 Date Prepared: 08/09/2010 1435

Analysis Batch: 280-26610
 Prep Batch: 280-26077
 Units: ug/L

Instrument ID: CHHPLC_X3
 Lab File ID: X0812015.D
 Initial Weight/Volume: 500 mL
 Final Weight/Volume: 5000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-26077/7-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1828
 Date Prepared: 08/09/2010 1435

Analysis Batch: 280-26909
 Prep Batch: 280-26077
 Units: ug/L

Instrument ID: CHHPLC_X3
 Lab File ID: X0813009.D
 Initial Weight/Volume: 500 mL
 Final Weight/Volume: 5000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2-Amino-4,6-dinitrotoluene	109	100	50 - 155	9	30		
4-Amino-2,6-dinitrotoluene	101	91	55 - 155	10	30		
2,4-Dinitrotoluene	105	95	60 - 135	10	30		
2,6-Dinitrotoluene	98	88	60 - 135	10	30		
o-Nitrotoluene	69	60	45 - 135	13	30		
m-Nitrotoluene	91	74	50 - 130	20	30		
Nitrobenzene	80	72	50 - 140	11	30		
p-Nitrotoluene	83	71	50 - 130	16	30		
1,3,5-Trinitrobenzene	89	98	65 - 140	10	30		
1,3-Dinitrobenzene	105	97	45 - 160	8	30		
HMX	96	82	80 - 115	17	30		
RDX	97	105	50 - 160	8	30		
Tetryl	107	96	20 - 175	10	30		
2,4,6-Trinitrotoluene	108	96	50 - 145	11	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dinitrobenzene	94	106	75 - 118

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26077

Method: 8330B

Preparation: 3535

LCS Lab Sample ID: LCS 280-26077/8-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1657
 Date Prepared: 08/09/2010 1435

Analysis Batch: 280-26610
 Prep Batch: 280-26077
 Units: ug/L

Instrument ID: CHHPLC_X3
 Lab File ID: X0812017.D
 Initial Weight/Volume: 500 mL
 Final Weight/Volume: 5000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-26077/9-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1718
 Date Prepared: 08/09/2010 1435

Analysis Batch: 280-26610
 Prep Batch: 280-26077
 Units: ug/L

Instrument ID: CHHPLC_X3
 Lab File ID: X0812018.D
 Initial Weight/Volume: 500 mL
 Final Weight/Volume: 5000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
3,5-Dinitroaniline	95	98	50 - 150	4	30		Q
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dinitrobenzene	107		119	Q	75 - 118		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26077**
**Method: 8330B
Preparation: 3535**

LCS Lab Sample ID: LCS 280-26077/6-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1615
 Date Prepared: 08/09/2010 1435

Units: ug/L

LCSD Lab Sample ID: LCSD 280-26077/7-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1828
 Date Prepared: 08/09/2010 1435

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2-Amino-4,6-dinitrotoluene	2.00	2.00	2.18	2.00
4-Amino-2,6-dinitrotoluene	2.00	2.00	2.01	1.83
2,4-Dinitrotoluene	2.00	2.00	2.11	1.91
2,6-Dinitrotoluene	2.00	2.00	1.95	1.77
o-Nitrotoluene	2.00	2.00	1.38	1.20
m-Nitrotoluene	2.00	2.00	1.82	1.48
Nitrobenzene	2.00	2.00	1.61	1.44
p-Nitrotoluene	2.00	2.00	1.67	1.43
1,3,5-Trinitrobenzene	2.00	2.00	1.78	1.97
1,3-Dinitrobenzene	2.00	2.00	2.10	1.94
HMX	2.00	2.00	1.93	1.63
RDX	2.00	2.00	1.94	2.10
Tetryl	2.00	2.00	2.13	1.93
2,4,6-Trinitrotoluene	2.00	2.00	2.15	1.92

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26077**
**Method: 8330B
Preparation: 3535**

LCS Lab Sample ID: LCS 280-26077/8-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1657
 Date Prepared: 08/09/2010 1435

Units: ug/L

LCSD Lab Sample ID: LCSD 280-26077/9-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/12/2010 1718
 Date Prepared: 08/09/2010 1435

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
3,5-Dinitroaniline	2.00	2.00	1.89	1.97	Q

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26688

Method: 8330B

Preparation: 8330B

Lab Sample ID: MB 280-26688/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1648
 Date Prepared: 08/13/2010 0855

Analysis Batch: 280-27102
 Prep Batch: 280-26688
 Units: mg/Kg

Instrument ID: CHHPLC_X3
 Lab File ID: X0816009.D
 Initial Weight/Volume: 10 g
 Final Weight/Volume: 40000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

Analyte	Result	Qual	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.040	U	0.033	0.10
4-Amino-2,6-dinitrotoluene	0.040	U	0.030	0.10
2,4-Dinitrotoluene	0.040	U	0.015	0.10
2,6-Dinitrotoluene	0.040	U	0.019	0.10
2-Nitrotoluene	0.080	U	0.047	0.20
3-Nitrotoluene	0.080	U	0.064	0.20
Nitrobenzene	0.080	U	0.085	0.30
4-Nitrotoluene	0.10	U	0.036	0.20
1,3,5-Trinitrobenzene	0.040	U	0.014	0.10
1,3-Dinitrobenzene	0.040	U	0.017	0.10
HMX	0.040	U	0.023	0.10
RDX	0.080	U	0.043	0.20
Tetryl	0.080	U	0.044	0.20
2,4,6-Trinitrotoluene	0.040	U	0.031	0.10
3,5-Dinitroaniline	0.040	U	0.0090	0.10
Surrogate	% Rec	Acceptance Limits		
1,2-Dinitrobenzene	104	83 - 122		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26688

Method: 8330B

Preparation: 8330B

Lab Sample ID: MB 280-26688/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/17/2010 1644
 Date Prepared: 08/13/2010 0855

Analysis Batch: 280-27266
 Prep Batch: 280-26688
 Units: mg/Kg

Instrument ID: CHHPLC_Q
 Lab File ID: Q0817008.D
 Initial Weight/Volume: 10 g
 Final Weight/Volume: 40000 uL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	Result	Qual	DL	LOQ
2-Amino-4,6-dinitrotoluene	0.040	U	0.033	0.10
4-Amino-2,6-dinitrotoluene	0.040	U	0.030	0.10
2,4-Dinitrotoluene	0.040	U	0.015	0.10
2,6-Dinitrotoluene	0.040	U	0.019	0.10
2-Nitrotoluene	0.080	U	0.047	0.20
3-Nitrotoluene	0.080	U	0.064	0.20
Nitrobenzene	0.080	U	0.085	0.30
4-Nitrotoluene	0.10	U	0.036	0.20
1,3,5-Trinitrobenzene	0.040	U	0.014	0.10
1,3-Dinitrobenzene	0.040	U	0.017	0.10
HMX	0.040	U	0.023	0.10
RDX	0.080	U	0.043	0.20
Tetryl	0.080	U	0.044	0.20
2,4,6-Trinitrotoluene	0.040	U	0.031	0.10
3,5-Dinitroaniline	0.040	U	0.0090	0.10
Surrogate	% Rec	Acceptance Limits		
1,2-Dinitrobenzene	108	83 - 122		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Control Sample - Batch: 280-26688

Method: 8330B
Preparation: 8330BLab Sample ID: LCS 280-26688/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/16/2010 1709
Date Prepared: 08/13/2010 0855Analysis Batch: 280-27102
Prep Batch: 280-26688
Units: mg/KgInstrument ID: CHHPLC_X3
Lab File ID: X0816010.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 40000 uL
Injection Volume: 100 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2-Amino-4,6-dinitrotoluene	1.00	1.09	109	80 - 125	
4-Amino-2,6-dinitrotoluene	1.00	1.06	106	80 - 125	
2,4-Dinitrotoluene	1.00	1.01	101	80 - 125	
2,6-Dinitrotoluene	1.00	0.967	97	80 - 120	
2-Nitrotoluene	1.00	0.979	98	80 - 125	
3-Nitrotoluene	1.00	1.03	103	75 - 120	
Nitrobenzene	1.00	1.00	100	75 - 125	
4-Nitrotoluene	1.00	1.02	102	75 - 125	
1,3,5-Trinitrobenzene	1.00	1.07	107	75 - 125	
1,3-Dinitrobenzene	1.00	0.991	99	80 - 125	
HMX	1.00	0.900	90	75 - 125	
RDX	1.00	1.05	105	70 - 135	
Tetryl	1.00	1.09	109	10 - 150	
2,4,6-Trinitrotoluene	1.00	1.05	105	55 - 140	

Surrogate	% Rec	Acceptance Limits
1,2-Dinitrobenzene	104	83 - 122

Lab Control Sample - Batch: 280-26688

Method: 8330B
Preparation: 8330BLab Sample ID: LCS 280-26688/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/16/2010 1730
Date Prepared: 08/13/2010 0855Analysis Batch: 280-27102
Prep Batch: 280-26688
Units: mg/KgInstrument ID: CHHPLC_X3
Lab File ID: X0816011.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 40000 uL
Injection Volume: 100 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
3,5-Dinitroaniline	1.00	1.05	105	50 - 150	

Surrogate	% Rec	Acceptance Limits
1,2-Dinitrobenzene	105	83 - 122

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-26688**
**Method: 8330B
Preparation: 8330B**

MS Lab Sample ID: 280-6075-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/16/2010 1812
Date Prepared: 08/13/2010 0855
Date Leached: 08/10/2010 1041

Analysis Batch: 280-27102
Prep Batch: 280-26688

Instrument ID: CHHPLC_X3
Lab File ID: X0816013.D
Initial Weight/Volume: 10.10 g
Final Weight/Volume: 40000 uL
Injection Volume: 100 uL
Column ID: PRIMARY

MSD Lab Sample ID: 280-6075-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/16/2010 1833
Date Prepared: 08/13/2010 0855
Date Leached: 08/10/2010 1041

Analysis Batch: 280-27102
Prep Batch: 280-26688

Instrument ID: CHHPLC_X3
Lab File ID: X0816014.D
Initial Weight/Volume: 10.16 g
Final Weight/Volume: 40000 uL
Injection Volume: 100 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2-Amino-4,6-dinitrotoluene	111	95	66 - 131	16	30		
4-Amino-2,6-dinitrotoluene	95	81	38 - 120	16	30		
2,4-Dinitrotoluene	107	99	72 - 125	9	30		
2,6-Dinitrotoluene	110	100	67 - 130	10	30		
2-Nitrotoluene	94	84	71 - 124	13	30		
3-Nitrotoluene	98	85	69 - 122	14	30		
Nitrobenzene	103	95	76 - 122	9	30		
4-Nitrotoluene	99	84	73 - 132	18	30		
1,3,5-Trinitrobenzene	99	91	67 - 132	8	30		
1,3-Dinitrobenzene	101	92	72 - 126	11	30		
HMX	86	81	60 - 127	6	30		
RDX	92	89	52 - 124	4	30		
Tetryl	111	103	63 - 140	8	30		
2,4,6-Trinitrotoluene	103	91	66 - 125	13	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dinitrobenzene	102	93	83 - 122

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-26688

Method: 8330B

Preparation: 8330B

MS Lab Sample ID: 280-6075-2 Analysis Batch: 280-27102
 Client Matrix: Solid Prep Batch: 280-26688
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1915
 Date Prepared: 08/13/2010 0855
 Date Leached: 08/10/2010 1041

Instrument ID: CHHPLC_X3
 Lab File ID: X0816016.D
 Initial Weight/Volume: 10.00 g
 Final Weight/Volume: 40000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

MSD Lab Sample ID: 280-6075-2 Analysis Batch: 280-27102
 Client Matrix: Solid Prep Batch: 280-26688
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1936
 Date Prepared: 08/13/2010 0855
 Date Leached: 08/10/2010 1041

Instrument ID: CHHPLC_X3
 Lab File ID: X0816017.D
 Initial Weight/Volume: 10.15 g
 Final Weight/Volume: 40000 uL
 Injection Volume: 100 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
3,5-Dinitroaniline	104	99	50 - 150	6	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
1,2-Dinitrobenzene		103	106			83 - 122	

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Matrix Spike/**Matrix Spike Duplicate Recovery Report - Batch: 280-26688****Method: 8330B****Preparation: 8330B**

MS Lab Sample ID: 280-6075-1
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1812
 Date Prepared: 08/13/2010 0855
 Date Leached: 08/10/2010 1041

Units: mg/Kg

MSD Lab Sample ID: 280-6075-1
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1833
 Date Prepared: 08/13/2010 0855
 Date Leached: 08/10/2010 1041

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
2-Amino-4,6-dinitrotoluene	0.040	U	0.990	0.984	1.10	0.936
4-Amino-2,6-dinitrotoluene	0.040	U	0.990	0.984	0.936	0.799
2,4-Dinitrotoluene	0.040	U	0.990	0.984	1.06	0.970
2,6-Dinitrotoluene	0.040	U	0.990	0.984	1.09	0.980
2-Nitrotoluene	0.080	U	0.990	0.984	0.935	0.823
3-Nitrotoluene	0.080	U	0.990	0.984	0.969	0.841
Nitrobenzene	0.080	U	0.990	0.984	1.02	0.930
4-Nitrotoluene	0.10	U	0.990	0.984	0.984	0.822
1,3,5-Trinitrobenzene	0.040	U	0.990	0.984	0.976	0.900
1,3-Dinitrobenzene	0.040	U	0.990	0.984	1.00	0.901
HMX	0.040	U	0.990	0.984	0.853	0.802
RDX	0.080	U	0.990	0.984	0.908	0.873
Tetryl	0.080	U	0.990	0.984	1.10	1.02
2,4,6-Trinitrotoluene	0.040	U	0.990	0.984	1.02	0.891

Matrix Spike/**Matrix Spike Duplicate Recovery Report - Batch: 280-26688****Method: 8330B****Preparation: 8330B**

MS Lab Sample ID: 280-6075-2
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1915
 Date Prepared: 08/13/2010 0855
 Date Leached: 08/10/2010 1041

Units: mg/Kg

MSD Lab Sample ID: 280-6075-2
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1936
 Date Prepared: 08/13/2010 0855
 Date Leached: 08/10/2010 1041

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
3,5-Dinitroaniline	0.040	U	1.00	0.985	1.04	0.979

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Detection Limit Check Standard - Batch: 280-25449

Method: 6860

Preparation: N/A

Lab Sample ID: DLCK 280-25449/10

Analysis Batch: 280-25449

Instrument ID: LC_LCMS1

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: IC10H0410.d

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 08/04/2010 1507

Final Weight/Volume: 5 mL

Date Prepared: N/A

Injection Volume: 250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0493	99	70 - 130	J

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26924

Lab Sample ID: MB 280-26924/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/19/2010 0933
 Date Prepared: 08/13/2010 1935

Analysis Batch: 280-27843
 Prep Batch: 280-26924
 Units: ug/Kg

Method: 6860
 Preparation: 6860

Instrument ID: LC_LCMS1
 Lab File ID: IC10H1788.d
 Initial Weight/Volume: 10.87 g
 Final Weight/Volume: 100 mL
 Injection Volume: 250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.23	U	0.19	0.46

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26924

Method: 6860
 Preparation: 6860

LCS Lab Sample ID: LCS 280-26924/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1006
 Date Prepared: 08/13/2010 1935

Analysis Batch: 280-27843
 Prep Batch: 280-26924
 Units: ug/Kg

Instrument ID: LC_LCMS1
 Lab File ID: IC10H1789.d
 Initial Weight/Volume: 10.15 g
 Final Weight/Volume: 100 mL
 Injection Volume: 250 uL

LCSD Lab Sample ID: LCSD 280-26924/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1110
 Date Prepared: 08/13/2010 1935

Analysis Batch: 280-27843
 Prep Batch: 280-26924
 Units: ug/Kg

Instrument ID: LC_LCMS1
 Lab File ID: IC10H1790.d
 Initial Weight/Volume: 10.03 g
 Final Weight/Volume: 100 mL
 Injection Volume: 250 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Perchlorate	113	107	70 - 130	4	15		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26924**
**Method: 6860
Preparation: 6860**

LCS Lab Sample ID: LCS 280-26924/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1006
 Date Prepared: 08/13/2010 1935

Units: ug/Kg

LCSD Lab Sample ID: LCSD 280-26924/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/19/2010 1110
 Date Prepared: 08/13/2010 1935

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Perchlorate	0.493	0.499	0.555	0.535

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-26924**
**Method: 6860
Preparation: 6860**

MS Lab Sample ID: 280-6075-8
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0217
 Date Prepared: 08/13/2010 1935

Analysis Batch: 280-27344
 Prep Batch: 280-26924

Instrument ID: LC_LCMS1
 Lab File ID: IC10H1731.d
 Initial Weight/Volume: 10.61 g
 Final Weight/Volume: 100 mL
 Injection Volume: 250 uL

MSD Lab Sample ID: 280-6075-8
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0249
 Date Prepared: 08/13/2010 1935

Analysis Batch: 280-27344
 Prep Batch: 280-26924

Instrument ID: LC_LCMS1
 Lab File ID: IC10H1732.d
 Initial Weight/Volume: 10.61 g
 Final Weight/Volume: 100 mL
 Injection Volume: 250 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Perchlorate	130	136	70 - 130	4	15	J	

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-26924

Method: 6860

Preparation: 6860

MS Lab Sample ID: 280-6075-8 Units: ug/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/18/2010 0217
Date Prepared: 08/13/2010 1935

MSD Lab Sample ID: 280-6075-8
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/18/2010 0249
Date Prepared: 08/13/2010 1935

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Perchlorate	0.25	U	0.498	0.498	0.646	0.676 J

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-28013

Method: 6860
Preparation: N/ALab Sample ID: MB 280-28013/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/21/2010 2333
Date Prepared: N/AAnalysis Batch: 280-28013
Prep Batch: N/A
Units: ug/LInstrument ID: LC_LCMS1
Lab File ID: IC10H2127.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Lab Control Sample - Batch: 280-28013

Method: 6860
Preparation: N/ALab Sample ID: LCS 280-28013/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/22/2010 0004
Date Prepared: N/AAnalysis Batch: 280-28013
Prep Batch: N/A
Units: ug/LInstrument ID: LC_LCMS1
Lab File ID: IC10H2128.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0529	106	80 - 120	

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26825

Method: 6020A

Preparation: 3050B

Lab Sample ID: MB 280-26825/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0322
 Date Prepared: 08/17/2010 0700

Analysis Batch: 280-27511
 Prep Batch: 280-26825
 Units: ug/Kg

Instrument ID: MT_024
 Lab File ID: 079_BLK.D
 Initial Weight/Volume: 1 g
 Final Weight/Volume: 100 mL

Analyte	Result	Qual	DL	LOQ
Arsenic	150	U	51	600
Barium	200	U	70	250
Cadmium	25	U Q	9.4	100
Chromium	92.6	J Q	76	600
Lead	18.4	J	18	400
Selenium	250	U	130	500
Silver	60	U Q	20	100

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26825

Method: 6020A

Preparation: 3050B

LCS Lab Sample ID: LCS 280-26825/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0324
 Date Prepared: 08/17/2010 0700

Analysis Batch: 280-27511
 Prep Batch: 280-26825
 Units: ug/Kg

Instrument ID: MT_024
 Lab File ID: 080_LCS.D
 Initial Weight/Volume: 1 g
 Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 280-26825/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0327
 Date Prepared: 08/17/2010 0700

Analysis Batch: 280-27511
 Prep Batch: 280-26825
 Units: ug/Kg

Instrument ID: MT_024
 Lab File ID: 081LCSD.D
 Initial Weight/Volume: 1 g
 Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Arsenic	94	97	85 - 117	3	20		
Barium	96	97	85 - 118	1	20		
Cadmium	93	95	85 - 115	2	20	Q	Q
Chromium	95	98	84 - 121	3	20	Q	Q
Lead	98	100	85 - 118	2	20		
Selenium	98	99	77 - 122	1	20		
Silver	94	95	85 - 115	0	20	Q	Q

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26825**

**Method: 6020A
Preparation: 3050B**

LCS Lab Sample ID: LCS 280-26825/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/18/2010 0324
Date Prepared: 08/17/2010 0700

Units: ug/Kg

LCSD Lab Sample ID: LCSD 280-26825/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/18/2010 0327
Date Prepared: 08/17/2010 0700

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	20000	20000	18700		19300	
Barium	20000	20000	19300		19400	
Cadmium	20000	20000	18600	Q	19000	Q
Chromium	20000	20000	18900	Q	19500	Q
Lead	20000	20000	19600		19900	
Selenium	20000	20000	19600		19900	
Silver	20000	20000	18900	Q	19000	Q

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26838

Method: 6020A

Preparation: 3020A

Lab Sample ID: MB 280-26838/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0706
 Date Prepared: 08/16/2010 1200

Analysis Batch: 280-27507
 Prep Batch: 280-26838
 Units: ug/L

Instrument ID: MT_024
 Lab File ID: 160_BLK.D
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	DL	LOQ
Arsenic	0.60	U	0.21	5.0
Barium	0.85	U	0.29	3.0
Cadmium	0.12	U Q	0.040	1.0
Chromium	1.5	U Q	0.50	10
Lead	0.50	U	0.18	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26838

Method: 6020A

Preparation: 3020A

LCS Lab Sample ID: LCS 280-26838/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0709
 Date Prepared: 08/16/2010 1200

Analysis Batch: 280-27507
 Prep Batch: 280-26838
 Units: ug/L

Instrument ID: MT_024
 Lab File ID: 161_LCS.D
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 280-26838/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/18/2010 0712
 Date Prepared: 08/16/2010 1200

Analysis Batch: 280-27507
 Prep Batch: 280-26838
 Units: ug/L

Instrument ID: MT_024
 Lab File ID: 162LCSD.D
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Arsenic	97	100	85 - 117	3	20		
Barium	98	100	85 - 118	2	20		
Cadmium	99	100	85 - 115	1	20	Q	Q
Chromium	101	105	84 - 121	4	20	Q	Q
Lead	104	108	85 - 118	4	20		
Selenium	91	94	77 - 122	3	20		
Silver	102	103	85 - 115	1	20		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26838**

**Method: 6020A
Preparation: 3020A**

LCS Lab Sample ID: LCS 280-26838/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/18/2010 0709
Date Prepared: 08/16/2010 1200

Units: ug/L

LCSD Lab Sample ID: LCSD 280-26838/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/18/2010 0712
Date Prepared: 08/16/2010 1200

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Arsenic	40.0	40.0	38.9	40.2
Barium	40.0	40.0	39.3	40.2
Cadmium	40.0	40.0	39.4 Q	39.8 Q
Chromium	40.0	40.0	40.3 Q	42.0 Q
Lead	40.0	40.0	41.5	43.2
Selenium	40.0	40.0	36.4	37.5
Silver	40.0	40.0	40.9	41.3

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26617

Lab Sample ID: MB 280-26617/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1352
 Date Prepared: 08/12/2010 2000

Analysis Batch: 280-27041
 Prep Batch: 280-26617
 Units: ug/L

Method: 7470A
 Preparation: 7470A

Instrument ID: MT_033
 Lab File ID: 100813AA.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	DL	LOQ
Mercury	0.080	U	0.027	0.20

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 280-26617

Method: 7470A
 Preparation: 7470A

LCS Lab Sample ID: LCS 280-26617/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1354
 Date Prepared: 08/12/2010 2000

Analysis Batch: 280-27041
 Prep Batch: 280-26617
 Units: ug/L

Instrument ID: MT_033
 Lab File ID: 100813AA.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 280-26617/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1357
 Date Prepared: 08/12/2010 2000

Analysis Batch: 280-27041
 Prep Batch: 280-26617
 Units: ug/L

Instrument ID: MT_033
 Lab File ID: 100813AA.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Mercury	110	110	80 - 120	0.3	20		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-26617**
**Method: 7470A
Preparation: 7470A**

LCS Lab Sample ID: LCS 280-26617/2-A Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1354
 Date Prepared: 08/12/2010 2000

LCSD Lab Sample ID: LCSD 280-26617/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1357
 Date Prepared: 08/12/2010 2000

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	5.00	5.00	5.50	5.51

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-26617**
**Method: 7470A
Preparation: 7470A**

MS Lab Sample ID: 280-6075-6 Analysis Batch: 280-27041
 Client Matrix: Water Prep Batch: 280-26617
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1406
 Date Prepared: 08/12/2010 2000

Instrument ID: MT_033
 Lab File ID: 100813AA.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

MSD Lab Sample ID: 280-6075-6 Analysis Batch: 280-27041
 Client Matrix: Water Prep Batch: 280-26617
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1408
 Date Prepared: 08/12/2010 2000

Instrument ID: MT_033
 Lab File ID: 100813AA.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	101	96	80 - 120	6	20		

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Matrix Spike/**Matrix Spike Duplicate Recovery Report - Batch: 280-26617****Method: 7470A****Preparation: 7470A**

MS Lab Sample ID: 280-6075-6 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1406
 Date Prepared: 08/12/2010 2000

MSD Lab Sample ID: 280-6075-6
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/13/2010 1408
 Date Prepared: 08/12/2010 2000

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.035 J	5.00	5.00	5.10	4.82

Serial Dilution - Batch: 280-26617**Method: 7470A****Preparation: 7470A**

Lab Sample ID: 280-6075-6 Analysis Batch: 280-27041
 Client Matrix: Water Prep Batch: 280-26617
 Dilution: 5.0 Units: ug/L
 Date Analyzed: 08/13/2010 1404
 Date Prepared: 08/12/2010 2000

Instrument ID: MT_033
 Lab File ID: 100813AA.txt
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	0.035 J	0.160	NC	10	J D

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Method Blank - Batch: 280-26890

Lab Sample ID: MB 280-26890/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 1958
 Date Prepared: 08/16/2010 1630

Analysis Batch: 280-27196
 Prep Batch: 280-26890
 Units: ug/Kg

Method: 7471B
Preparation: 7471B

Instrument ID: MT_033
 Lab File ID: 100816AB.txt
 Initial Weight/Volume: 0.63 g
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	DL	LOQ
Mercury	7.9	U	5.3	16

Lab Control Sample - Batch: 280-26890

Lab Sample ID: LCS 280-26890/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 2000
 Date Prepared: 08/16/2010 1630

Analysis Batch: 280-27196
 Prep Batch: 280-26890
 Units: ug/Kg

Method: 7471B
Preparation: 7471B

Instrument ID: MT_033
 Lab File ID: 100816AB.txt
 Initial Weight/Volume: 0.61 g
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	410	398	97	80 - 120	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 280-26890**
Method: 7471B
Preparation: 7471B

MS Lab Sample ID: 280-6075-3
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 2013
 Date Prepared: 08/16/2010 1630

Analysis Batch: 280-27196
 Prep Batch: 280-26890

Instrument ID: MT_033
 Lab File ID: 100816AB.txt
 Initial Weight/Volume: 0.65 g
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-6075-3
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 2018
 Date Prepared: 08/16/2010 1630

Analysis Batch: 280-27196
 Prep Batch: 280-26890

Instrument ID: MT_033
 Lab File ID: 100816AB.txt
 Initial Weight/Volume: 0.60 g
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	56	49	80 - 120	1	20	J	J

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Matrix Spike/**Matrix Spike Duplicate Recovery Report - Batch: 280-26890****Method: 7471B****Preparation: 7471B**

MS Lab Sample ID: 280-6075-3 Units: ug/Kg
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 2013
 Date Prepared: 08/16/2010 1630

MSD Lab Sample ID: 280-6075-3
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 08/16/2010 2018
 Date Prepared: 08/16/2010 1630

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	620	438	474	867 J	855 J

Serial Dilution - Batch: 280-26890**Method: 7471B****Preparation: 7471B**

Lab Sample ID: 280-6075-3 Analysis Batch: 280-27196
 Client Matrix: Solid Prep Batch: 280-26890
 Dilution: 5.0 Units: ug/Kg
 Date Analyzed: 08/16/2010 2011
 Date Prepared: 08/16/2010 1630

Instrument ID: MT_033
 Lab File ID: 100816AB.txt
 Initial Weight/Volume: 0.62 g
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	620	661	6.4	10	D

DATA REPORTING QUALIFIERS

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.
GC/MS Semi VOA		
	K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	H	Sample was prepped or analyzed beyond the specified holding time
	U	Undetected at the Limit of Detection.
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.

DATA REPORTING QUALIFIERS

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Lab Section	Qualifier	Description
LCMS	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	U	Undetected at the Limit of Detection.
HPLC/IC	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Analysis Batch:280-26526					
LCS 280-26526/5	Lab Control Sample	T	Water	8260B/DoD	
MB 280-26526/4	Method Blank	T	Water	8260B/DoD	
280-6075-5	NE SUMP-	T	Water	8260B/DoD	
280-6075-5MS	Matrix Spike	T	Water	8260B/DoD	
280-6075-5MSD	Matrix Spike Duplicate	T	Water	8260B/DoD	
280-6075-6	SW SUMP-	T	Water	8260B/DoD	
280-6075-7	RINSATE	T	Water	8260B/DoD	
280-6075-9TB	TRIP BLANK	T	Water	8260B/DoD	
Prep Batch: 280-26668					
LCS 280-26668/1-A	Lab Control Sample	T	Solid	5035	
LCSD 280-26668/2-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 280-26668/3-A	Method Blank	T	Solid	5035	
280-6075-1	SS1-	T	Solid	5035	
280-6075-2	SS2-	T	Solid	5035	
280-6075-3	SS3-	T	Solid	5035	
280-6075-4	SS4-	T	Solid	5035	
280-6075-8	SS1-DUP-	T	Solid	5035	
Analysis Batch:280-26762					
LCS 280-26668/1-A	Lab Control Sample	T	Solid	8260B/DoD	280-26668
LCSD 280-26668/2-A	Lab Control Sample Duplicate	T	Solid	8260B/DoD	280-26668
MB 280-26668/3-A	Method Blank	T	Solid	8260B/DoD	280-26668
280-6075-1	SS1-	T	Solid	8260B/DoD	280-26668
280-6075-2	SS2-	T	Solid	8260B/DoD	280-26668
280-6075-3	SS3-	T	Solid	8260B/DoD	280-26668
280-6075-4	SS4-	T	Solid	8260B/DoD	280-26668
280-6075-8	SS1-DUP-	T	Solid	8260B/DoD	280-26668

Report Basis

T = Total

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 280-25954					
LCS 280-25954/2-A	Lab Control Sample	T	Water	3520C	
LCSD 280-25954/17-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 280-25954/1-A	Method Blank	T	Water	3520C	
280-6075-5	NE SUMP-	T	Water	3520C	
280-6075-6	SW SUMP-	T	Water	3520C	
280-6075-7	RINSATE	T	Water	3520C	
Prep Batch: 280-26179					
LCS 280-26179/3-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-26179/4-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-26179/1-A	Method Blank	T	Solid	3550C	
280-6075-1	SS1-	T	Solid	3550C	
280-6075-2	SS2-	T	Solid	3550C	
280-6075-3	SS3-	T	Solid	3550C	
280-6075-4	SS4-	T	Solid	3550C	
280-6075-8	SS1-DUP-	T	Solid	3550C	
Analysis Batch:280-27640					
LCS 280-26179/3-A	Lab Control Sample	T	Solid	8270C/DoD	280-26179
LCSD 280-26179/4-A	Lab Control Sample Duplicate	T	Solid	8270C/DoD	280-26179
MB 280-26179/1-A	Method Blank	T	Solid	8270C/DoD	280-26179
280-6075-1	SS1-	T	Solid	8270C/DoD	280-26179
280-6075-2	SS2-	T	Solid	8270C/DoD	280-26179
280-6075-3	SS3-	T	Solid	8270C/DoD	280-26179
280-6075-4	SS4-	T	Solid	8270C/DoD	280-26179
280-6075-8	SS1-DUP-	T	Solid	8270C/DoD	280-26179
Analysis Batch:280-27824					
LCS 280-25954/2-A	Lab Control Sample	T	Water	8270C/DoD	280-25954
LCSD 280-25954/17-A	Lab Control Sample Duplicate	T	Water	8270C/DoD	280-25954
MB 280-25954/1-A	Method Blank	T	Water	8270C/DoD	280-25954
280-6075-5	NE SUMP-	T	Water	8270C/DoD	280-25954
280-6075-6	SW SUMP-	T	Water	8270C/DoD	280-25954
280-6075-7	RINSATE	T	Water	8270C/DoD	280-25954
Prep Batch: 280-28094					
LCS 280-28094/2-A	Lab Control Sample	T	Water	3520C	
LCSD 280-28094/3-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 280-28094/1-A	Method Blank	T	Water	3520C	
280-6075-6RE	SW SUMP-	T	Water	3520C	

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:280-29378					
LCS 280-28094/2-A	Lab Control Sample	T	Water	8270C/DoD	280-28094
LCSD 280-28094/3-A	Lab Control Sample Duplicate	T	Water	8270C/DoD	280-28094
MB 280-28094/1-A	Method Blank	T	Water	8270C/DoD	280-28094
280-6075-6RE	SW SUMP-	T	Water	8270C/DoD	280-28094

Report Basis

T = Total

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 280-26617					
LCS 280-26617/2-A	Lab Control Sample	T	Water	7470A	
LCSD 280-26617/3-A	Lab Control Sample Duplicate	T	Water	7470A	
MB 280-26617/1-A	Method Blank	T	Water	7470A	
280-6075-5	NE SUMP-	T	Water	7470A	
280-6075-6	SW SUMP-	T	Water	7470A	
280-6075-6MS	Matrix Spike	T	Water	7470A	
280-6075-6MSD	Matrix Spike Duplicate	T	Water	7470A	
280-6075-7	RINSATE	T	Water	7470A	
Prep Batch: 280-26825					
LCS 280-26825/2-A	Lab Control Sample	T	Solid	3050B	
LCSD 280-26825/3-A	Lab Control Sample Duplicate	T	Solid	3050B	
MB 280-26825/1-A	Method Blank	T	Solid	3050B	
280-6075-1	SS1-	T	Solid	3050B	
280-6075-2	SS2-	T	Solid	3050B	
280-6075-3	SS3-	T	Solid	3050B	
280-6075-4	SS4-	T	Solid	3050B	
280-6075-8	SS1-DUP-	T	Solid	3050B	
Prep Batch: 280-26838					
LCS 280-26838/2-A	Lab Control Sample	T	Water	3020A	
LCSD 280-26838/3-A	Lab Control Sample Duplicate	T	Water	3020A	
MB 280-26838/1-A	Method Blank	T	Water	3020A	
280-6075-5	NE SUMP-	T	Water	3020A	
280-6075-6	SW SUMP-	T	Water	3020A	
280-6075-7	RINSATE	T	Water	3020A	
Prep Batch: 280-26890					
LCS 280-26890/2-A	Lab Control Sample	T	Solid	7471B	
MB 280-26890/1-A	Method Blank	T	Solid	7471B	
280-6075-1	SS1-	T	Solid	7471B	
280-6075-2	SS2-	T	Solid	7471B	
280-6075-3	SS3-	T	Solid	7471B	
280-6075-3MS	Matrix Spike	T	Solid	7471B	
280-6075-3MSD	Matrix Spike Duplicate	T	Solid	7471B	
280-6075-4	SS4-	T	Solid	7471B	
280-6075-8	SS1-DUP-	T	Solid	7471B	

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:280-27041					
LCS 280-26617/2-A	Lab Control Sample	T	Water	7470A	280-26617
LCSD 280-26617/3-A	Lab Control Sample Duplicate	T	Water	7470A	280-26617
MB 280-26617/1-A	Method Blank	T	Water	7470A	280-26617
280-6075-5	NE SUMP-	T	Water	7470A	280-26617
280-6075-6	SW SUMP-	T	Water	7470A	280-26617
280-6075-6MS	Matrix Spike	T	Water	7470A	280-26617
280-6075-6MSD	Matrix Spike Duplicate	T	Water	7470A	280-26617
280-6075-7	RINSATE	T	Water	7470A	280-26617
Analysis Batch:280-27196					
LCS 280-26890/2-A	Lab Control Sample	T	Solid	7471B	280-26890
MB 280-26890/1-A	Method Blank	T	Solid	7471B	280-26890
280-6075-1	SS1-	T	Solid	7471B	280-26890
280-6075-2	SS2-	T	Solid	7471B	280-26890
280-6075-3	SS3-	T	Solid	7471B	280-26890
280-6075-3MS	Matrix Spike	T	Solid	7471B	280-26890
280-6075-3MSD	Matrix Spike Duplicate	T	Solid	7471B	280-26890
280-6075-4	SS4-	T	Solid	7471B	280-26890
280-6075-8	SS1-DUP-	T	Solid	7471B	280-26890
Analysis Batch:280-27507					
LCS 280-26838/2-A	Lab Control Sample	T	Water	6020A	280-26838
LCSD 280-26838/3-A	Lab Control Sample Duplicate	T	Water	6020A	280-26838
MB 280-26838/1-A	Method Blank	T	Water	6020A	280-26838
280-6075-5	NE SUMP-	T	Water	6020A	280-26838
280-6075-6	SW SUMP-	T	Water	6020A	280-26838
280-6075-7	RINSATE	T	Water	6020A	280-26838
Analysis Batch:280-27511					
LCS 280-26825/2-A	Lab Control Sample	T	Solid	6020A	280-26825
LCSD 280-26825/3-A	Lab Control Sample Duplicate	T	Solid	6020A	280-26825
MB 280-26825/1-A	Method Blank	T	Solid	6020A	280-26825
280-6075-1	SS1-	T	Solid	6020A	280-26825
280-6075-2	SS2-	T	Solid	6020A	280-26825
280-6075-3	SS3-	T	Solid	6020A	280-26825
280-6075-4	SS4-	T	Solid	6020A	280-26825
280-6075-8	SS1-DUP-	T	Solid	6020A	280-26825

Report Basis

T = Total

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-25449					
DLCK 280-25449/10	Detection Limit Check Standard	T	Solid	6860	
Prep Batch: 280-26924					
LCS 280-26924/2-A	Lab Control Sample	T	Solid	6860	
LCSD 280-26924/3-A	Lab Control Sample Duplicate	T	Solid	6860	
MB 280-26924/1-A	Method Blank	T	Solid	6860	
280-6075-1	SS1-	T	Solid	6860	
280-6075-2	SS2-	T	Solid	6860	
280-6075-3	SS3-	T	Solid	6860	
280-6075-4	SS4-	T	Solid	6860	
280-6075-8	SS1-DUP-	T	Solid	6860	
280-6075-8MS	Matrix Spike	T	Solid	6860	
280-6075-8MSD	Matrix Spike Duplicate	T	Solid	6860	
Analysis Batch:280-27344					
280-6075-1	SS1-	T	Solid	6860	280-26924
280-6075-2	SS2-	T	Solid	6860	280-26924
280-6075-3	SS3-	T	Solid	6860	280-26924
280-6075-4	SS4-	T	Solid	6860	280-26924
280-6075-8	SS1-DUP-	T	Solid	6860	280-26924
280-6075-8MS	Matrix Spike	T	Solid	6860	280-26924
280-6075-8MSD	Matrix Spike Duplicate	T	Solid	6860	280-26924
Analysis Batch:280-27843					
LCS 280-26924/2-A	Lab Control Sample	T	Solid	6860	280-26924
LCSD 280-26924/3-A	Lab Control Sample Duplicate	T	Solid	6860	280-26924
MB 280-26924/1-A	Method Blank	T	Solid	6860	280-26924
Analysis Batch:280-28013					
LCS 280-28013/18	Lab Control Sample	T	Water	6860	
MB 280-28013/17	Method Blank	T	Water	6860	
280-6075-5	NE SUMP-	T	Water	6860	
280-6075-6	SW SUMP-	T	Water	6860	
280-6075-7	RINSATE	T	Water	6860	

Report Basis

T = Total

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-25935					
280-6075-1	SS1-	T	Solid	Moisture	
280-6075-2	SS2-	T	Solid	Moisture	
280-6075-3	SS3-	T	Solid	Moisture	
280-6075-4	SS4-	T	Solid	Moisture	
280-6075-8	SS1-DUP-	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
HPLC/IC					
Prep Batch: 280-26077					
LCS 280-26077/6-A	Lab Control Sample	T	Water	3535	
LCS 280-26077/8-A	Lab Control Sample	T	Water	3535	
LCSD 280-26077/7-A	Lab Control Sample Duplicate	T	Water	3535	
LCSD 280-26077/9-A	Lab Control Sample Duplicate	T	Water	3535	
MB 280-26077/5-A	Method Blank	T	Water	3535	
280-6075-5	NE SUMP-	T	Water	3535	
280-6075-6	SW SUMP-	T	Water	3535	
280-6075-7	RINSATE	T	Water	3535	
Prep Batch: 280-26212					
280-6075-1	SS1-	T	Solid	Increm, Prep	
280-6075-1MS	Matrix Spike	T	Solid	Increm, Prep	
280-6075-1MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-6075-2	SS2-	T	Solid	Increm, Prep	
280-6075-2MS	Matrix Spike	T	Solid	Increm, Prep	
280-6075-2MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-6075-3	SS3-	T	Solid	Increm, Prep	
280-6075-4	SS4-	T	Solid	Increm, Prep	
280-6075-8	SS1-DUP-	T	Solid	Increm, Prep	
Analysis Batch:280-26610					
LCS 280-26077/6-A	Lab Control Sample	T	Water	8330B	280-26077
LCS 280-26077/8-A	Lab Control Sample	T	Water	8330B	280-26077
LCSD 280-26077/9-A	Lab Control Sample Duplicate	T	Water	8330B	280-26077
MB 280-26077/5-A	Method Blank	T	Water	8330B	280-26077
280-6075-5	NE SUMP-	T	Water	8330B	280-26077
280-6075-6	SW SUMP-	T	Water	8330B	280-26077
280-6075-7	RINSATE	T	Water	8330B	280-26077
Prep Batch: 280-26688					
LCS 280-26688/2-A	Lab Control Sample	T	Solid	8330B	
LCS 280-26688/3-A	Lab Control Sample	T	Solid	8330B	
MB 280-26688/1-A	Method Blank	T	Solid	8330B	
280-6075-1	SS1-	T	Solid	8330B	280-26212
280-6075-1MS	Matrix Spike	T	Solid	8330B	280-26212
280-6075-1MSD	Matrix Spike Duplicate	T	Solid	8330B	280-26212
280-6075-2	SS2-	T	Solid	8330B	280-26212
280-6075-2MS	Matrix Spike	T	Solid	8330B	280-26212
280-6075-2MSD	Matrix Spike Duplicate	T	Solid	8330B	280-26212
280-6075-3	SS3-	T	Solid	8330B	280-26212
280-6075-4	SS4-	T	Solid	8330B	280-26212
280-6075-8	SS1-DUP-	T	Solid	8330B	280-26212

Quality Control Results

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
HPLC/IC					
Analysis Batch:280-26812					
MB 280-26077/5-A	Method Blank	T	Water	8330B	280-26077
280-6075-5	NE SUMP-	T	Water	8330B	280-26077
280-6075-6	SW SUMP-	T	Water	8330B	280-26077
280-6075-7	RINSATE	T	Water	8330B	280-26077
Analysis Batch:280-26909					
LCSD 280-26077/7-A	Lab Control Sample Duplicate	T	Water	8330B	280-26077
Analysis Batch:280-27102					
LCS 280-26688/2-A	Lab Control Sample	T	Solid	8330B	280-26688
LCS 280-26688/3-A	Lab Control Sample	T	Solid	8330B	280-26688
MB 280-26688/1-A	Method Blank	T	Solid	8330B	280-26688
280-6075-1	SS1-	T	Solid	8330B	280-26688
280-6075-1MS	Matrix Spike	T	Solid	8330B	280-26688
280-6075-1MSD	Matrix Spike Duplicate	T	Solid	8330B	280-26688
280-6075-2	SS2-	T	Solid	8330B	280-26688
280-6075-2MS	Matrix Spike	T	Solid	8330B	280-26688
280-6075-2MSD	Matrix Spike Duplicate	T	Solid	8330B	280-26688
280-6075-3	SS3-	T	Solid	8330B	280-26688
280-6075-4	SS4-	T	Solid	8330B	280-26688
280-6075-8	SS1-DUP-	T	Solid	8330B	280-26688
Analysis Batch:280-27266					
MB 280-26688/1-A	Method Blank	T	Solid	8330B	280-26688
280-6075-2	SS2-	T	Solid	8330B	280-26688
280-6075-8	SS1-DUP-	T	Solid	8330B	280-26688

Report Basis

T = Total

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: 280-6075-1

Client ID: SS1-

Sample Date/Time: 08/02/2010 09:45

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-6075-E-1-A		280-26762	280-26668	08/02/2010 09:45	1	TAL DEN	JR
A:8260B/DoD	280-6075-E-1-A		280-26762	280-26668	08/12/2010 14:09	1	TAL DEN	JR
P:3550C	280-6075-B-1-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	280-6075-B-1-A		280-27640	280-26179	08/17/2010 21:42	1	TAL DEN	MGH
P:8330B	280-6075-A-1-B		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-A-1-B		280-27102	280-26688	08/16/2010 17:51	1	TAL DEN	HKF
P:6860	280-6075-D-1-A		280-27344	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	280-6075-D-1-A		280-27344	280-26924	08/17/2010 23:40	1	TAL DEN	JCB
P:3050B	280-6075-A-1-E		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	280-6075-A-1-E		280-27511	280-26825	08/18/2010 03:30	1	TAL DEN	TEL
P:7471B	280-6075-A-1-F		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	280-6075-A-1-F		280-27196	280-26890	08/16/2010 20:02	1	TAL DEN	KS
A:Moisture	280-6075-B-1		280-25935		08/07/2010 11:20	1	TAL DEN	SL

Lab ID: 280-6075-1 MS

Client ID: SS1-

Sample Date/Time: 08/02/2010 09:45

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-6075-A-1-C MS		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-A-1-C MS		280-27102	280-26688	08/16/2010 18:12	1	TAL DEN	HKF

Lab ID: 280-6075-1 MSD

Client ID: SS1-

Sample Date/Time: 08/02/2010 09:45

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-6075-A-1-D MSD		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-A-1-D MSD		280-27102	280-26688	08/16/2010 18:33	1	TAL DEN	HKF

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: 280-6075-2

Client ID: SS2-

Sample Date/Time: 08/02/2010 10:10

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-6075-E-2-A		280-26762	280-26668	08/02/2010 10:10	1	TAL DEN	JR
A:8260B/DoD	280-6075-E-2-A		280-26762	280-26668	08/12/2010 14:32	1	TAL DEN	JR
P:3550C	280-6075-A-2-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	280-6075-A-2-A		280-27640	280-26179	08/17/2010 22:01	1	TAL DEN	MGH
P:8330B	280-6075-D-2-B		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-D-2-B		280-27102	280-26688	08/16/2010 18:54	1	TAL DEN	HKF
P:8330B	280-6075-D-2-B		280-27266	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-D-2-B		280-27266	280-26688	08/17/2010 17:16	1	TAL DEN	HKF
P:6860	280-6075-B-2-A		280-27344	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	280-6075-B-2-A		280-27344	280-26924	08/18/2010 00:12	1	TAL DEN	JCB
P:3050B	280-6075-A-2-B		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	280-6075-A-2-B		280-27511	280-26825	08/18/2010 03:33	1	TAL DEN	TEL
P:7471B	280-6075-A-2-C		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	280-6075-A-2-C		280-27196	280-26890	08/16/2010 20:05	1	TAL DEN	KS
A:Moisture	280-6075-A-2		280-25935		08/07/2010 11:20	1	TAL DEN	SL

Lab ID: 280-6075-2 MS

Client ID: SS2-

Sample Date/Time: 08/02/2010 10:10

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-6075-D-2-C MS		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-D-2-C MS		280-27102	280-26688	08/16/2010 19:15	1	TAL DEN	HKF

Lab ID: 280-6075-2 MSD

Client ID: SS2-

Sample Date/Time: 08/02/2010 10:10

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-6075-D-2-D MSD		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-D-2-D MSD		280-27102	280-26688	08/16/2010 19:36	1	TAL DEN	HKF

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: 280-6075-3

Client ID: SS3-

Sample Date/Time: 08/02/2010 10:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-6075-E-3-A		280-26762	280-26668	08/02/2010 10:30	1	TAL DEN	JR
A:8260B/DoD	280-6075-E-3-A		280-26762	280-26668	08/12/2010 14:55	1	TAL DEN	JR
P:3550C	280-6075-B-3-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	280-6075-B-3-A		280-27640	280-26179	08/17/2010 22:19	1	TAL DEN	MGH
P:8330B	280-6075-A-3-B		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-A-3-B		280-27102	280-26688	08/16/2010 19:57	1	TAL DEN	HKF
P:6860	280-6075-B-3-B		280-27344	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	280-6075-B-3-B		280-27344	280-26924	08/18/2010 00:43	1	TAL DEN	JCB
P:3050B	280-6075-A-3-C		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	280-6075-A-3-C		280-27511	280-26825	08/18/2010 03:36	1	TAL DEN	TEL
P:7471B	280-6075-A-3-D		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	280-6075-A-3-D		280-27196	280-26890	08/16/2010 20:07	1	TAL DEN	KS
A:Moisture	280-6075-C-3		280-25935		08/07/2010 11:20	1	TAL DEN	SL

Lab ID: 280-6075-3 MS

Client ID: SS3-

Sample Date/Time: 08/02/2010 10:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471B	280-6075-A-3-E MS		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	280-6075-A-3-E MS		280-27196	280-26890	08/16/2010 20:13	1	TAL DEN	KS

Lab ID: 280-6075-3 MSD

Client ID: SS3-

Sample Date/Time: 08/02/2010 10:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471B	280-6075-A-3-F MSD		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	280-6075-A-3-F MSD		280-27196	280-26890	08/16/2010 20:18	1	TAL DEN	KS

Lab ID: 280-6075-3 SD

Client ID: SS3-

Sample Date/Time: 08/02/2010 10:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471B	280-6075-A-3-D SD		280-27196	280-26890	08/16/2010 16:30	5	TAL DEN	KS
	^5							
A:7471B	280-6075-A-3-D SD		280-27196	280-26890	08/16/2010 20:11	5	TAL DEN	KS
	^5							

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: 280-6075-4

Client ID: SS4-

Sample Date/Time: 08/02/2010 10:45

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-6075-E-4-A		280-26762	280-26668	08/02/2010 10:45	1	TAL DEN	JR
A:8260B/DoD	280-6075-E-4-A		280-26762	280-26668	08/12/2010 15:18	1	TAL DEN	JR
P:3550C	280-6075-A-4-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	280-6075-A-4-A		280-27640	280-26179	08/17/2010 22:38	1	TAL DEN	MGH
P:8330B	280-6075-B-4-B		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-B-4-B		280-27102	280-26688	08/16/2010 20:18	1	TAL DEN	HKF
P:6860	280-6075-A-4-D		280-27344	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	280-6075-A-4-D		280-27344	280-26924	08/18/2010 01:15	1	TAL DEN	JCB
P:3050B	280-6075-A-4-B		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	280-6075-A-4-B		280-27511	280-26825	08/18/2010 03:38	1	TAL DEN	TEL
P:7471B	280-6075-A-4-C		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	280-6075-A-4-C		280-27196	280-26890	08/16/2010 20:26	1	TAL DEN	KS
A:Moisture	280-6075-A-4		280-25935		08/07/2010 11:20	1	TAL DEN	SL

Lab ID: 280-6075-5

Client ID: NE SUMP-

Sample Date/Time: 08/02/2010 08:00

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-6075-H-5		280-26526		08/11/2010 11:36	1	TAL DEN	GPM
A:8260B/DoD	280-6075-H-5		280-26526		08/11/2010 11:36	1	TAL DEN	GPM
P:3520C	280-6075-A-5-C		280-27824	280-25954	08/07/2010 16:12	1	TAL DEN	TJA
A:8270C/DoD	280-6075-A-5-C		280-27824	280-25954	08/19/2010 19:57	1	TAL DEN	MGH
P:3535	280-6075-B-5-A		280-26610	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	280-6075-B-5-A		280-26610	280-26077	08/12/2010 18:00	1	TAL DEN	HKF
P:3535	280-6075-B-5-A		280-26812	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	280-6075-B-5-A		280-26812	280-26077	08/13/2010 18:45	1	TAL DEN	HKF
A:6860	280-6075-E-5		280-28013		08/22/2010 08:27	1	TAL DEN	JCB
P:3020A	280-6075-D-5-A		280-27507	280-26838	08/16/2010 12:00	1	TAL DEN	JW
A:6020A	280-6075-D-5-A		280-27507	280-26838	08/18/2010 07:14	1	TAL DEN	TEL
P:7470A	280-6075-A-5-D		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	280-6075-A-5-D		280-27041	280-26617	08/13/2010 13:59	1	TAL DEN	KS

Lab ID: 280-6075-5 MS

Client ID: NE SUMP-

Sample Date/Time: 08/02/2010 08:00

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-6075-F-5 MS		280-26526		08/11/2010 11:57	1	TAL DEN	GPM
A:8260B/DoD	280-6075-F-5 MS		280-26526		08/11/2010 11:57	1	TAL DEN	GPM

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: 280-6075-5 MSD

Client ID: NE SUMP-

Sample Date/Time: 08/02/2010 08:00

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-6075-F-5 MSD		280-26526		08/11/2010 12:19	1	TAL DEN	GPM
A:8260B/DoD	280-6075-F-5 MSD		280-26526		08/11/2010 12:19	1	TAL DEN	GPM

Lab ID: 280-6075-6

Client ID: SW SUMP-

Sample Date/Time: 08/02/2010 08:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-6075-H-6		280-26526		08/11/2010 13:06	1	TAL DEN	GPM
A:8260B/DoD	280-6075-H-6		280-26526		08/11/2010 13:06	1	TAL DEN	GPM
P:3520C	280-6075-A-6-C		280-27824	280-25954	08/07/2010 16:12	1	TAL DEN	TJA
A:8270C/DoD	280-6075-A-6-C		280-27824	280-25954	08/19/2010 20:16	1	TAL DEN	MGH
P:3520C	280-6075-B-6-A	RE	280-29378	280-28094	08/23/2010 14:15	1	TAL DEN	AMB
A:8270C/DoD	280-6075-B-6-A	RE	280-29378	280-28094	08/28/2010 21:53	1	TAL DEN	DCK
P:3535	280-6075-D-6-A		280-26610	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	280-6075-D-6-A		280-26610	280-26077	08/12/2010 18:21	1	TAL DEN	HKF
P:3535	280-6075-D-6-A		280-26812	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	280-6075-D-6-A		280-26812	280-26077	08/13/2010 19:17	1	TAL DEN	HKF
A:6860	280-6075-F-6		280-28013		08/22/2010 08:58	1	TAL DEN	JCB
P:3020A	280-6075-E-6-A		280-27507	280-26838	08/16/2010 12:00	1	TAL DEN	JW
A:6020A	280-6075-E-6-A		280-27507	280-26838	08/18/2010 07:17	1	TAL DEN	TEL
P:7470A	280-6075-A-6-D		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	280-6075-A-6-D		280-27041	280-26617	08/13/2010 14:01	1	TAL DEN	KS

Lab ID: 280-6075-6 MS

Client ID: SW SUMP-

Sample Date/Time: 08/02/2010 08:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	280-6075-A-6-E MS		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	280-6075-A-6-E MS		280-27041	280-26617	08/13/2010 14:06	1	TAL DEN	KS

Lab ID: 280-6075-6 MSD

Client ID: SW SUMP-

Sample Date/Time: 08/02/2010 08:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	280-6075-A-6-F MSD		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	280-6075-A-6-F MSD		280-27041	280-26617	08/13/2010 14:08	1	TAL DEN	KS

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: 280-6075-6 SD

Client ID: SW SUMP-

Sample Date/Time: 08/02/2010 08:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	280-6075-A-6-D SD		280-27041	280-26617	08/12/2010 20:00	5	TAL DEN	KS
	^5							
A:7470A	280-6075-A-6-D SD		280-27041	280-26617	08/13/2010 14:04	5	TAL DEN	KS
	^5							

Lab ID: 280-6075-7

Client ID: RINSATE

Sample Date/Time: 08/02/2010 11:45

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-6075-H-7		280-26526		08/11/2010 13:27	1	TAL DEN	GPM
A:8260B/DoD	280-6075-H-7		280-26526		08/11/2010 13:27	1	TAL DEN	GPM
P:3520C	280-6075-A-7-C		280-27824	280-25954	08/07/2010 16:12	1	TAL DEN	TJA
A:8270C/DoD	280-6075-A-7-C		280-27824	280-25954	08/19/2010 20:34	1	TAL DEN	MGH
P:3535	280-6075-B-7-A		280-26610	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	280-6075-B-7-A		280-26610	280-26077	08/12/2010 18:42	1	TAL DEN	HKF
P:3535	280-6075-B-7-A		280-26812	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	280-6075-B-7-A		280-26812	280-26077	08/13/2010 19:49	1	TAL DEN	HKF
A:6860	280-6075-E-7		280-28013		08/22/2010 09:29	1	TAL DEN	JCB
P:3020A	280-6075-D-7-A		280-27507	280-26838	08/16/2010 12:00	1	TAL DEN	JW
A:6020A	280-6075-D-7-A		280-27507	280-26838	08/18/2010 07:20	1	TAL DEN	TEL
P:7470A	280-6075-A-7-D		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	280-6075-A-7-D		280-27041	280-26617	08/13/2010 14:11	1	TAL DEN	KS

Lab ID: 280-6075-8

Client ID: SS1-DUP-

Sample Date/Time: 08/02/2010 11:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-6075-E-8-A		280-26762	280-26668	08/02/2010 11:30	1	TAL DEN	JR
A:8260B/DoD	280-6075-E-8-A		280-26762	280-26668	08/12/2010 15:42	1	TAL DEN	JR
P:3550C	280-6075-C-8-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	280-6075-C-8-A		280-27640	280-26179	08/17/2010 22:56	1	TAL DEN	MGH
P:8330B	280-6075-D-8-B		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-D-8-B		280-27102	280-26688	08/16/2010 20:39	1	TAL DEN	HKF
P:8330B	280-6075-D-8-B		280-27266	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	280-6075-D-8-B		280-27266	280-26688	08/17/2010 17:48	1	TAL DEN	HKF
P:6860	280-6075-A-8-C		280-27344	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	280-6075-A-8-C		280-27344	280-26924	08/18/2010 01:46	1	TAL DEN	JCB
P:3050B	280-6075-A-8-A		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	280-6075-A-8-A		280-27511	280-26825	08/18/2010 03:41	1	TAL DEN	TEL
P:7471B	280-6075-A-8-B		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	280-6075-A-8-B		280-27196	280-26890	08/16/2010 20:29	1	TAL DEN	KS
A:Moisture	280-6075-D-8		280-25935		08/07/2010 11:20	1	TAL DEN	SL

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: 280-6075-8 MS

Client ID: SS1-DUP-

Sample Date/Time: 08/02/2010 11:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:6860	280-6075-A-8-D MS		280-27344	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	280-6075-A-8-D MS		280-27344	280-26924	08/18/2010 02:17	1	TAL DEN	JCB

Lab ID: 280-6075-8 MSD

Client ID: SS1-DUP-

Sample Date/Time: 08/02/2010 11:30

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:6860	280-6075-A-8-E MSD		280-27344	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	280-6075-A-8-E MSD		280-27344	280-26924	08/18/2010 02:49	1	TAL DEN	JCB

Lab ID: 280-6075-9

Client ID: TRIP BLANK

Sample Date/Time: 08/02/2010 00:00

Received Date/Time: 08/06/2010 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-6075-B-9		280-26526		08/11/2010 13:49	1	TAL DEN	GPM
A:8260B/DoD	280-6075-B-9		280-26526		08/11/2010 13:49	1	TAL DEN	GPM

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-26526/4		280-26526		08/11/2010 10:27	1	TAL DEN	GPM
A:8260B/DoD	MB 280-26526/4		280-26526		08/11/2010 10:27	1	TAL DEN	GPM
P:5035	MB 280-26668/3-A		280-26762	280-26668	08/12/2010 06:00	1	TAL DEN	JR
A:8260B/DoD	MB 280-26668/3-A		280-26762	280-26668	08/12/2010 13:19	1	TAL DEN	JR
P:3550C	MB 280-26179/1-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	MB 280-26179/1-A		280-27640	280-26179	08/17/2010 18:19	1	TAL DEN	MGH
P:3520C	MB 280-25954/1-A		280-27824	280-25954	08/07/2010 16:12	1	TAL DEN	TJA
A:8270C/DoD	MB 280-25954/1-A		280-27824	280-25954	08/19/2010 14:04	1	TAL DEN	MGH
P:3520C	MB 280-28094/1-A		280-29378	280-28094	08/23/2010 14:15	1	TAL DEN	AMB
A:8270C/DoD	MB 280-28094/1-A		280-29378	280-28094	08/28/2010 20:11	1	TAL DEN	DCK
P:3535	MB 280-26077/5-A		280-26610	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	MB 280-26077/5-A		280-26610	280-26077	08/12/2010 15:54	1	TAL DEN	HKF
P:3535	MB 280-26077/5-A		280-26812	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	MB 280-26077/5-A		280-26812	280-26077	08/13/2010 17:41	1	TAL DEN	HKF
P:8330B	MB 280-26688/1-A		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	MB 280-26688/1-A		280-27102	280-26688	08/16/2010 16:48	1	TAL DEN	HKF
P:8330B	MB 280-26688/1-A		280-27266	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	MB 280-26688/1-A		280-27266	280-26688	08/17/2010 16:44	1	TAL DEN	HKF
P:6860	MB 280-26924/1-A		280-27843	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	MB 280-26924/1-A		280-27843	280-26924	08/19/2010 09:33	1	TAL DEN	JCB
A:6860	MB 280-28013/17		280-28013		08/21/2010 23:33	1	TAL DEN	JCB
P:3050B	MB 280-26825/1-A		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	MB 280-26825/1-A		280-27511	280-26825	08/18/2010 03:22	1	TAL DEN	TEL
P:3020A	MB 280-26838/1-A		280-27507	280-26838	08/16/2010 12:00	1	TAL DEN	JW
A:6020A	MB 280-26838/1-A		280-27507	280-26838	08/18/2010 07:06	1	TAL DEN	TEL
P:7470A	MB 280-26617/1-A		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	MB 280-26617/1-A		280-27041	280-26617	08/13/2010 13:52	1	TAL DEN	KS
P:7471B	MB 280-26890/1-A		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	MB 280-26890/1-A		280-27196	280-26890	08/16/2010 19:58	1	TAL DEN	KS

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-26526/5		280-26526		08/11/2010 10:48	1	TAL DEN	GPM
A:8260B/DoD	LCS 280-26526/5		280-26526		08/11/2010 10:48	1	TAL DEN	GPM
P:5035	LCS 280-26668/1-A		280-26762	280-26668	08/12/2010 06:00	1	TAL DEN	JR
A:8260B/DoD	LCS 280-26668/1-A		280-26762	280-26668	08/12/2010 12:32	1	TAL DEN	JR
P:3550C	LCS 280-26179/3-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	LCS 280-26179/3-A		280-27640	280-26179	08/17/2010 13:47	1	TAL DEN	MGH
P:3520C	LCS 280-25954/2-A		280-27824	280-25954	08/07/2010 16:12	1	TAL DEN	TJA
A:8270C/DoD	LCS 280-25954/2-A		280-27824	280-25954	08/19/2010 11:46	1	TAL DEN	MGH
P:3520C	LCS 280-28094/2-A		280-29378	280-28094	08/23/2010 14:15	1	TAL DEN	AMB
A:8270C/DoD	LCS 280-28094/2-A		280-29378	280-28094	08/28/2010 20:32	1	TAL DEN	DCK
P:3535	LCS 280-26077/6-A		280-26610	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	LCS 280-26077/6-A		280-26610	280-26077	08/12/2010 16:15	1	TAL DEN	HKF
P:3535	LCS 280-26077/8-A		280-26610	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	LCS 280-26077/8-A		280-26610	280-26077	08/12/2010 16:57	1	TAL DEN	HKF
P:8330B	LCS 280-26688/2-A		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	LCS 280-26688/2-A		280-27102	280-26688	08/16/2010 17:09	1	TAL DEN	HKF
P:8330B	LCS 280-26688/3-A		280-27102	280-26688	08/13/2010 08:55	1	TAL DEN	KJH
A:8330B	LCS 280-26688/3-A		280-27102	280-26688	08/16/2010 17:30	1	TAL DEN	HKF
P:6860	LCS 280-26924/2-A		280-27843	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	LCS 280-26924/2-A		280-27843	280-26924	08/19/2010 10:06	1	TAL DEN	JCB
A:6860	LCS 280-28013/18		280-28013		08/22/2010 00:04	1	TAL DEN	JCB
P:3050B	LCS 280-26825/2-A		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	LCS 280-26825/2-A		280-27511	280-26825	08/18/2010 03:24	1	TAL DEN	TEL
P:3020A	LCS 280-26838/2-A		280-27507	280-26838	08/16/2010 12:00	1	TAL DEN	JW
A:6020A	LCS 280-26838/2-A		280-27507	280-26838	08/18/2010 07:09	1	TAL DEN	TEL
P:7470A	LCS 280-26617/2-A		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	LCS 280-26617/2-A		280-27041	280-26617	08/13/2010 13:54	1	TAL DEN	KS
P:7471B	LCS 280-26890/2-A		280-27196	280-26890	08/16/2010 16:30	1	TAL DEN	KS
A:7471B	LCS 280-26890/2-A		280-27196	280-26890	08/16/2010 20:00	1	TAL DEN	KS

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	LCSD 280-26668/2-A		280-26762	280-26668	08/12/2010 06:00	1	TAL DEN	JR
A:8260B/DoD	LCSD 280-26668/2-A		280-26762	280-26668	08/12/2010 12:55	1	TAL DEN	JR
P:3550C	LCSD 280-26179/4-A		280-27640	280-26179	08/10/2010 14:30	1	TAL DEN	ASJ
A:8270C/DoD	LCSD 280-26179/4-A		280-27640	280-26179	08/17/2010 14:06	1	TAL DEN	MGH
P:3520C	LCSD 280-25954/17-A		280-27824	280-25954	08/07/2010 16:12	1	TAL DEN	TJA
A:8270C/DoD	LCSD 280-25954/17-A		280-27824	280-25954	08/19/2010 12:04	1	TAL DEN	MGH
P:3520C	LCSD 280-28094/3-A		280-29378	280-28094	08/23/2010 14:15	1	TAL DEN	AMB
A:8270C/DoD	LCSD 280-28094/3-A		280-29378	280-28094	08/28/2010 20:52	1	TAL DEN	DCK
P:3535	LCSD 280-26077/9-A		280-26610	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	LCSD 280-26077/9-A		280-26610	280-26077	08/12/2010 17:18	1	TAL DEN	HKF
P:3535	LCSD 280-26077/7-A		280-26909	280-26077	08/09/2010 14:35	1	TAL DEN	ACF
A:8330B	LCSD 280-26077/7-A		280-26909	280-26077	08/13/2010 18:28	1	TAL DEN	HKF
P:6860	LCSD 280-26924/3-A		280-27843	280-26924	08/13/2010 19:35	1	TAL DEN	kv
A:6860	LCSD 280-26924/3-A		280-27843	280-26924	08/19/2010 11:10	1	TAL DEN	JCB
P:3050B	LCSD 280-26825/3-A		280-27511	280-26825	08/17/2010 07:00	1	TAL DEN	KMN
A:6020A	LCSD 280-26825/3-A		280-27511	280-26825	08/18/2010 03:27	1	TAL DEN	TEL
P:3020A	LCSD 280-26838/3-A		280-27507	280-26838	08/16/2010 12:00	1	TAL DEN	JW
A:6020A	LCSD 280-26838/3-A		280-27507	280-26838	08/18/2010 07:12	1	TAL DEN	TEL
P:7470A	LCSD 280-26617/3-A		280-27041	280-26617	08/12/2010 20:00	1	TAL DEN	KS
A:7470A	LCSD 280-26617/3-A		280-27041	280-26617	08/13/2010 13:57	1	TAL DEN	KS

Lab ID: DLCK

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:6860	DLCK 280-25449/10		280-25449		08/04/2010 15:07	1	TAL DEN	JCB

Lab References:

TAL DEN = TestAmerica Denver

Method 8260B DOD

Volatile Organic Compounds (GC/MS)
by Method 8260B/DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low
GC Column (1): DB-624 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SS1-	280-6075-1	91	79	106	114
SS2-	280-6075-2	92	79	101	107
SS3-	280-6075-3	91	78	100	106
SS4-	280-6075-4	85	78	107	109
SS1-DUP-	280-6075-8	91	78	99	102
	MB 280-26668/3-A	91	80	104	96
	LCS 280-26668/1-A	94	81	108	95
	LCSD 280-26668/2-A	89	79	97	95

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	71-126
DCA = 1,2-Dichloroethane-d4 (Surr)	61-129
TOL = Toluene-d8 (Surr)	85-115
BFB = 4-Bromofluorobenzene (Surr)	85-120

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): DB-624 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
NE SUMP-	280-6075-5	94	90	99	97
SW SUMP-	280-6075-6	104	98	110	107
RINSATE	280-6075-7	109	105	112	108
TRIP BLANK	280-6075-9	110	108	113	109
	MB 280-26526/4	108	104	110	109
	LCS 280-26526/5	103	104	116	104
NE SUMP- MS	280-6075-5 MS	100	99	116	99
NE SUMP- MSD	280-6075-5 MSD	109	109	120	106

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: H6939.D
 Lab ID: LCS 280-26526/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.30	106	80-130	
1,1,1-Trichloroethane	5.00	4.79	96	65-130	
1,2,3-Trichloropropane	5.00	4.95	99	75-125	
1,2,3-Trichlorobenzene	5.00	5.21	104	55-140	
1,1-Dichloroethane	5.00	4.93	99	70-135	
1,2,4-Trichlorobenzene	5.00	5.39	108	65-135	
1,2-Dibromo-3-Chloropropane	5.00	4.95 J	99	50-130	
1,1-Dichloropropene	5.00	5.20	104	75-130	
1,1-Dichloroethene	5.00	5.14	103	70-130	
1,1,2-Trichloroethane	5.00	5.02	100	75-125	
1,1,2,2-Tetrachloroethane	5.00	5.44	109	65-130	
1,2,4-Trimethylbenzene	5.00	5.10	102	75-130	
1,2-Dichlorobenzene	5.00	5.00	100	70-120	
1,2-Dichloroethane	5.00	5.13	103	70-130	
1,3-Dichlorobenzene	5.00	5.06	101	75-125	
1,3-Dichloropropane	5.00	5.35	107	75-125	
1,3,5-Trimethylbenzene	5.00	5.09	102	75-130	
2-Butanone (MEK)	20.0	17.1	86	30-150	
1,4-Dichlorobenzene	5.00	5.17	103	75-125	
1,2-Dichloropropane	5.00	5.23	105	75-125	
2,2-Dichloropropane	5.00	4.91	98	70-135	
2-Hexanone	20.0	17.1	85	55-130	
4-Methyl-2-pentanone (MIBK)	20.0	19.7	98	60-135	
4-Isopropyltoluene	5.00	5.10	102	75-130	
Benzene	5.00	5.10	102	80-120	
Acetone	20.0	21.7	108	40-140	
Bromobenzene	5.00	5.14	103	75-125	
Bromoform	5.00	5.10	102	70-130	
Bromomethane	5.00	4.74	95	30-145	
Carbon tetrachloride	5.00	4.98	100	65-140	
Carbon disulfide	5.00	4.17	83	35-160	
2-Chlorotoluene	5.00	5.09	102	75-125	
4-Chlorotoluene	5.00	5.33	107	75-130	
Chlorobenzene	5.00	5.22	104	80-120	
Chlorobromomethane	5.00	5.31	106	65-130	
Chlorodibromomethane	5.00	5.08	102	60-135	
Chloroform	5.00	4.83	97	65-135	
Chloroethane	5.00	5.10	102	60-135	
Chloromethane	5.00	5.03	101	40-125	
cis-1,2-Dichloroethene	5.00	4.99	100	70-125	
cis-1,3-Dichloropropene	5.00	5.19	104	70-130	
Dibromomethane	5.00	5.28	106	75-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: H6939.D
 Lab ID: LCS 280-26526/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorobromomethane	5.00	4.68	94	75-120	
Dichlorodifluoromethane	5.00	4.96	99	30-155	
Ethylbenzene	5.00	5.05	101	75-125	
Hexachlorobutadiene	5.00	5.11	102	50-140	
Isopropylbenzene	5.00	5.36	107	75-125	
Ethylene Dibromide	5.00	5.43	109	80-120	
Methylene Chloride	5.00	5.38	108	55-140	
Methyl tert-butyl ether	10.0	9.09	91	65-125	
m-Xylene & p-Xylene	10.0	10.4	104	75-130	
Naphthalene	5.00	5.18	104	55-140	
n-Butylbenzene	5.00	5.08	102	70-135	
N-Propylbenzene	5.00	5.05	101	70-130	
o-Xylene	5.00	5.23	105	80-120	
Styrene	5.00	4.35	87	65-135	
sec-Butylbenzene	5.00	4.98	100	70-125	
tert-Butylbenzene	5.00	5.08	102	70-130	
trans-1,2-Dichloroethene	5.00	5.10	102	60-140	
trans-1,3-Dichloropropene	5.00	5.17	103	55-140	
Tetrachloroethene	5.00	5.16	103	45-150	
Toluene	5.00	4.89	98	75-120	
Trichloroethene	5.00	5.12	102	70-125	
Trichlorofluoromethane	5.00	4.80	96	60-145	
Vinyl chloride	5.00	4.97	99	50-145	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: G7608.D
 Lab ID: LCS 280-26668/1-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	48.1	96	75-125	
1,1,1-Trichloroethane	50.0	47.7	95	70-135	
1,2,3-Trichloropropane	50.0	45.0	90	65-130	
1,2,3-Trichlorobenzene	50.0	47.9	96	60-135	
1,1-Dichloroethane	50.0	47.8	96	75-125	
1,2,4-Trichlorobenzene	50.0	46.9	94	65-130	
1,2-Dibromo-3-Chloropropane	50.0	47.5	95	40-135	
1,1-Dichloropropene	50.0	49.2	98	70-135	
1,1-Dichloroethene	50.0	49.5	99	65-135	
1,1,2-Trichloroethane	50.0	51.4	103	60-125	
1,1,2,2-Tetrachloroethane	50.0	51.8	104	55-130	
1,2,4-Trimethylbenzene	50.0	46.7	93	65-135	
1,2-Dichlorobenzene	50.0	46.9	94	75-120	
1,2-Dichloroethane	50.0	51.9	104	70-135	
1,3-Dichlorobenzene	50.0	47.0	94	70-125	
1,3-Dichloropropane	50.0	51.3	103	75-125	
1,3,5-Trimethylbenzene	50.0	47.6	95	65-135	
2-Butanone (MEK)	200	212	106	30-160	
1,4-Dichlorobenzene	50.0	47.4	95	70-125	
1,2-Dichloropropane	50.0	49.3	99	70-120	
2,2-Dichloropropane	50.0	49.7	99	65-135	
2-Hexanone	200	222	111	45-145	
4-Methyl-2-pentanone (MIBK)	200	223	111	45-145	
4-Isopropyltoluene	50.0	45.4	91	75-135	
Benzene	50.0	49.1	98	75-125	
Acetone	200	195	98	20-160	
Bromobenzene	50.0	47.8	96	65-120	
Bromoform	50.0	51.5	103	55-135	
Bromomethane	50.0	49.5	99	30-160	
Carbon tetrachloride	50.0	45.9	92	65-135	
Carbon disulfide	50.0	53.4	107	45-160	
2-Chlorotoluene	50.0	48.9	98	70-130	
4-Chlorotoluene	50.0	47.7	95	75-125	
Chlorobenzene	50.0	43.3	87	75-125	
Chlorobromomethane	50.0	50.7	101	70-125	
Chlorodibromomethane	50.0	52.2	104	65-130	
Chloroform	50.0	48.4	97	70-125	
Chloroethane	50.0	51.9	104	40-155	
Chloromethane	50.0	50.8	102	50-130	
cis-1,2-Dichloroethene	50.0	48.3	97	65-125	
cis-1,3-Dichloropropene	50.0	51.5	103	70-125	
Dibromomethane	50.0	50.7	101	75-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: G7608.D
 Lab ID: LCS 280-26668/1-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dichlorobromomethane	50.0	49.4	99	70-130	
Dichlorodifluoromethane	50.0	51.7	103	35-135	
Ethylbenzene	50.0	44.5	89	75-125	
Hexachlorobutadiene	50.0	44.2	88	55-140	
Isopropylbenzene	50.0	48.1	96	75-130	
Ethylene Dibromide	50.0	52.1	104	70-125	
Methylene Chloride	50.0	50.0	100	55-140	
Methyl tert-butyl ether	100	102	102	67-119	
m-Xylene & p-Xylene	100	91.6	92	80-125	
Naphthalene	50.0	48.6	97	40-125	
n-Butylbenzene	50.0	46.6	93	65-140	
N-Propylbenzene	50.0	47.3	95	65-135	
o-Xylene	50.0	47.6	95	75-125	
Styrene	50.0	49.9	100	75-125	
sec-Butylbenzene	50.0	47.2	94	65-130	
tert-Butylbenzene	50.0	46.8	94	65-130	
trans-1,2-Dichloroethene	50.0	47.7	95	65-135	
trans-1,3-Dichloropropene	50.0	52.3	105	65-125	
Tetrachloroethene	50.0	44.6	89	65-140	
Toluene	50.0	46.6	93	70-125	
Trichloroethene	50.0	46.8	94	75-125	
Trichlorofluoromethane	50.0	48.7	97	25-185	
Vinyl chloride	50.0	51.3	103	60-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: G7609.D
 Lab ID: LCSD 280-26668/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	48.8	98	1	30	75-125	
1,1,1-Trichloroethane	50.0	47.9	96	0	30	70-135	
1,2,3-Trichloropropane	50.0	46.2	92	2	30	65-130	
1,2,3-Trichlorobenzene	50.0	47.3	95	1	30	60-135	
1,1-Dichloroethane	50.0	47.5	95	1	30	75-125	
1,2,4-Trichlorobenzene	50.0	46.7	93	1	30	65-130	
1,2-Dibromo-3-Chloropropane	50.0	47.8	96	1	30	40-135	
1,1-Dichloropropene	50.0	50.5	101	2	30	70-135	
1,1-Dichloroethene	50.0	50.1	100	1	30	65-135	
1,1,2-Trichloroethane	50.0	50.5	101	2	30	60-125	
1,1,2,2-Tetrachloroethane	50.0	53.0	106	2	30	55-130	
1,2,4-Trimethylbenzene	50.0	48.1	96	3	30	65-135	
1,2-Dichlorobenzene	50.0	46.6	93	1	30	75-120	
1,2-Dichloroethane	50.0	51.7	103	0	30	70-135	
1,3-Dichlorobenzene	50.0	47.4	95	1	30	70-125	
1,3-Dichloropropane	50.0	49.0	98	5	30	75-125	
1,3,5-Trimethylbenzene	50.0	50.4	101	6	30	65-135	
2-Butanone (MEK)	200	205	103	3	30	30-160	
1,4-Dichlorobenzene	50.0	46.5	93	2	30	70-125	
1,2-Dichloropropane	50.0	49.8	100	1	30	70-120	
2,2-Dichloropropane	50.0	50.5	101	2	30	65-135	
2-Hexanone	200	205	102	8	30	45-145	
4-Methyl-2-pentanone (MIBK)	200	217	108	3	30	45-145	
4-Isopropyltoluene	50.0	47.1	94	4	30	75-135	
Benzene	50.0	50.2	100	2	30	75-125	
Acetone	200	189	95	3	30	20-160	
Bromobenzene	50.0	49.4	99	3	30	65-120	
Bromoform	50.0	51.4	103	0	30	55-135	
Bromomethane	50.0	45.8	92	8	30	30-160	
Carbon tetrachloride	50.0	47.2	94	3	30	65-135	
Carbon disulfide	50.0	50.6	101	5	30	45-160	
2-Chlorotoluene	50.0	50.7	101	4	30	70-130	
4-Chlorotoluene	50.0	50.1	100	5	30	75-125	
Chlorobenzene	50.0	46.9	94	8	30	75-125	
Chlorobromomethane	50.0	49.6	99	2	30	70-125	
Chlorodibromomethane	50.0	49.5	99	5	30	65-130	
Chloroform	50.0	48.5	97	0	30	70-125	
Chloroethane	50.0	47.4	95	9	30	40-155	
Chloromethane	50.0	47.8	96	6	30	50-130	
cis-1,2-Dichloroethene	50.0	48.5	97	0	30	65-125	
cis-1,3-Dichloropropene	50.0	52.3	105	1	30	70-125	
Dibromomethane	50.0	50.6	101	0	30	75-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: G7609.D
 Lab ID: LCSD 280-26668/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorobromomethane	50.0	49.2	98	1	30	70-130	
Dichlorodifluoromethane	50.0	46.6	93	10	30	35-135	
Ethylbenzene	50.0	45.6	91	2	30	75-125	
Hexachlorobutadiene	50.0	45.7	91	3	30	55-140	
Isopropylbenzene	50.0	50.7	101	5	30	75-130	
Ethylene Dibromide	50.0	49.0	98	6	30	70-125	
Methylene Chloride	50.0	49.8	100	0	30	55-140	
Methyl tert-butyl ether	100	99.2	99	3	30	67-119	
m-Xylene & p-Xylene	100	91.4	91	0	30	80-125	
Naphthalene	50.0	48.6	97	0	30	40-125	
n-Butylbenzene	50.0	46.8	94	0	30	65-140	
N-Propylbenzene	50.0	48.9	98	3	30	65-135	
o-Xylene	50.0	47.3	95	1	30	75-125	
Styrene	50.0	50.0	100	0	30	75-125	
sec-Butylbenzene	50.0	49.6	99	5	30	65-130	
tert-Butylbenzene	50.0	49.1	98	5	30	65-130	
trans-1,2-Dichloroethene	50.0	46.9	94	2	30	65-135	
trans-1,3-Dichloropropene	50.0	51.8	104	1	30	65-125	
Tetrachloroethene	50.0	43.6	87	2	30	65-140	
Toluene	50.0	47.2	94	1	30	70-125	
Trichloroethene	50.0	47.6	95	2	30	75-125	
Trichlorofluoromethane	50.0	43.6	87	11	30	25-185	
Vinyl chloride	50.0	45.5	91	12	30	60-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Matrix: WaterLevel: LowLab File ID: H6942.DLab ID: 280-6075-5 MSClient ID: NE SUMP- MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	0.20 U	4.93	99	80-130	
1,1,1-Trichloroethane	5.00	0.20 U	4.62	92	65-130	
1,2,3-Trichloropropane	5.00	0.80 U	5.22	104	75-125	
1,2,3-Trichlorobenzene	5.00	0.40 U	4.84	97	55-140	
1,1-Dichloroethane	5.00	0.20 U	4.72	94	70-135	
1,2,4-Trichlorobenzene	5.00	0.80 U	5.00	100	65-135	
1,2-Dibromo-3-Chloropropane	5.00	1.6 U	4.52 U	90	50-130	
1,1-Dichloropropene	5.00	0.40 U	4.91	98	75-130	
1,1-Dichloroethene	5.00	0.20 U	5.04	101	70-130	
1,1,2-Trichloroethane	5.00	0.40 U	4.92	98	75-125	
1,1,2,2-Tetrachloroethane	5.00	0.40 U	4.87	97	65-130	
1,2,4-Trimethylbenzene	5.00	0.20 U	4.87	97	75-130	
1,2-Dichlorobenzene	5.00	0.20 U	4.85	97	70-120	
1,2-Dichloroethane	5.00	0.20 U	4.68	94	70-130	
1,3-Dichlorobenzene	5.00	0.20 U	4.63	93	75-125	
1,3-Dichloropropane	5.00	0.20 U	4.90	98	75-125	
1,3,5-Trimethylbenzene	5.00	0.80 U	4.84	97	75-130	
2-Butanone (MEK)	20.0	3.2 U	15.9	80	30-150	
1,4-Dichlorobenzene	5.00	0.40 U	4.89	98	75-125	
1,2-Dichloropropane	5.00	0.20 U	4.93	99	75-125	
2,2-Dichloropropane	5.00	0.40 U	4.72	94	70-135	
2-Hexanone	20.0	3.2 U	15.7	79	55-130	
4-Methyl-2-pentanone (MIBK)	20.0	3.2 U	18.5	93	60-135	
4-Isopropyltoluene	5.00	0.40 U	4.84	97	75-130	
Benzene	5.00	0.20 U	4.83	97	80-120	
Acetone	20.0	6.4 U	20.0	100	40-140	
Bromobenzene	5.00	0.20 U	4.86	97	75-125	
Bromoform	5.00	0.40 U	4.70	94	70-130	
Bromomethane	5.00	0.40 U	4.52	90	30-145	
Carbon tetrachloride	5.00	0.40 U	4.72	94	65-140	
Carbon disulfide	5.00	0.80 U	4.20	84	35-160	
2-Chlorotoluene	5.00	0.40 U	5.04	101	75-125	
4-Chlorotoluene	5.00	0.40 U	4.96	99	75-130	
Chlorobenzene	5.00	0.20 U	4.95	99	80-120	
Chlorobromomethane	5.00	0.20 U	4.90	98	65-130	
Chlorodibromomethane	5.00	0.40 U	4.85	97	60-135	
Chloroform	5.00	0.20 U	4.57	91	65-135	
Chloroethane	5.00	1.6 U	5.05	101	60-135	
Chloromethane	5.00	1.6 U	4.68	94	40-125	
cis-1,2-Dichloroethene	5.00	0.20 U	4.78	96	70-125	
cis-1,3-Dichloropropene	5.00	0.20 U	4.84	97	70-130	
Dibromomethane	5.00	0.40 U	4.70	94	75-125	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: H6942.D
 Lab ID: 280-6075-5 MS Client ID: NE SUMP- MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorobromomethane	5.00	0.20 U	4.32	86	75-120	
Dichlorodifluoromethane	5.00	0.80 U	4.82	96	30-155	
Ethylbenzene	5.00	0.20 U	4.97	99	75-125	
Hexachlorobutadiene	5.00	0.40 U	4.81	96	50-140	
Isopropylbenzene	5.00	0.40 U	5.12	102	75-125	
Ethylene Dibromide	5.00	0.20 U	5.09	102	80-120	
Methylene Chloride	5.00	0.61 J	5.10	90	55-140	
Methyl tert-butyl ether	10.0	0.40 U	8.47	85	65-125	
m-Xylene & p-Xylene	10.0	0.80 U	9.98	100	75-130	
Naphthalene	5.00	0.80 U	4.75	95	55-140	
n-Butylbenzene	5.00	0.40 U	4.81	96	70-135	
N-Propylbenzene	5.00	0.20 U	4.88	98	70-130	
o-Xylene	5.00	0.40 U	4.95	99	80-120	
Styrene	5.00	0.40 U	4.45	89	65-135	
sec-Butylbenzene	5.00	0.40 U	4.77	95	70-125	
tert-Butylbenzene	5.00	0.40 U	4.83	97	70-130	
trans-1,2-Dichloroethene	5.00	0.20 U	4.63	93	60-140	
trans-1,3-Dichloropropene	5.00	0.40 U	4.53	91	55-140	
Tetrachloroethene	5.00	0.40 U	4.96	99	45-150	
Toluene	5.00	0.40 U	4.73	95	75-120	
Trichloroethene	5.00	0.20 U	4.87	97	70-125	
Trichlorofluoromethane	5.00	0.80 U	4.77	95	60-145	
Vinyl chloride	5.00	0.80 U	4.70	94	50-145	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Matrix: WaterLevel: LowLab File ID: H6943.DLab ID: 280-6075-5 MSDClient ID: NE SUMP- MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.37	107	9	30	80-130	
1,1,1-Trichloroethane	5.00	4.86	97	5	30	65-130	
1,2,3-Trichloropropane	5.00	6.04	121	15	30	75-125	
1,2,3-Trichlorobenzene	5.00	5.34	107	10	30	55-140	
1,1-Dichloroethane	5.00	5.05	101	7	30	70-135	
1,2,4-Trichlorobenzene	5.00	5.55	111	10	30	65-135	
1,2-Dibromo-3-Chloropropane	5.00	5.13	103	13	30	50-130	
1,1-Dichloropropene	5.00	5.27	105	7	30	75-130	
1,1-Dichloroethene	5.00	5.43	109	7	30	70-130	
1,1,2-Trichloroethane	5.00	5.44	109	10	30	75-125	
1,1,2,2-Tetrachloroethane	5.00	5.56	111	13	30	65-130	
1,2,4-Trimethylbenzene	5.00	5.27	105	8	30	75-130	
1,2-Dichlorobenzene	5.00	5.30	106	9	30	70-120	
1,2-Dichloroethane	5.00	5.19	104	10	30	70-130	
1,3-Dichlorobenzene	5.00	5.13	103	10	30	75-125	
1,3-Dichloropropane	5.00	5.54	111	12	30	75-125	
1,3,5-Trimethylbenzene	5.00	4.29	86	12	30	75-130	M
2-Butanone (MEK)	20.0	19.5	98	20	30	30-150	
1,4-Dichlorobenzene	5.00	5.25	105	7	30	75-125	
1,2-Dichloropropane	5.00	5.33	107	8	30	75-125	
2,2-Dichloropropane	5.00	5.01	100	6	30	70-135	
2-Hexanone	20.0	18.2	91	14	30	55-130	
4-Methyl-2-pentanone (MIBK)	20.0	21.5	107	15	30	60-135	
4-Isopropyltoluene	5.00	5.18	104	7	30	75-130	
Benzene	5.00	5.23	105	8	30	80-120	
Acetone	20.0	22.0	110	10	30	40-140	
Bromobenzene	5.00	5.34	107	9	30	75-125	
Bromoform	5.00	5.35	107	13	30	70-130	
Bromomethane	5.00	5.02	100	11	30	30-145	
Carbon tetrachloride	5.00	5.07	101	7	30	65-140	
Carbon disulfide	5.00	4.19	84	0	30	35-160	
2-Chlorotoluene	5.00	5.27	105	4	30	75-125	
4-Chlorotoluene	5.00	4.11	82	19	30	75-130	
Chlorobenzene	5.00	5.37	107	8	30	80-120	
Chlorobromomethane	5.00	5.47	109	11	30	65-130	
Chlorodibromomethane	5.00	5.34	107	10	30	60-135	
Chloroform	5.00	5.02	100	10	30	65-135	
Chloroethane	5.00	5.33	107	5	30	60-135	
Chloromethane	5.00	4.87	97	4	30	40-125	
cis-1,2-Dichloroethene	5.00	5.05	101	6	30	70-125	
cis-1,3-Dichloropropene	5.00	5.40	108	11	30	70-130	
Dibromomethane	5.00	5.23	105	11	30	75-125	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: H6943.D
 Lab ID: 280-6075-5 MSD Client ID: NE SUMP- MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorobromomethane	5.00	4.89	98	12	30	75-120	
Dichlorodifluoromethane	5.00	5.02	100	4	30	30-155	
Ethylbenzene	5.00	5.33	107	7	30	75-125	
Hexachlorobutadiene	5.00	4.87	97	1	30	50-140	
Isopropylbenzene	5.00	5.40	108	5	30	75-125	
Ethylene Dibromide	5.00	5.65	113	11	30	80-120	
Methylene Chloride	5.00	5.83	104	13	30	55-140	
Methyl tert-butyl ether	10.0	9.84	98	15	30	65-125	
m-Xylene & p-Xylene	10.0	10.6	106	6	30	75-130	
Naphthalene	5.00	5.50	110	15	30	55-140	
n-Butylbenzene	5.00	5.10	102	6	30	70-135	
N-Propylbenzene	5.00	5.10	102	4	30	70-130	
o-Xylene	5.00	5.28	106	6	30	80-120	
Styrene	5.00	4.81	96	8	30	65-135	
sec-Butylbenzene	5.00	4.94	99	4	30	70-125	
tert-Butylbenzene	5.00	5.10	102	6	30	70-130	
trans-1,2-Dichloroethene	5.00	4.96	99	7	30	60-140	
trans-1,3-Dichloropropene	5.00	5.18	104	13	30	55-140	
Tetrachloroethene	5.00	5.27	105	6	30	45-150	
Toluene	5.00	5.08	102	7	30	75-120	
Trichloroethene	5.00	5.19	104	6	30	70-125	
Trichlorofluoromethane	5.00	5.06	101	6	30	60-145	
Vinyl chloride	5.00	5.02	100	7	30	50-145	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab File ID: H6938.D Lab Sample ID: MB 280-26526/4
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: MSV_H Date Analyzed: 08/11/2010 10:27
GC Column: DB-624 (75.53) ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-26526/5	H6939.D	08/11/2010 10:48
NE SUMP-	280-6075-5	H6941.D	08/11/2010 11:36
NE SUMP- MS	280-6075-5 MS	H6942.D	08/11/2010 11:57
NE SUMP- MSD	280-6075-5 MSD	H6943.D	08/11/2010 12:19
SW SUMP-	280-6075-6	H6945.D	08/11/2010 13:06
RINSATE	280-6075-7	H6946.D	08/11/2010 13:27
TRIP BLANK	280-6075-9	H6947.D	08/11/2010 13:49

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab File ID: G7610.D Lab Sample ID: MB 280-26668/3-A
Matrix: Solid Heated Purge: (Y/N) Y
Instrument ID: MSV_G Date Analyzed: 08/12/2010 13:19
GC Column: DB-624 (60.32) ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-26668/1-A	G7608.D	08/12/2010 12:32
	LCSD 280-26668/2-A	G7609.D	08/12/2010 12:55
SS1-	280-6075-1	G7611.D	08/12/2010 14:09
SS2-	280-6075-2	G7612.D	08/12/2010 14:32
SS3-	280-6075-3	G7613.D	08/12/2010 14:55
SS4-	280-6075-4	G7614.D	08/12/2010 15:18
SS1-DUP-	280-6075-8	G7615.D	08/12/2010 15:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: G7558.D BFB Injection Date: 08/11/2010
 Instrument ID: MSV_G BFB Injection Time: 11:14
 Analysis Batch No.: 26761

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.2
75	30.0 - 60.0 % of mass 95	53.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	72.2
175	5.0 - 9.0 % of mass 174	5.5 (7.6) 1
176	95.0 - 101.0 % of mass 174	70.0 (96.8) 1
177	5.0 - 9.0 % of mass 176	4.9 (7.0) 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 280-26761/2	G7561.D	08/11/2010	12:26
	IC 280-26761/3	G7562.D	08/11/2010	12:49
	IC 280-26761/4	G7563.D	08/11/2010	13:12
	IC 280-26761/5	G7564.D	08/11/2010	13:36
	IC 280-26761/6	G7565.D	08/11/2010	13:59
	IC 280-26761/7	G7566.D	08/11/2010	14:22
	IC 280-26761/8	G7567.D	08/11/2010	14:46
	ICV 280-26761/9	G7568.D	08/11/2010	15:09
	ICV 280-26761/10	G7569.D	08/11/2010	15:32
	ICV 280-26761/11	G7570.D	08/11/2010	15:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: G7597.D BFB Injection Date: 08/12/2010
 Instrument ID: MSV_G BFB Injection Time: 07:52
 Analysis Batch No.: 26762

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.2
75	30.0 - 60.0 % of mass 95	50.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	5.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	69.4
175	5.0 - 9.0 % of mass 174	5.1 (7.4) 1
176	95.0 - 101.0 % of mass 174	68.6 (98.8) 1
177	5.0 - 9.0 % of mass 176	4.5 (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
	CCV 280-26762/2	G7598.D	08/12/2010	08:14
	IC 280-26762/3	G7600.D	08/12/2010	09:22
	IC 280-26762/4	G7601.D	08/12/2010	09:45
	IC 280-26762/5	G7602.D	08/12/2010	10:08
	IC 280-26762/6	G7603.D	08/12/2010	10:31
	ICIS 280-26762/7	G7604.D	08/12/2010	10:54
	IC 280-26762/8	G7605.D	08/12/2010	11:17
	IC 280-26762/9	G7606.D	08/12/2010	11:40
	ICV 280-26762/10	G7607.D	08/12/2010	12:09
	LCS 280-26668/1-A	G7608.D	08/12/2010	12:32
	LCSD 280-26668/2-A	G7609.D	08/12/2010	12:55
	MB 280-26668/3-A	G7610.D	08/12/2010	13:19
SS1-	280-6075-1	G7611.D	08/12/2010	14:09
SS2-	280-6075-2	G7612.D	08/12/2010	14:32
SS3-	280-6075-3	G7613.D	08/12/2010	14:55
SS4-	280-6075-4	G7614.D	08/12/2010	15:18
SS1-DUP-	280-6075-8	G7615.D	08/12/2010	15:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: H6884.D BFB Injection Date: 08/10/2010
 Instrument ID: MSV_H BFB Injection Time: 06:21
 Analysis Batch No.: 26333

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	25.7
75	30.0 - 60.0 % of mass 95	52.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	67.6
175	5.0 - 9.0 % of mass 174	5.2 (7.7) 1
176	95.0 - 101.0 % of mass 174	66.2 (97.8) 1
177	5.0 - 9.0 % of mass 176	4.6 (6.9) 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 280-26333/2	H6885.D	08/10/2010	06:31
	IC 280-26333/3	H6886.D	08/10/2010	06:53
	IC 280-26333/4	H6887.D	08/10/2010	07:14
	IC 280-26333/5	H6888.D	08/10/2010	07:35
	IC 280-26333/6	H6889.D	08/10/2010	07:57
	IC 280-26333/7	H6890.D	08/10/2010	08:18
	IC 280-26333/8	H6891.D	08/10/2010	08:39
	IC 280-26333/9	H6892.D	08/10/2010	09:01
	IC 280-26333/10	H6893.D	08/10/2010	09:23
	IC 280-26333/11	H6894.D	08/10/2010	09:44
	IC 280-26333/12	H6895.D	08/10/2010	10:06
	ICIS 280-26333/13	H6896.D	08/10/2010	10:27
	IC 280-26333/14	H6897.D	08/10/2010	10:49
	IC 280-26333/15	H6898.D	08/10/2010	11:10
	ICV 280-26333/16	H6899.D	08/10/2010	11:32
	ICV 280-26333/17	H6900.D	08/10/2010	11:54
	ICV 280-26333/18	H6901.D	08/10/2010	12:15
	ICV 280-26333/19	H6902.D	08/10/2010	12:37

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: H6932.D BFB Injection Date: 08/11/2010
 Instrument ID: MSV_H BFB Injection Time: 08:25
 Analysis Batch No.: 26526

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	24.9
75	30.0 - 60.0 % of mass 95	50.3
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	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	63.2
175	5.0 - 9.0 % of mass 174	5.0 (7.8) 1
176	95.0 - 101.0 % of mass 174	61.8 (97.7) 1
177	5.0 - 9.0 % of mass 176	4.2 (6.7) 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
	CCV 280-26526/2	H6933.D	08/11/2010	08:32
	CCV 280-26526/3	H6934.D	08/11/2010	08:54
	MB 280-26526/4	H6938.D	08/11/2010	10:27
	LCS 280-26526/5	H6939.D	08/11/2010	10:48
NE SUMP-	280-6075-5	H6941.D	08/11/2010	11:36
NE SUMP- MS	280-6075-5 MS	H6942.D	08/11/2010	11:57
NE SUMP- MSD	280-6075-5 MSD	H6943.D	08/11/2010	12:19
SW SUMP-	280-6075-6	H6945.D	08/11/2010	13:06
RINSATE	280-6075-7	H6946.D	08/11/2010	13:27
TRIP BLANK	280-6075-9	H6947.D	08/11/2010	13:49

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Sample No.: ICIS 280-26762/7 Date Analyzed: 08/12/2010 10:54

Instrument ID: MSV_G GC Column: DB-624 (60.32) ID: 0.32 (mm)

Lab File ID (Standard): G7604.D Heated Purge: (Y/N) Y

Calibration ID: 2509

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1316618	8.14	467373	10.87	827658	13.03
UPPER LIMIT		2633236	8.64	934746	11.37	1655316	13.53
LOWER LIMIT		658309	7.64	233687	10.37	413829	12.53
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 280-26761/9		1450551	8.13	505058	10.87	937456	13.02
ICV 280-26761/10		1436020	8.14	498551	10.87	873490	13.03
ICV 280-26761/11		1434417	8.14	491490	10.88	879578	13.03
CCV 280-26762/2		1329669	8.13	499897	10.87	861339	13.02
ICV 280-26762/10		1393466	8.13	501837	10.87	871881	13.03
LCS 280-26668/1-A		1312248	8.14	462317	10.87	803344	13.02
LCSD 280-26668/2-A		1396661	8.14	515204	10.88	863794	13.03
MB 280-26668/3-A		1393500	8.15	484690	10.87	839124	13.03
280-6075-1	SS1-	1367045	8.14	446456	10.88	542165	13.03
280-6075-2	SS2-	1304590	8.15	449771	10.88	613181	13.04
280-6075-3	SS3-	1336417	8.14	468180	10.88	642429	13.04
280-6075-4	SS4-	1334513	8.14	435125	10.88	549088	13.04
280-6075-8	SS1-DUP-	1361726	8.15	467839	10.88	636336	13.04

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Sample No.: ICIS 280-26333/13 Date Analyzed: 08/10/2010 10:27

Instrument ID: MSV_H GC Column: DB-624 (75.53) ID: 0.53 (mm)

Lab File ID (Standard): H6896.D Heated Purge: (Y/N) N

Calibration ID: 2464

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1637152	6.31	350021	10.51	492785	13.76	
UPPER LIMIT	3274304	6.81	700042	11.01	985570	14.26	
LOWER LIMIT	818576	5.81	175011	10.01	246393	13.26	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-26333/16		1713096	6.31	343171	10.51	512266	13.75
ICV 280-26333/17		1729145	6.31	376750	10.51	529274	13.75
ICV 280-26333/18		1718627	6.31	366052	10.50	521107	13.76
ICV 280-26333/19		1708932	6.31	360669	10.51	524051	13.75
CCV 280-26526/2		1569800	6.29	304980	10.49	453292	13.74
CCV 280-26526/3		1636270	6.31	338150	10.50	464208	13.76
MB 280-26526/4		1725875	6.31	365722	10.51	516266	13.75
LCS 280-26526/5		1718896	6.31	338365	10.51	507268	13.75
280-6075-5	NE SUMP-	1733018	6.31	367867	10.50	496788	13.76
280-6075-5 MS	NE SUMP- MS	1864106	6.31	363409	10.51	549580	13.75
280-6075-5 MSD	NE SUMP- MSD	1895001	6.31	374968	10.51	570728	13.75
280-6075-6	SW SUMP-	1840199	6.31	385763	10.51	539575	13.76
280-6075-7	RINSATE	1858017	6.31	396481	10.51	568057	13.77
280-6075-9	TRIP BLANK	1882661	6.31	403006	10.50	579540	13.76

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1- Lab Sample ID: 280-6075-1

Matrix: Solid Lab File ID: G7611.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 09:45

Sample wt/vol: 5.227(g) Date Analyzed: 08/12/2010 14:09

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 13.5 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	5.3	0.59
71-55-6	1,1,1-Trichloroethane	1.1	U	5.3	0.55
96-18-4	1,2,3-Trichloropropane	1.1	U	5.3	0.86
87-61-6	1,2,3-Trichlorobenzene	1.1	U	5.3	0.79
75-34-3	1,1-Dichloroethane	1.1	U	5.3	0.22
120-82-1	1,2,4-Trichlorobenzene	1.1	U	5.3	0.77
96-12-8	1,2-Dibromo-3-Chloropropane	1.1	U	11	0.63
563-58-6	1,1-Dichloropropene	1.1	U	5.3	0.57
75-35-4	1,1-Dichloroethene	1.1	U	5.3	0.62
79-00-5	1,1,2-Trichloroethane	1.1	U	5.3	0.93
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	5.3	0.65
95-63-6	1,2,4-Trimethylbenzene	1.1	U	5.3	0.61
95-50-1	1,2-Dichlorobenzene	1.1	U	5.3	0.48
107-06-2	1,2-Dichloroethane	1.1	U	5.3	0.74
541-73-1	1,3-Dichlorobenzene	1.1	U	5.3	0.51
142-28-9	1,3-Dichloropropane	1.1	U	5.3	0.54
108-67-8	1,3,5-Trimethylbenzene	1.1	U	5.3	0.60
78-93-3	2-Butanone (MEK)	11	U	21	1.9
106-46-7	1,4-Dichlorobenzene	1.1	U	5.3	0.83
78-87-5	1,2-Dichloropropane	1.1	U	5.3	0.58
594-20-7	2,2-Dichloropropane	1.1	U	5.3	0.47
591-78-6	2-Hexanone	11	U	21	5.2
108-10-1	4-Methyl-2-pentanone (MIBK)	11	U	21	4.6
99-87-6	4-Isopropyltoluene	3.5	J	5.3	0.52
71-43-2	Benzene	1.1	U	5.3	0.50
67-64-1	Acetone	14	J	21	5.7
108-86-1	Bromobenzene	1.1	U	5.3	0.52
75-25-2	Bromoform	1.1	U	5.3	0.24
74-83-9	Bromomethane	1.1	U	11	0.53
56-23-5	Carbon tetrachloride	1.1	U	5.3	0.67
75-15-0	Carbon disulfide	1.1	U	5.3	0.44
95-49-8	2-Chlorotoluene	1.1	U	5.3	0.54
106-43-4	4-Chlorotoluene	1.1	U	5.3	0.83
108-90-7	Chlorobenzene	1.1	U	5.3	0.57
74-97-5	Chlorobromomethane	1.1	U	5.3	0.32
124-48-1	Chlorodibromomethane	1.1	U	5.3	0.60

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1- Lab Sample ID: 280-6075-1

Matrix: Solid Lab File ID: G7611.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 09:45

Sample wt/vol: 5.227(g) Date Analyzed: 08/12/2010 14:09

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 13.5 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	1.1	U	11	0.31
75-00-3	Chloroethane	1.1	U	11	0.94
74-87-3	Chloromethane	1.1	U	11	0.81
156-59-2	cis-1,2-Dichloroethene	0.89	J	5.3	0.59
10061-01-5	cis-1,3-Dichloropropene	2.1	U	5.3	1.4
74-95-3	Dibromomethane	1.1	U	5.3	0.89
75-27-4	Dichlorobromomethane	1.1	U	5.3	0.23
75-71-8	Dichlorodifluoromethane	1.1	U	11	0.55
100-41-4	Ethylbenzene	1.1	U	5.3	0.71
87-68-3	Hexachlorobutadiene	1.1	U	5.3	0.58
98-82-8	Isopropylbenzene	1.1	U	5.3	0.62
106-93-4	Ethylene Dibromide	1.1	U	5.3	0.55
75-09-2	Methylene Chloride	1.1	U	5.3	0.79
1634-04-4	Methyl tert-butyl ether	1.1	U	21	0.36
179601-23-1	m-Xylene & p-Xylene	2.1	U	3.4	1.1
91-20-3	Naphthalene	1.1	U	5.3	0.67
104-51-8	n-Butylbenzene	1.1	U	5.3	0.59
103-65-1	N-Propylbenzene	1.1	U	5.3	0.61
95-47-6	o-Xylene	1.1	U	5.3	0.65
100-42-5	Styrene	1.1	U	5.3	0.67
135-98-8	sec-Butylbenzene	1.1	U	5.3	0.81
98-06-6	tert-Butylbenzene	1.1	U	5.3	0.53
156-60-5	trans-1,2-Dichloroethene	1.1	U	5.3	0.41
10061-02-6	trans-1,3-Dichloropropene	1.1	U	5.3	0.71
127-18-4	Tetrachloroethene	1.1	U	5.3	0.62
108-88-3	Toluene	1.1	U	5.3	0.73
79-01-6	Trichloroethene	1.1	U	5.3	0.24
75-69-4	Trichlorofluoromethane	2.1	U	11	1.1
75-01-4	Vinyl chloride	2.1	U	5.3	1.4
110-54-3	Hexane	5.3	U	5.3	0.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1- Lab Sample ID: 280-6075-1
Matrix: Solid Lab File ID: G7611.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 09:45
Sample wt/vol: 5.227(g) Date Analyzed: 08/12/2010 14:09
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: 13.5 Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	106	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	114	85-120	
1868-53-7	Dibromofluoromethane (Surr)	91	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS2- Lab Sample ID: 280-6075-2

Matrix: Solid Lab File ID: G7612.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:10

Sample wt/vol: 5.351(g) Date Analyzed: 08/12/2010 14:32

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 6.7 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.94	U	4.7	0.52
71-55-6	1,1,1-Trichloroethane	0.94	U	4.7	0.49
96-18-4	1,2,3-Trichloropropane	0.94	U	4.7	0.76
87-61-6	1,2,3-Trichlorobenzene	0.94	U	4.7	0.70
75-34-3	1,1-Dichloroethane	0.94	U	4.7	0.20
120-82-1	1,2,4-Trichlorobenzene	0.94	U	4.7	0.68
96-12-8	1,2-Dibromo-3-Chloropropane	0.94	U	9.4	0.56
563-58-6	1,1-Dichloropropene	0.94	U	4.7	0.51
75-35-4	1,1-Dichloroethene	0.94	U	4.7	0.55
79-00-5	1,1,2-Trichloroethane	0.94	U	4.7	0.82
79-34-5	1,1,2,2-Tetrachloroethane	0.94	U	4.7	0.57
95-63-6	1,2,4-Trimethylbenzene	0.94	U	4.7	0.54
95-50-1	1,2-Dichlorobenzene	0.94	U	4.7	0.42
107-06-2	1,2-Dichloroethane	0.94	U	4.7	0.65
541-73-1	1,3-Dichlorobenzene	0.94	U	4.7	0.45
142-28-9	1,3-Dichloropropane	0.94	U	4.7	0.48
108-67-8	1,3,5-Trimethylbenzene	0.94	U	4.7	0.53
78-93-3	2-Butanone (MEK)	9.4	U	19	1.7
106-46-7	1,4-Dichlorobenzene	0.94	U	4.7	0.73
78-87-5	1,2-Dichloropropane	0.94	U	4.7	0.51
594-20-7	2,2-Dichloropropane	0.94	U	4.7	0.41
591-78-6	2-Hexanone	9.4	U	19	4.6
108-10-1	4-Methyl-2-pentanone (MIBK)	9.4	U	19	4.1
99-87-6	4-Isopropyltoluene	5.6		4.7	0.46
71-43-2	Benzene	0.94	U	4.7	0.44
67-64-1	Acetone	14	J	19	5.0
108-86-1	Bromobenzene	0.94	U	4.7	0.46
75-25-2	Bromoform	0.94	U	4.7	0.22
74-83-9	Bromomethane	0.94	U	9.4	0.47
56-23-5	Carbon tetrachloride	0.94	U	4.7	0.59
75-15-0	Carbon disulfide	0.94	U	4.7	0.39
95-49-8	2-Chlorotoluene	0.94	U	4.7	0.48
106-43-4	4-Chlorotoluene	0.94	U	4.7	0.73
108-90-7	Chlorobenzene	0.94	U	4.7	0.51
74-97-5	Chlorobromomethane	0.94	U	4.7	0.28
124-48-1	Chlorodibromomethane	0.94	U	4.7	0.53

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS2- Lab Sample ID: 280-6075-2

Matrix: Solid Lab File ID: G7612.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:10

Sample wt/vol: 5.351(g) Date Analyzed: 08/12/2010 14:32

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 6.7 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.94	U	9.4	0.27
75-00-3	Chloroethane	0.94	U	9.4	0.83
74-87-3	Chloromethane	0.94	U	9.4	0.72
156-59-2	cis-1,2-Dichloroethene	1.9	J	4.7	0.52
10061-01-5	cis-1,3-Dichloropropene	1.9	U	4.7	1.2
74-95-3	Dibromomethane	0.94	U	4.7	0.79
75-27-4	Dichlorobromomethane	0.94	U	4.7	0.21
75-71-8	Dichlorodifluoromethane	0.94	U	9.4	0.49
100-41-4	Ethylbenzene	0.94	U	4.7	0.63
87-68-3	Hexachlorobutadiene	0.94	U	4.7	0.51
98-82-8	Isopropylbenzene	0.94	U	4.7	0.55
106-93-4	Ethylene Dibromide	0.94	U	4.7	0.49
75-09-2	Methylene Chloride	0.94	U	4.7	0.70
1634-04-4	Methyl tert-butyl ether	0.94	U	19	0.32
179601-23-1	m-Xylene & p-Xylene	1.9	U	3.0	0.97
91-20-3	Naphthalene	0.94	U	4.7	0.59
104-51-8	n-Butylbenzene	0.94	U	4.7	0.52
103-65-1	N-Propylbenzene	0.94	U	4.7	0.54
95-47-6	o-Xylene	0.94	U	4.7	0.57
100-42-5	Styrene	0.94	U	4.7	0.59
135-98-8	sec-Butylbenzene	0.94	U	4.7	0.72
98-06-6	tert-Butylbenzene	0.94	U	4.7	0.47
156-60-5	trans-1,2-Dichloroethene	0.94	U	4.7	0.36
10061-02-6	trans-1,3-Dichloropropene	0.94	U	4.7	0.63
127-18-4	Tetrachloroethene	0.94	U	4.7	0.55
108-88-3	Toluene	0.94	U	4.7	0.65
79-01-6	Trichloroethene	0.94	U	4.7	0.22
75-69-4	Trichlorofluoromethane	1.9	U	9.4	0.97
75-01-4	Vinyl chloride	1.9	U	4.7	1.3
110-54-3	Hexane	4.7	U	4.7	0.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- Lab Sample ID: 280-6075-2
Matrix: Solid Lab File ID: G7612.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:10
Sample wt/vol: 5.351(g) Date Analyzed: 08/12/2010 14:32
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: 6.7 Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	101	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	107	85-120	
1868-53-7	Dibromofluoromethane (Surr)	92	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS3- Lab Sample ID: 280-6075-3

Matrix: Solid Lab File ID: G7613.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:30

Sample wt/vol: 4.483(g) Date Analyzed: 08/12/2010 14:55

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 12.1 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U	7.1	0.79
71-55-6	1,1,1-Trichloroethane	1.4	U	7.1	0.74
96-18-4	1,2,3-Trichloropropane	1.4	U	7.1	1.1
87-61-6	1,2,3-Trichlorobenzene	1.4	U	7.1	1.1
75-34-3	1,1-Dichloroethane	1.4	U	7.1	0.30
120-82-1	1,2,4-Trichlorobenzene	1.4	U	7.1	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	1.4	U	14	0.85
563-58-6	1,1-Dichloropropene	1.4	U	7.1	0.76
75-35-4	1,1-Dichloroethene	1.4	U	7.1	0.84
79-00-5	1,1,2-Trichloroethane	1.4	U	7.1	1.2
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	7.1	0.86
95-63-6	1,2,4-Trimethylbenzene	1.4	U	7.1	0.82
95-50-1	1,2-Dichlorobenzene	1.4	U	7.1	0.64
107-06-2	1,2-Dichloroethane	1.4	U	7.1	0.99
541-73-1	1,3-Dichlorobenzene	1.4	U	7.1	0.68
142-28-9	1,3-Dichloropropane	1.4	U	7.1	0.72
108-67-8	1,3,5-Trimethylbenzene	1.4	U	7.1	0.81
78-93-3	2-Butanone (MEK)	14	U	28	2.6
106-46-7	1,4-Dichlorobenzene	1.4	U	7.1	1.1
78-87-5	1,2-Dichloropropane	1.4	U	7.1	0.78
594-20-7	2,2-Dichloropropane	1.4	U	7.1	0.62
591-78-6	2-Hexanone	14	U	28	6.9
108-10-1	4-Methyl-2-pentanone (MIBK)	14	U	28	6.2
99-87-6	4-Isopropyltoluene	14		7.1	0.69
71-43-2	Benzene	1.4	U	7.1	0.67
67-64-1	Acetone	14	J	28	7.6
108-86-1	Bromobenzene	1.4	U	7.1	0.69
75-25-2	Bromoform	1.4	U	7.1	0.33
74-83-9	Bromomethane	1.4	U	14	0.71
56-23-5	Carbon tetrachloride	1.4	U	7.1	0.89
75-15-0	Carbon disulfide	1.4	U	7.1	0.59
95-49-8	2-Chlorotoluene	1.4	U	7.1	0.72
106-43-4	4-Chlorotoluene	1.4	U	7.1	1.1
108-90-7	Chlorobenzene	1.4	U	7.1	0.76
74-97-5	Chlorobromomethane	1.4	U	7.1	0.42
124-48-1	Chlorodibromomethane	1.4	U	7.1	0.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS3- Lab Sample ID: 280-6075-3

Matrix: Solid Lab File ID: G7613.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:30

Sample wt/vol: 4.483(g) Date Analyzed: 08/12/2010 14:55

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 12.1 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	1.4	U	14	0.41
75-00-3	Chloroethane	1.4	U	14	1.3
74-87-3	Chloromethane	1.4	U	14	1.1
156-59-2	cis-1,2-Dichloroethene	1.4	U	7.1	0.79
10061-01-5	cis-1,3-Dichloropropene	2.8	U	7.1	1.8
74-95-3	Dibromomethane	1.4	U	7.1	1.2
75-27-4	Dichlorobromomethane	1.4	U	7.1	0.31
75-71-8	Dichlorodifluoromethane	1.4	U	14	0.74
100-41-4	Ethylbenzene	1.4	U	7.1	0.95
87-68-3	Hexachlorobutadiene	1.4	U	7.1	0.78
98-82-8	Isopropylbenzene	1.4	U	7.1	0.84
106-93-4	Ethylene Dibromide	1.4	U	7.1	0.74
75-09-2	Methylene Chloride	1.4	U	7.1	1.1
1634-04-4	Methyl tert-butyl ether	1.4	U	28	0.48
179601-23-1	m-Xylene & p-Xylene	2.8	U	4.5	1.5
91-20-3	Naphthalene	1.4	U	7.1	0.89
104-51-8	n-Butylbenzene	1.4	U	7.1	0.79
103-65-1	N-Propylbenzene	1.4	U	7.1	0.82
95-47-6	o-Xylene	1.4	U	7.1	0.86
100-42-5	Styrene	1.4	U	7.1	0.89
135-98-8	sec-Butylbenzene	1.4	U	7.1	1.1
98-06-6	tert-Butylbenzene	1.4	U	7.1	0.71
156-60-5	trans-1,2-Dichloroethene	1.4	U	7.1	0.55
10061-02-6	trans-1,3-Dichloropropene	1.4	U	7.1	0.95
127-18-4	Tetrachloroethene	1.4	U	7.1	0.84
108-88-3	Toluene	1.4	U	7.1	0.98
79-01-6	Trichloroethene	1.4	U	7.1	0.33
75-69-4	Trichlorofluoromethane	2.8	U	14	1.5
75-01-4	Vinyl chloride	2.8	U	7.1	1.9
110-54-3	Hexane	7.1	U	7.1	0.96

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS3- Lab Sample ID: 280-6075-3
Matrix: Solid Lab File ID: G7613.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:30
Sample wt/vol: 4.483(g) Date Analyzed: 08/12/2010 14:55
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: 12.1 Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	100	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	106	85-120	
1868-53-7	Dibromofluoromethane (Surr)	91	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS4- Lab Sample ID: 280-6075-4

Matrix: Solid Lab File ID: G7614.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:45

Sample wt/vol: 6.293(g) Date Analyzed: 08/12/2010 15:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 7.9 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.69	U	3.4	0.38
71-55-6	1,1,1-Trichloroethane	0.69	U	3.4	0.36
96-18-4	1,2,3-Trichloropropane	0.69	U	3.4	0.56
87-61-6	1,2,3-Trichlorobenzene	0.69	U	3.4	0.51
75-34-3	1,1-Dichloroethane	0.69	U	3.4	0.14
120-82-1	1,2,4-Trichlorobenzene	0.69	U	3.4	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.69	U	6.9	0.41
563-58-6	1,1-Dichloropropene	0.69	U	3.4	0.37
75-35-4	1,1-Dichloroethene	0.69	U	3.4	0.40
79-00-5	1,1,2-Trichloroethane	0.69	U	3.4	0.60
79-34-5	1,1,2,2-Tetrachloroethane	0.69	U	3.4	0.42
95-63-6	1,2,4-Trimethylbenzene	0.69	U	3.4	0.40
95-50-1	1,2-Dichlorobenzene	0.69	U	3.4	0.31
107-06-2	1,2-Dichloroethane	0.69	U	3.4	0.48
541-73-1	1,3-Dichlorobenzene	0.69	U	3.4	0.33
142-28-9	1,3-Dichloropropane	0.69	U	3.4	0.35
108-67-8	1,3,5-Trimethylbenzene	0.69	U	3.4	0.39
78-93-3	2-Butanone (MEK)	3.4	J	14	1.3
106-46-7	1,4-Dichlorobenzene	0.69	U	3.4	0.53
78-87-5	1,2-Dichloropropane	0.69	U	3.4	0.38
594-20-7	2,2-Dichloropropane	0.69	U	3.4	0.30
591-78-6	2-Hexanone	6.9	U	14	3.4
108-10-1	4-Methyl-2-pentanone (MIBK)	6.9	U	14	3.0
99-87-6	4-Isopropyltoluene	1.8	J	3.4	0.34
71-43-2	Benzene	0.69	U	3.4	0.32
67-64-1	Acetone	35		14	3.7
108-86-1	Bromobenzene	0.69	U	3.4	0.34
75-25-2	Bromoform	0.69	U	3.4	0.16
74-83-9	Bromomethane	0.69	U	6.9	0.34
56-23-5	Carbon tetrachloride	0.69	U	3.4	0.43
75-15-0	Carbon disulfide	0.69	U	3.4	0.29
95-49-8	2-Chlorotoluene	0.69	U	3.4	0.35
106-43-4	4-Chlorotoluene	0.69	U	3.4	0.53
108-90-7	Chlorobenzene	0.69	U	3.4	0.37
74-97-5	Chlorobromomethane	0.69	U	3.4	0.21
124-48-1	Chlorodibromomethane	0.69	U	3.4	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS4- Lab Sample ID: 280-6075-4

Matrix: Solid Lab File ID: G7614.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:45

Sample wt/vol: 6.293(g) Date Analyzed: 08/12/2010 15:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 7.9 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.69	U	6.9	0.20
75-00-3	Chloroethane	0.69	U	6.9	0.61
74-87-3	Chloromethane	0.69	U	6.9	0.53
156-59-2	cis-1,2-Dichloroethene	0.69	U	3.4	0.38
10061-01-5	cis-1,3-Dichloropropene	1.4	U	3.4	0.88
74-95-3	Dibromomethane	0.69	U	3.4	0.58
75-27-4	Dichlorobromomethane	0.69	U	3.4	0.15
75-71-8	Dichlorodifluoromethane	0.69	U	6.9	0.36
100-41-4	Ethylbenzene	0.69	U	3.4	0.46
87-68-3	Hexachlorobutadiene	0.69	U	3.4	0.38
98-82-8	Isopropylbenzene	0.69	U	3.4	0.40
106-93-4	Ethylene Dibromide	0.69	U	3.4	0.36
75-09-2	Methylene Chloride	0.69	U	3.4	0.51
1634-04-4	Methyl tert-butyl ether	0.69	U	14	0.23
179601-23-1	m-Xylene & p-Xylene	1.4	U	2.2	0.71
91-20-3	Naphthalene	0.69	U	3.4	0.43
104-51-8	n-Butylbenzene	0.69	U	3.4	0.38
103-65-1	N-Propylbenzene	0.69	U	3.4	0.40
95-47-6	o-Xylene	0.69	U	3.4	0.42
100-42-5	Styrene	0.69	U	3.4	0.43
135-98-8	sec-Butylbenzene	0.69	U	3.4	0.53
98-06-6	tert-Butylbenzene	0.69	U	3.4	0.34
156-60-5	trans-1,2-Dichloroethene	0.69	U	3.4	0.27
10061-02-6	trans-1,3-Dichloropropene	0.69	U	3.4	0.46
127-18-4	Tetrachloroethene	0.69	U	3.4	0.40
108-88-3	Toluene	0.69	U	3.4	0.47
79-01-6	Trichloroethene	0.69	U	3.4	0.16
75-69-4	Trichlorofluoromethane	1.4	U	6.9	0.71
75-01-4	Vinyl chloride	1.4	U	3.4	0.92
110-54-3	Hexane	3.4	U	3.4	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS4- Lab Sample ID: 280-6075-4
Matrix: Solid Lab File ID: G7614.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 10:45
Sample wt/vol: 6.293(g) Date Analyzed: 08/12/2010 15:18
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: 7.9 Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	107	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	109	85-120	
1868-53-7	Dibromofluoromethane (Surr)	85	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- Lab Sample ID: 280-6075-5

Matrix: Water Lab File ID: H6941.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 11:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.16
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.18
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	0.81
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.14
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.14
78-93-3	2-Butanone (MEK)	3.2	U	6.0	1.8
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.13
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.20
591-78-6	2-Hexanone	3.2	U	5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	1.0
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.17
71-43-2	Benzene	0.20	U	1.0	0.16
67-64-1	Acetone	6.4	U	10	1.9
108-86-1	Bromobenzene	0.20	U	1.0	0.17
75-25-2	Bromoform	0.40	U	1.0	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.21
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.19
75-15-0	Carbon disulfide	0.80	U	2.0	0.45
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.17
108-90-7	Chlorobenzene	0.20	U	1.0	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- Lab Sample ID: 280-6075-5

Matrix: Water Lab File ID: H6941.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 11:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.20	U	1.0	0.16
75-00-3	Chloroethane	1.6	U	2.0	0.41
74-87-3	Chloromethane	1.6	U	2.0	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.16
74-95-3	Dibromomethane	0.40	U	1.0	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.19
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.18
75-09-2	Methylene Chloride	0.61	J	5.0	0.32
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.19
100-42-5	Styrene	0.40	U	1.0	0.17
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.16
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.19
127-18-4	Tetrachloroethene	0.40	U	1.0	0.20
108-88-3	Toluene	0.40	U	1.0	0.17
79-01-6	Trichloroethene	0.20	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.40
110-54-3	Hexane	2.0	U	2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: NE SUMP- Lab Sample ID: 280-6075-5
Matrix: Water Lab File ID: H6941.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 11:36
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	99	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	97	75-120	
1868-53-7	Dibromofluoromethane (Surr)	94	85-115	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6

Matrix: Water Lab File ID: H6945.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:30

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:06

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.16
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.18
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	0.81
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.14
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.14
78-93-3	2-Butanone (MEK)	3.2	U	6.0	1.8
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.13
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.20
591-78-6	2-Hexanone	3.2	U	5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	1.0
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.17
71-43-2	Benzene	0.20	U	1.0	0.16
67-64-1	Acetone	1.9	J	10	1.9
108-86-1	Bromobenzene	0.20	U	1.0	0.17
75-25-2	Bromoform	0.40	U	1.0	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.21
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.19
75-15-0	Carbon disulfide	0.80	U	2.0	0.45
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.17
108-90-7	Chlorobenzene	0.20	U	1.0	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6

Matrix: Water Lab File ID: H6945.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:30

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:06

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.20	U	1.0	0.16
75-00-3	Chloroethane	1.6	U	2.0	0.41
74-87-3	Chloromethane	1.6	U	2.0	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.16
74-95-3	Dibromomethane	0.40	U	1.0	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.19
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.18
75-09-2	Methylene Chloride	0.36	J	5.0	0.32
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.19
100-42-5	Styrene	0.40	U	1.0	0.17
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.16
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.19
127-18-4	Tetrachloroethene	0.40	U	1.0	0.20
108-88-3	Toluene	0.40	U	1.0	0.17
79-01-6	Trichloroethene	0.20	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.40
110-54-3	Hexane	2.0	U	2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6
Matrix: Water Lab File ID: H6945.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:30
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:06
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	110	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	107	75-120	
1868-53-7	Dibromofluoromethane (Surr)	104	85-115	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: RINSATE Lab Sample ID: 280-6075-7

Matrix: Water Lab File ID: H6946.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 11:45

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.16
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.18
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	0.81
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.14
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	0.15	J	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.14
78-93-3	2-Butanone (MEK)	3.2	U	6.0	1.8
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.13
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.20
591-78-6	2-Hexanone	3.2	U	5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	1.0
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.17
71-43-2	Benzene	0.20	U	1.0	0.16
67-64-1	Acetone	4.0	J	10	1.9
108-86-1	Bromobenzene	0.20	U	1.0	0.17
75-25-2	Bromoform	0.40	U	1.0	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.21
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.19
75-15-0	Carbon disulfide	0.80	U	2.0	0.45
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.17
108-90-7	Chlorobenzene	0.20	U	1.0	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: RINSATE Lab Sample ID: 280-6075-7

Matrix: Water Lab File ID: H6946.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 11:45

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.20	U	1.0	0.16
75-00-3	Chloroethane	1.6	U	2.0	0.41
74-87-3	Chloromethane	1.6	U	2.0	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.16
74-95-3	Dibromomethane	0.40	U	1.0	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.19
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.18
75-09-2	Methylene Chloride	0.38	J	5.0	0.32
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.19
100-42-5	Styrene	0.40	U	1.0	0.17
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.16
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.19
127-18-4	Tetrachloroethene	0.40	U	1.0	0.20
108-88-3	Toluene	0.31	J	1.0	0.17
79-01-6	Trichloroethene	0.20	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.40
110-54-3	Hexane	2.0	U	2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: RINSATE Lab Sample ID: 280-6075-7
Matrix: Water Lab File ID: H6946.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 11:45
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:27
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	112	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	108	75-120	
1868-53-7	Dibromofluoromethane (Surr)	109	85-115	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8

Matrix: Solid Lab File ID: G7615.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 11:30

Sample wt/vol: 5.838(g) Date Analyzed: 08/12/2010 15:42

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 5.4 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.78	U	3.9	0.43
71-55-6	1,1,1-Trichloroethane	0.78	U	3.9	0.40
96-18-4	1,2,3-Trichloropropane	0.78	U	3.9	0.63
87-61-6	1,2,3-Trichlorobenzene	0.78	U	3.9	0.58
75-34-3	1,1-Dichloroethane	0.78	U	3.9	0.16
120-82-1	1,2,4-Trichlorobenzene	0.78	U	3.9	0.57
96-12-8	1,2-Dibromo-3-Chloropropane	0.78	U	7.8	0.47
563-58-6	1,1-Dichloropropene	0.78	U	3.9	0.42
75-35-4	1,1-Dichloroethene	0.78	U	3.9	0.46
79-00-5	1,1,2-Trichloroethane	0.78	U	3.9	0.68
79-34-5	1,1,2,2-Tetrachloroethane	0.78	U	3.9	0.47
95-63-6	1,2,4-Trimethylbenzene	0.78	U	3.9	0.45
95-50-1	1,2-Dichlorobenzene	0.78	U	3.9	0.35
107-06-2	1,2-Dichloroethane	0.78	U	3.9	0.54
541-73-1	1,3-Dichlorobenzene	0.78	U	3.9	0.37
142-28-9	1,3-Dichloropropane	0.78	U	3.9	0.40
108-67-8	1,3,5-Trimethylbenzene	0.78	U	3.9	0.44
78-93-3	2-Butanone (MEK)	7.8	U	16	1.4
106-46-7	1,4-Dichlorobenzene	0.78	U	3.9	0.60
78-87-5	1,2-Dichloropropane	0.78	U	3.9	0.43
594-20-7	2,2-Dichloropropane	0.78	U	3.9	0.34
591-78-6	2-Hexanone	7.8	U	16	3.8
108-10-1	4-Methyl-2-pentanone (MIBK)	7.8	U	16	3.4
99-87-6	4-Isopropyltoluene	1.0	J	3.9	0.38
71-43-2	Benzene	0.78	U	3.9	0.36
67-64-1	Acetone	17		16	4.2
108-86-1	Bromobenzene	0.78	U	3.9	0.38
75-25-2	Bromoform	0.78	U	3.9	0.18
74-83-9	Bromomethane	0.78	U	7.8	0.39
56-23-5	Carbon tetrachloride	0.78	U	3.9	0.49
75-15-0	Carbon disulfide	0.78	U	3.9	0.33
95-49-8	2-Chlorotoluene	0.78	U	3.9	0.40
106-43-4	4-Chlorotoluene	0.78	U	3.9	0.60
108-90-7	Chlorobenzene	0.78	U	3.9	0.42
74-97-5	Chlorobromomethane	0.78	U	3.9	0.23
124-48-1	Chlorodibromomethane	0.78	U	3.9	0.44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8

Matrix: Solid Lab File ID: G7615.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 11:30

Sample wt/vol: 5.838(g) Date Analyzed: 08/12/2010 15:42

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: 5.4 Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.78	U	7.8	0.22
75-00-3	Chloroethane	0.78	U	7.8	0.69
74-87-3	Chloromethane	0.78	U	7.8	0.60
156-59-2	cis-1,2-Dichloroethene	2.8	J	3.9	0.43
10061-01-5	cis-1,3-Dichloropropene	1.6	U	3.9	1.0
74-95-3	Dibromomethane	0.78	U	3.9	0.65
75-27-4	Dichlorobromomethane	0.78	U	3.9	0.17
75-71-8	Dichlorodifluoromethane	0.78	U	7.8	0.40
100-41-4	Ethylbenzene	0.78	U	3.9	0.52
87-68-3	Hexachlorobutadiene	0.78	U	3.9	0.43
98-82-8	Isopropylbenzene	0.78	U	3.9	0.46
106-93-4	Ethylene Dibromide	0.78	U	3.9	0.40
75-09-2	Methylene Chloride	0.78	U	3.9	0.58
1634-04-4	Methyl tert-butyl ether	0.78	U	16	0.26
179601-23-1	m-Xylene & p-Xylene	1.6	U	2.5	0.81
91-20-3	Naphthalene	0.78	U	3.9	0.49
104-51-8	n-Butylbenzene	0.78	U	3.9	0.43
103-65-1	N-Propylbenzene	0.78	U	3.9	0.45
95-47-6	o-Xylene	0.78	U	3.9	0.47
100-42-5	Styrene	0.78	U	3.9	0.49
135-98-8	sec-Butylbenzene	0.78	U	3.9	0.60
98-06-6	tert-Butylbenzene	0.78	U	3.9	0.39
156-60-5	trans-1,2-Dichloroethene	0.78	U	3.9	0.30
10061-02-6	trans-1,3-Dichloropropene	0.78	U	3.9	0.52
127-18-4	Tetrachloroethene	0.78	U	3.9	0.46
108-88-3	Toluene	0.78	U	3.9	0.54
79-01-6	Trichloroethene	0.78	U	3.9	0.18
75-69-4	Trichlorofluoromethane	1.6	U	7.8	0.81
75-01-4	Vinyl chloride	1.6	U	3.9	1.0
110-54-3	Hexane	3.9	U	3.9	0.53

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8
Matrix: Solid Lab File ID: G7615.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 11:30
Sample wt/vol: 5.838(g) Date Analyzed: 08/12/2010 15:42
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: 5.4 Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	99	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	102	85-120	
1868-53-7	Dibromofluoromethane (Surr)	91	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 280-6075-9

Matrix: WQ Lab File ID: H6947.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 00:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.16
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.18
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	0.81
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.14
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.14
78-93-3	2-Butanone (MEK)	3.2	U	6.0	1.8
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.13
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.20
591-78-6	2-Hexanone	3.2	U	5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	1.0
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.17
71-43-2	Benzene	0.20	U	1.0	0.16
67-64-1	Acetone	2.5	J	10	1.9
108-86-1	Bromobenzene	0.20	U	1.0	0.17
75-25-2	Bromoform	0.40	U	1.0	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.21
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.19
75-15-0	Carbon disulfide	0.80	U	2.0	0.45
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.17
108-90-7	Chlorobenzene	0.20	U	1.0	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 280-6075-9

Matrix: WQ Lab File ID: H6947.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 00:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.20	U	1.0	0.16
75-00-3	Chloroethane	1.6	U	2.0	0.41
74-87-3	Chloromethane	1.6	U	2.0	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.16
74-95-3	Dibromomethane	0.40	U	1.0	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.19
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.18
75-09-2	Methylene Chloride	0.42	J	5.0	0.32
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.19
100-42-5	Styrene	0.40	U	1.0	0.17
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.16
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.19
127-18-4	Tetrachloroethene	0.40	U	1.0	0.20
108-88-3	Toluene	0.40	U	1.0	0.17
79-01-6	Trichloroethene	0.20	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.40
110-54-3	Hexane	2.0	U	2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: TRIP BLANK Lab Sample ID: 280-6075-9
Matrix: WQ Lab File ID: H6947.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 00:00
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 13:49
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	113	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	109	75-120	
1868-53-7	Dibromofluoromethane (Surr)	110	85-115	

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112084

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26761/2	G7561.D
Level 2	IC 280-26761/3	G7562.D
Level 3	IC 280-26761/4	G7563.D
Level 4	IC 280-26761/5	G7564.D
Level 5	IC 280-26761/6	G7565.D
Level 6	IC 280-26761/7	G7566.D
Level 7	IC 280-26761/8	G7567.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 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.4441 0.3770	0.4083 0.4129	0.3955	0.3621	0.4016	Ave		0.4002				6.6		15.0			
Xylenes, Total	1.8011 1.4906	1.6208 1.5362	1.5827	1.4652	1.5783	Ave		1.5821				7.0		15.0			
Dichlorodifluoromethane	0.4762 0.4106	0.3995 0.4320	0.3711	0.3219	0.4451	Ave		0.4081				12.4		15.0			
Chloromethane	++++ 0.2949	0.3151 0.3156	0.3026	0.2707	0.3173	Ave		0.3027			0.1000	5.9		15.0			
Vinyl chloride	0.3577 0.2732	0.3123 0.2839	0.2811	0.2501	0.3029	Ave		0.2944				11.7		30.0			
Bromomethane	0.2572 0.2176	0.2345 0.2318	0.2104	0.1966	0.2377	Ave		0.2266				8.8		15.0			
Chloroethane	++++ 0.1387	0.1603 0.1429	0.1529	0.1416	0.1536	Ave		0.1483				5.7		15.0			
Trichlorofluoromethane	++++ 0.4732	0.5088 0.4953	0.4925	0.4515	0.5168	Ave		0.4897				4.9		15.0			
Ethanol	++++ 0.0072	++++ 0.0077	0.0072	0.0071	0.0078	Ave		0.0075				4.1		15.0			
Acrolein	++++ 0.0355	0.0410 0.0334	0.0345	0.0326	0.0372	Ave		0.0357				8.6		15.0			
Acetone	++++ 0.1561	0.1944 0.1652	0.1600	0.1508	0.1548	Ave		0.1636				9.7		15.0			
1,1-Dichloroethene	++++ 0.2804	0.2992 0.3151	0.2984	0.2730	0.3134	Ave		0.2966				5.7		30.0			
Iodomethane	0.7668 0.6536	0.6978 0.5224	0.6549	0.6181	0.7073	Ave		0.6601				11.7		15.0			
Acetonitrile	++++ 0.0700	0.0696 0.0765	0.0683	0.0667	0.0700	Ave		0.0702				4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112085

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

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 4	LVL 5		B	M1	M2								
2-Methyl-2-propanol	++++ 0.0532	0.0533 0.0609	0.0493	0.0513	0.0539	Ave		0.0537				7.3		15.0			
Methylene Chloride	++++ 0.5021	0.7512 0.5292	0.5989	0.5158	0.5217	Lin2	-0.049	0.4931							0.9963		0.9900
Acrylonitrile	0.1491 0.1646	0.1652 0.1743	0.1553	0.1552	0.1596	Ave		0.1605				5.2		15.0			
trans-1,2-Dichloroethene	0.4169 0.3436	0.3883 0.3811	0.3675	0.3373	0.3708	Ave		0.3722				7.3		15.0			
Isopropyl ether	0.3330 0.2930	0.3290 0.3159	0.3063	0.2950	0.3139	Ave		0.3123				4.9		15.0			
1,1-Dichloroethane	0.8592 0.6960	0.7787 0.7619	0.7467	0.6907	0.7537	Ave		0.7553			0.1000	7.5		15.0			
2-Chloro-1,3-butadiene	++++ 0.5169	0.5618 0.5809	0.5548	0.5124	0.5703	Ave		0.5495				5.2		15.0			
2-Butanone (MEK)	0.2603 0.2749	0.2685 0.2985	0.2576	0.2567	0.2641	Ave		0.2687				5.5		15.0			
cis-1,2-Dichloroethene	0.4713 0.4105	0.4283 0.4448	0.4235	0.3869	0.4324	Ave		0.4282				6.2		15.0			
Propionitrile	++++ 0.0655	0.0640 0.0697	0.0629	0.0615	0.0658	Ave		0.0649				4.4		15.0			
2,2-Dichloropropane	++++ 0.3957	0.4643 0.4174	0.4505	0.3930	0.4455	Ave		0.4277				7.0		15.0			
Methacrylonitrile	0.3138 0.3317	0.3457 0.3223	0.3238	0.3157	0.3338	Ave		0.3267				3.4		15.0			
Chlorobromomethane	0.2732 0.2565	0.2649 0.2777	0.2463	0.2322	0.2585	Ave		0.2585				6.1		15.0			
Chloroform	0.9145 0.8003	0.8642 0.8802	0.8130	0.7588	0.8414	Ave		0.8389				6.3		30.0			
Isobutyl alcohol	++++ 0.0202	0.0193 0.0216	0.0174	0.0179	0.0192	Ave		0.0193				7.9		15.0			
1,1,1-Trichloroethane	++++ 0.4557	0.5143 0.5009	0.4815	0.4427	0.4956	Ave		0.4818				5.7		15.0			
1,1-Dichloropropene	++++ 0.5425	0.6186 0.6072	0.5856	0.5292	0.5935	Ave		0.5794				6.2		15.0			
Carbon tetrachloride	0.5224 0.4220	0.4514 0.4781	0.4413	0.4033	0.4549	Ave		0.4533				8.6		15.0			
1,2-Dichloroethane	0.6146 0.5577	0.6216 0.5646	0.5738	0.5367	0.5900	Ave		0.5799				5.3		15.0			
Benzene	1.9210 1.5556	1.7758 1.6366	1.6707	1.5370	1.6860	Ave		1.6833				7.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112086

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

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 4	LVL 5		B	M1	M2								
n-Butanol	++++ 0.0158	0.0160 0.0172	0.0146	0.0144	0.0156	Ave		0.0156				6.6		15.0			
Trichloroethene	0.4532 0.3813	0.4132 0.4244	0.4025	0.3626	0.4120	Ave		0.4071				7.2		15.0			
1,2-Dichloropropane	0.4790 0.4388	0.4740 0.4748	0.4579	0.4166	0.4720	Ave		0.4590				5.1		30.0			
1,4-Dioxane	++++ 0.0067	++++ 0.0070	0.0056	0.0058	0.0070	Ave		0.0064				10.3		15.0			
Dibromomethane	0.3322 0.3498	0.3633 0.3851	0.3382	0.3197	0.3521	Ave		0.3486				6.2		15.0			
Dichlorobromomethane	0.6668 0.6663	0.6642 0.7472	0.6452	0.5947	0.6921	Ave		0.6681				6.9		15.0			
cis-1,3-Dichloropropene	0.7569 0.7993	0.7767 0.8812	0.7517	0.7182	0.8281	Ave		0.7874				6.9		15.0			
4-Methyl-2-pentanone (MIBK)	0.4747 0.5561	0.5531 0.5882	0.5093	0.5160	0.5518	Ave		0.5356				7.0		15.0			
Toluene	1.7355 1.4969	1.5931 1.6382	1.5496	1.3971	1.5879	Ave		1.5712				6.8		30.0			
trans-1,3-Dichloropropene	0.6626 0.7518	0.7376 0.8237	0.6828	0.6639	0.7655	Ave		0.7268				8.3		15.0			
1,1,2-Trichloroethane	0.3452 0.3761	0.3739 0.4079	0.3589	0.3467	0.3853	Ave		0.3706				6.0		15.0			
2-Hexanone	1.0402 1.1664	1.0794 1.1783	1.0070	1.0813	1.0780	Ave		1.0901				5.7		15.0			
1,3-Dichloropropane	2.2799 2.1989	2.1995 2.2658	2.1068	2.0704	2.1764	Ave		2.1854				3.5		15.0			
Tetrachloroethene	0.9737 0.7683	0.8234 0.8246	0.8042	0.7412	0.8000	Ave		0.8193				9.1		15.0			
Chlorodibromomethane	1.4143 1.5032	1.3617 1.6117	1.3140	1.3182	1.4331	Ave		1.4223				7.5		15.0			
Ethylene Dibromide	1.1759 1.2609	1.1722 1.3366	1.1350	1.1466	1.2076	Ave		1.2050				5.9		15.0			
1-Chlorohexane	++++ 1.5703	1.6285 1.6620	1.6500	1.5061	1.6267	Ave		1.6073				3.7		15.0			
Chlorobenzene	3.0032 2.6410	2.8072 2.7994	2.6717	2.5030	2.6833	Ave		2.7298			0.3000	5.8		15.0			
1,1,1,2-Tetrachloroethane	1.2095 1.1527	1.1337 1.2172	1.1113	1.0215	1.1796	Ave		1.1465				5.9		15.0			
Ethylbenzene	1.5165 1.2067	1.5167 1.2484	1.2797	1.1382	1.2937	Ave		1.2857				9.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112087

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

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 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	1.8215 1.4964	1.6308 1.5536	1.5884	1.4568	1.5869	Ave		1.5906				7.4		15.0			
o-Xylene	1.7603 1.4790	1.6007 1.5013	1.5712	1.4820	1.5611	Ave		1.5651				6.3		15.0			
Styrene	2.8864 2.7028	2.7411 2.7237	2.6485	2.6019	2.7859	Ave		2.7272				3.4		15.0			
Bromoform	0.7168 0.8901	0.7476 0.9710	0.7492	0.7494	0.8358	Ave		0.8086			0.1000	11.6		15.0			
Isopropylbenzene	2.5619 2.0326	2.2362 2.2918	2.2370	2.0597	2.2721	Ave		2.2416				7.8		15.0			
Cyclohexanone	0.0514 0.0575	0.0552 0.0596	0.0521	0.0542	0.0571	Ave		0.0553				5.4		15.0			
1,1,2,2-Tetrachloroethane	1.0726 1.0330	1.0709 1.1579	1.0427	1.0019	1.0492	Ave		1.0612			0.3000	4.6		15.0			
1,2,3-Trichloropropane	0.1901 0.2127	0.2251 0.2414	0.2156	0.2116	0.2162	Ave		0.2161				7.1		15.0			
Bromobenzene	0.7984 0.7278	0.7532 0.8229	0.7408	0.7066	0.7640	Ave		0.7591				5.3		15.0			
N-Propylbenzene	++++ 0.5730	0.6605 0.6360	0.6563	0.5964	0.6410	Ave		0.6272				5.6		15.0			
1,3,5-Trimethylbenzene	++++ 1.7271	1.9188 1.9185	1.9463	1.7847	1.9601	Ave		1.8759				5.1		15.0			
2-Chlorotoluene	++++ 0.5880	0.6550 0.6407	0.6544	0.5948	0.6508	Ave		0.6306				4.9		15.0			
4-Chlorotoluene	0.7392 0.6199	0.6714 0.6874	0.6806	0.6112	0.6761	Ave		0.6694				6.5		15.0			
tert-Butylbenzene	++++ 1.7049	1.9327 1.9195	1.9375	1.7286	1.8958	Ave		1.8532				5.8		15.0			
1,2,4-Trimethylbenzene	2.2554 1.8385	2.0179 2.0505	1.9983	1.8362	1.9985	Ave		1.9993				7.1		15.0			
sec-Butylbenzene	++++ 2.2520	2.6017 2.5188	2.5778	2.3077	2.4979	Ave		2.4593				5.9		15.0			
4-Isopropyltoluene	++++ 1.9062	2.1817 2.1303	2.1382	1.9160	2.0903	Ave		2.0604				5.8		15.0			
1,3-Dichlorobenzene	1.6114 1.3698	1.4617 1.5036	1.4260	1.2857	1.4306	Ave		1.4412				7.1		15.0			
1,4-Dichlorobenzene	1.6330 1.4076	1.5040 1.5544	1.4658	1.3112	1.4676	Ave		1.4776				7.0		15.0			
n-Butylbenzene	++++ 2.1388	2.3798 2.3739	2.4075	2.1186	2.3645	Ave		2.2972				5.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112088

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

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 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.4861 1.3632	1.4197 1.4810	1.3699	1.2704	1.3859	Ave		1.3966				5.4		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1870	0.1641 0.2043	0.1604	0.1629	0.1770	Ave		0.1760				9.8		15.0			
1,2,4-Trichlorobenzene	0.8001 0.7268	0.7569 0.7570	0.7410	0.6688	0.7746	Ave		0.7465				5.6		15.0			
Hexachlorobutadiene	+++++ 0.3919	0.4369 0.4251	0.4239	0.3625	0.4354	Ave		0.4126				7.1		15.0			
Naphthalene	+++++ 2.2685	2.2455 2.3828	2.1680	2.0442	2.3452	Ave		2.2424				5.5		15.0			
1,2,3-Trichlorobenzene	+++++ 0.6878	0.7087 0.7279	0.7064	0.6403	0.7202	Ave		0.6985				4.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112089

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26761/2	G7561.D
Level 2	IC 280-26761/3	G7562.D
Level 3	IC 280-26761/4	G7563.D
Level 4	IC 280-26761/5	G7564.D
Level 5	IC 280-26761/6	G7565.D
Level 6	IC 280-26761/7	G7566.D
Level 7	IC 280-26761/8	G7567.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	50575 2116179	105553 4315648	212073	403832	1078720	4.00 200	10.0 400	20.0	40.0	100
Xylenes, Total	CBZ	Ave	102648 4427287	230451 8754112	458945	858608	2357857	6.00 300	15.0 600	30.0	60.0	150
Dichlorodifluoromethane	FB	Ave	27115 1152200	51638 2257338	99511	179523	597739	2.00 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	++++ 827585	40732 1648938	81146	150951	426124	++++ 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	20368 766638	40368 1483557	75367	139445	406802	2.00 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	14647 610639	30313 1211491	56423	109656	319297	2.00 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	++++ 389302	20714 746548	41008	78969	206314	++++ 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	++++ 1328056	65756 2587924	132062	251801	694100	++++ 100	5.00 200	10.0	20.0	50.0
Ethanol	FB	Ave	++++ 1015785	++++ 2008941	97035	198722	524322	++++ 5000	++++ 10000	500	1000	2500
Acrolein	FB	Ave	++++ 996778	53047 1745067	92620	181668	499822	++++ 1000	50.0 2000	100	200	500
Acetone	FB	Ave	++++ 1752692	100480 3453725	171579	336463	831708	++++ 400	20.0 800	40.0	80.0	200
1,1-Dichloroethene	FB	Ave	++++ 787008	38666 1646414	80016	152229	420891	++++ 100	5.00 200	10.0	20.0	50.0
Iodomethane	FB	Ave	43665 1834313	90190 2729767	175591	344713	949873	2.00 100	5.00 200	10.0	20.0	50.0
Acetonitrile	FB	Ave	++++ 1963265	89946 3997033	183200	371734	940530	++++ 1000	50.0 2000	100	200	500
2-Methyl-2-propanol	FB	Ave	++++ 2988030	137887 6361416	264616	572000	1448651	++++ 2000	100 4000	200	400	1000

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112090

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin2	++++ 1409192	97092 2765423	160596	287630	700617	++++ 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	84907 4618010	213513 9107736	416431	865473	2143634	20.0 1000	50.0 2000	100	200	500
trans-1,2-Dichloroethene	FB	Ave	23738 964302	50191 1991220	98530	188093	498047	2.00 100	5.00 200	10.0	20.0	50.0
Isopropyl ether	FB	Ave	94816 4111722	212614 8253816	410645	822531	2107807	10.0 500	25.0 1000	50.0	100	250
1,1-Dichloroethane	FB	Ave	48927 1953240	100646 3981223	200206	385194	1012194	2.00 100	5.00 200	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	++++ 1450601	72606 3035604	148772	285723	765957	++++ 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	59299 3085347	138810 6239860	276314	572499	1418680	8.00 400	20.0 800	40.0	80.0	200
cis-1,2-Dichloroethene	FB	Ave	26837 1151877	55362 2324428	113543	215739	580673	2.00 100	5.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	++++ 1838831	82718 3640310	168557	343227	883087	++++ 1000	50.0 2000	100	200	500
2,2-Dichloropropane	FB	Ave	++++ 1110385	60016 2180924	120785	219152	598336	++++ 100	5.00 200	10.0	20.0	50.0
Methacrylonitrile	FB	Ave	178694 9309913	446748 16842135	868136	1760277	4482771	20.0 1000	50.0 2000	100	200	500
Chlorobromomethane	FB	Ave	15554 719870	34239 1450948	66045	129466	347203	2.00 100	5.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	52073 2245982	111693 4599231	217989	423130	1130073	2.00 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	++++ 1132308	49882 2253314	93166	199724	516140	++++ 2000	100 4000	200	400	1000
1,1,1-Trichloroethane	FB	Ave	++++ 1278911	66476 2617479	129098	246853	665617	++++ 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	++++ 1522464	79959 3172808	157018	295109	797059	++++ 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	29745 1184154	58348 2498181	118339	224883	610888	2.00 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	34997 1565176	80338 2950072	153858	299297	792367	2.00 100	5.00 200	10.0	20.0	50.0
Benzene	FB	Ave	109390 4365658	229515 8551890	447975	857140	2264378	2.00 100	5.00 200	10.0	20.0	50.0
n-Butanol	FB	Ave	++++ 1329269	62057 2697949	117384	240652	628691	++++ 3000	150 6000	300	600	1500
Trichloroethene	FB	Ave	25808 1070167	53402 2217911	107932	202235	553329	2.00 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112091

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	27273 1231546	61262 2480836	122778	232305	633925	2.00 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	FB	Ave	++++ 936653	++++ 1836680	75523	161988	469865	++++ 5000	++++ 10000	500	1000	2500
Dibromomethane	FB	Ave	18916 981734	46954 2012072	90691	178297	472858	2.00 100	5.00 200	10.0	20.0	50.0
Dichlorobromomethane	FB	Ave	37972 1869933	85850 3904384	172991	331615	929571	2.00 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	43102 2243104	100382 4604727	201548	400489	1112127	2.00 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	108133 6242027	285937 12293780	546272	1151011	2964260	8.00 400	20.0 800	40.0	80.0	200
Toluene	FB	Ave	98822 4200895	205908 8560531	415504	779101	2132671	2.00 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	FB	Ave	37728 2109738	95332 4304127	183073	370211	1028119	2.00 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	FB	Ave	19659 1055417	48329 2131408	96224	193327	517444	2.00 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBZ	Ave	79045 4619116	204624 8952759	389322	844812	2147316	8.00 400	20.0 800	40.0	80.0	200
1,3-Dichloropropane	CBZ	Ave	43312 2176967	104243 4303993	203639	404403	1083788	2.00 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBZ	Ave	18497 760684	39025 1566379	77728	144770	398366	2.00 100	5.00 200	10.0	20.0	50.0
Chlorodibromomethane	CBZ	Ave	26869 1488217	64537 3061585	127007	257486	713648	2.00 100	5.00 200	10.0	20.0	50.0
Ethylene Dibromide	CBZ	Ave	22339 1248370	55555 2538976	109705	223963	601338	2.00 100	5.00 200	10.0	20.0	50.0
1-Chlorohexane	CBZ	Ave	++++ 1554636	77181 3157065	159487	294179	810053	++++ 100	5.00 200	10.0	20.0	50.0
Chlorobenzene	CBZ	Ave	57053 2614680	133045 5317519	258241	488905	1336237	2.00 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	22977 1141246	53730 2312074	107412	199520	587394	2.00 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBZ	Ave	28810 1194715	62404 2371407	123691	222331	644209	2.00 100	5.00 200	10.0	20.0	50.0
m-Xylene & p-Xylene	CBZ	Ave	69207 2963041	154585 5902237	307072	569128	1580486	4.00 200	10.0 400	20.0	40.0	100
o-Xylene	CBZ	Ave	33441 1464246	75866 2851875	151873	289480	777371	2.00 100	5.00 200	10.0	20.0	50.0
Styrene	CBZ	Ave	54835 2675837	129915 5173844	255995	508219	1387288	2.00 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112092

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	13617 881245	35434 1844484	72414	146385	416209	2.00 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCB	Ave	86474 3662588	185412 7541590	375267	716787	1967767	2.00 100	5.00 200	10.0	20.0	50.0
Cyclohexanone	CBZ	Ave	39093 2279001	104555 4529061	201542	423493	1136801	80.0 4000	200 8000	400	800	2000
1,1,2,2-Tetrachloroethane	DCB	Ave	36203 1861460	88797 3810307	174911	348659	908660	2.00 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCB	Ave	6416 383247	18661 794389	36160	73636	187238	2.00 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCB	Ave	26948 1311508	62455 2707824	124275	245899	661638	2.00 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCB	Ave	++++ 1032589	54769 2092941	110092	207540	555155	++++ 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	++++ 3112208	159097 6313319	326498	621096	1697548	++++ 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCB	Ave	++++ 1059473	54313 2108212	109773	206984	563612	++++ 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCB	Ave	24952 1117058	55671 2261938	114171	212712	585563	2.00 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCB	Ave	++++ 3072165	160247 6316421	325018	601555	1641878	++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	76129 3312793	167317 6747470	335229	639009	1730822	2.00 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCB	Ave	++++ 4057967	215721 8288552	432436	803077	2163375	++++ 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCB	Ave	++++ 3434803	180898 7010056	358682	666782	1810347	++++ 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCB	Ave	54390 2468297	121195 4947932	239222	447421	1238958	2.00 100	5.00 200	10.0	20.0	50.0
1,4-Dichlorobenzene	DCB	Ave	55119 2536367	124700 5115066	245900	456304	1271056	2.00 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCB	Ave	++++ 3854062	197322 7811742	403862	737275	2047816	++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCB	Ave	50162 2456355	117715 4873699	229806	442092	1200326	2.00 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	++++ 336899	13609 672453	26901	56678	153322	++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	27006 1309737	62757 2490962	124308	232745	670869	2.00 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCB	Ave	++++ 706186	36226 1398817	71112	126158	377077	++++ 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112093

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26761

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2010 12:26 Calibration End Date: 08/11/2010 14:46 Calibration ID: 2508

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	+++++ 4087765	186187 7841095	363685	711377	2031109	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 1239364	58763 2395263	118502	222825	623744	+++++ 100	5.00 200	10.0	20.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112094

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26762

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/12/2010 09:22 Calibration End Date: 08/12/2010 11:40 Calibration ID: 2509

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26762/3	G7600.D
Level 2	IC 280-26762/4	G7601.D
Level 3	IC 280-26762/5	G7602.D
Level 4	IC 280-26762/6	G7603.D
Level 5	ICIS 280-26762/7	G7604.D
Level 6	IC 280-26762/8	G7605.D
Level 7	IC 280-26762/9	G7606.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 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	++++ 0.2663	0.2714 0.2685	0.2430	0.2332	0.2757	Ave		0.2597				6.7		15.0			
Ethylene oxide	++++ 0.0519	0.0607 ++++	0.0541	0.0494	0.0543	Ave		0.0541				7.8		15.0			
Dichlorofluoromethane	++++ 0.4981	0.5439 0.4772	0.5239	0.4626	0.4906	Ave		0.4994				6.0		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3053 0.2583	0.3133 0.2526	0.2919	0.2641	0.2813	Ave		0.2810				8.4		15.0			
Ethyl ether	++++ 0.3199	0.3381 0.2991	0.3314	0.3237	0.3370	Ave		0.3249				4.5		15.0			
Acrolein	++++ 0.0912	0.0861 0.0795	0.0823	0.0938	0.0875	Ave		0.0867				6.2		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2282 0.2076	0.2300 0.1940	0.2234	0.2088	0.2241	Ave		0.2166				6.2		15.0			
Isopropyl alcohol	++++ 0.0404	0.0406 0.0355	0.0354	0.0432	0.0382	Ave		0.0389				8.0		15.0			
Methyl acetate	++++ 0.4275	0.4393 0.3945	0.3934	0.4561	0.4182	Ave		0.4215				5.9		15.0			
Allyl chloride	++++ 0.5726	++++ 0.5579	0.6288	0.5985	0.6408	Ave		0.5997				5.9		15.0			
Carbon disulfide	1.7928 1.4215	1.6389 1.3886	1.5023	1.3770	1.5297	Ave		1.5215				9.9		15.0			
Methyl tert-butyl ether	++++ 1.2265	1.2846 1.1982	1.2277	1.2611	1.2738	Ave		1.2453				2.7		15.0			
Hexane	1.5755 1.2243	1.3913 1.0905	1.2919	1.2155	1.3500	Ave		1.3056				11.8		15.0			
Vinyl acetate	++++ 1.0695	1.0446 0.8554	0.9879	1.0906	0.9799	Ave		1.0047				8.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112095

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26762

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/12/2010 09:22 Calibration End Date: 08/12/2010 11:40 Calibration ID: 2509

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 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	++++ 1.1658	1.3116 ++++	1.2602	1.2724	1.2795	Ave		1.2579				4.4		15.0			
Ethyl acetate	++++ 0.5817	0.5749 0.5292	0.5440	0.6119	0.5447	Ave		0.5644				5.4		15.0			
Tetrahydrofuran	++++ 0.1732	0.1683 0.1533	0.1547	0.1806	0.1513	Ave		0.1636				7.4		15.0			
Cyclohexane	0.6293 0.4964	0.5809 0.4626	0.5647	0.5128	0.5530	Ave		0.5428				10.4		15.0			
Tert-amyl methyl ether	++++ 1.2048	1.3043 ++++	1.2711	1.3179	1.3067	Ave		1.2810				3.6		15.0			
2-Pentanone	++++ 0.4729	0.4533 0.4239	0.4210	0.4974	0.4397	Ave		0.4514				6.6		15.0			
Methyl methacrylate	++++ 0.1135	0.1114 0.1065	0.1045	0.1173	0.1109	Ave		0.1107				4.2		15.0			
Methylcyclohexane	++++ 0.5560	0.6558 0.5110	0.6263	0.5737	0.6267	Ave		0.5916				9.1		15.0			
2-Chloroethyl vinyl ether	++++ 0.3164	0.3000 0.2845	0.3009	0.3238	0.3066	Ave		0.3054				4.5		15.0			
2-Nitropropane	++++ 0.1349	0.1227 0.1221	0.1192	0.1278	0.1255	Ave		0.1254				4.4		15.0			
Ethyl methacrylate	++++ 0.6497	0.6258 0.5995	0.6136	0.6660	0.6545	Ave		0.6348				4.1		15.0			
Tetrahydrothiophene	++++ 0.8409	0.7604 0.7649	0.7514	0.8582	0.8193	Ave		0.7992				5.8		15.0			
cis-1,4-Dichloro-2-butene	++++ 0.1283	0.1158 0.1164	0.1107	0.1152	0.1217	Ave		0.1180				5.2		15.0			
trans-1,4-Dichloro-2-butene	++++ 0.1926	0.1883 0.1767	0.1653	0.1882	0.1843	Ave		0.1826				5.5		15.0			
1,2,3-Trimethylbenzene	++++ 1.7761	2.0062 1.4970	1.8782	1.8341	1.9505	Ave		1.8237				9.9		15.0			
Dibromofluoromethane (Surr)	++++ 0.3977	++++ 0.4041	0.4435	0.4433	0.4455	Ave		0.4268				5.6		15.0			
1,2-Dichloroethane-d4 (Surr)	++++ 0.4872	++++ 0.4859	0.5320	0.5484	0.5337	Ave		0.5174				5.6		15.0			
Toluene-d8 (Surr)	++++ 2.8616	3.4878 2.8104	3.3311	3.1947	3.2633	Ave		3.1582				8.5		15.0			
4-Bromofluorobenzene (Surr)	++++ 0.7658	0.9337 0.6966	0.8697	0.8342	0.8530	Ave		0.8255				10.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112096

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26762

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/12/2010 09:22 Calibration End Date: 08/12/2010 11:40 Calibration ID: 2509

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26762/3	G7600.D
Level 2	IC 280-26762/4	G7601.D
Level 3	IC 280-26762/5	G7602.D
Level 4	IC 280-26762/6	G7603.D
Level 5	ICIS 280-26762/7	G7604.D
Level 6	IC 280-26762/8	G7605.D
Level 7	IC 280-26762/9	G7606.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	++++ 742406	37250 1396437	66075	125950	363021	++++ 100	5.00 200	10.0	20.0	50.0
Ethylene oxide	FB	Ave	++++ 18082962	1041465 ++++	1838978	3333092	8942415	++++ 12500	625 ++++	1250	2500	6250
Dichlorofluoromethane	FB	Ave	++++ 1388664	74660 2481881	142453	249801	645963	++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	17243 720174	43003 1313777	79380	142635	370339	2.00 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	++++ 891790	46404 1555424	90099	174822	443760	++++ 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	++++ 2542085	118227 4133751	223801	506519	1151779	++++ 1000	50.0 2000	100	200	500
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	12888 578794	31566 1008925	60753	112760	295030	2.00 100	5.00 200	10.0	20.0	50.0
Isopropyl alcohol	FB	Ave	++++ 2253729	111419 3694430	192624	466998	1005118	++++ 2000	100 4000	200	400	1000
Methyl acetate	FB	Ave	++++ 5959097	301517 10259795	534915	1231502	2753018	++++ 500	25.0 1000	50.0	100	250
Allyl chloride	FB	Ave	++++ 1596391	++++ 2901540	170980	323169	843736	++++ 100	++++ 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	101249 3963034	224965 7221889	408491	743602	2013966	2.00 100	5.00 200	10.0	20.0	50.0
Methyl tert-butyl ether	FB	Ave	++++ 3419401	176335 6231711	333837	681022	1677058	++++ 100	5.00 200	10.0	20.0	50.0
Hexane	CBZ	Ave	31576 1218503	69971 2053714	127636	235851	630961	2.00 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	++++ 5963653	286781 8897316	537256	1177892	2580433	++++ 200	10.0 400	20.0	40.0	100
Tert-butyl ethyl ether	FB	Ave	++++ 16250974	900164 ++++	1713357	3435557	8422891	++++ 500	25.0 ++++	50.0	100	250

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112097

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26762

SDG No.: _____

Instrument ID: MSV_G GC Column: DB-624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/12/2010 09:22 Calibration End Date: 08/12/2010 11:40 Calibration ID: 2509

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethyl acetate	FB	Ave	++++ 3243365	157837 5505015	295864	660865	1434384	++++ 200	10.0 400	20.0	40.0	100
Tetrahydrofuran	FB	Ave	++++ 965854	46194 1594635	84122	195037	398318	++++ 200	10.0 400	20.0	40.0	100
Cyclohexane	FB	Ave	35537 1383823	79733 2406002	153536	276922	728067	2.00 100	5.00 200	10.0	20.0	50.0
Tert-amyl methyl ether	FB	Ave	++++ 16794935	895146 ++++	1728137	3558404	8602237	++++ 500	25.0 ++++	50.0	100	250
2-Pentanone	FB	Ave	++++ 5273719	248884 8818293	457932	1074337	2315622	++++ 400	20.0 800	40.0	80.0	200
Methyl methacrylate	FB	Ave	++++ 633024	30590 1107282	56847	126714	291912	++++ 200	10.0 400	20.0	40.0	100
Methylcyclohexane	FB	Ave	++++ 1550105	90015 2657775	170301	309779	825152	++++ 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 881981	41176 1479523	81822	174850	403681	++++ 100	5.00 200	10.0	20.0	50.0
2-Nitropropane	FB	Ave	++++ 376083	16839 634971	32425	69038	165215	++++ 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	FB	Ave	++++ 3622388	171789 6236246	333678	719271	1723503	++++ 200	10.0 400	20.0	40.0	100
Tetrahydrothiophene	CBZ	Ave	++++ 836951	38241 1440508	74236	166526	382914	++++ 100	5.00 200	10.0	20.0	50.0
cis-1,4-Dichloro-2-butene	DCB	Ave	++++ 216850	9843 380365	18593	39241	100692	++++ 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	++++ 325652	16008 577422	27767	64124	152526	++++ 100	5.00 200	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCB	Ave	++++ 3002622	170577 4892872	315485	624915	1614323	++++ 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	++++ 1108808	++++ 2101729	120601	239374	586617	++++ 100	++++ 200	10.0	20.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	++++ 1358364	++++ 2527195	144648	296145	702635	++++ 100	++++ 200	10.0	20.0	50.0
Toluene-d8 (Surr)	CBZ	Ave	++++ 2848177	175407 5292716	329099	619904	1525164	++++ 100	5.00 200	10.0	20.0	50.0
4-Bromofluorobenzene (Surr)	DCB	Ave	++++ 1294664	79388 2276787	146081	284246	705966	++++ 100	5.00 200	10.0	20.0	50.0

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112098

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26333/2	H6885.D
Level 2	IC 280-26333/3	H6886.D
Level 3	IC 280-26333/4	H6887.D
Level 4	IC 280-26333/5	H6888.D
Level 5	IC 280-26333/6	H6889.D
Level 6	IC 280-26333/7	H6890.D
Level 7	IC 280-26333/8	H6891.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 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.2627 0.2815	0.2735 0.2723	0.2642	0.2798	0.2822	Ave		0.2738				2.9					
Xylenes, Total	1.7659 2.2066	2.0299 2.0804	1.8973	2.1705	2.2045	Ave		2.0507				8.2					
Dichlorodifluoromethane	0.3986 0.4063	0.3487 0.4047	0.3023	0.4144	0.4226	Ave		0.3854				11.3					
Chloromethane	0.2101 0.2052	0.1957 0.2052	0.1678	0.2109	0.2144	Ave		0.2013				7.9					
Vinyl chloride	0.2137 0.2200	0.2073 0.2197	0.1973	0.2255	0.2258	Ave		0.2156				4.8					
Bromomethane	0.2137 0.2091	0.2035 0.2049	0.1930	0.2123	0.2139	Ave		0.2072				3.6					
Chloroethane	0.1424 0.1430	0.1464 0.1386	0.1364	0.1490	0.1476	Ave		0.1433				3.2					
Trichlorofluoromethane	0.6085 0.6480	0.6474 0.6196	0.6095	0.6692	0.6818	Ave		0.6406				4.5					
Acrolein	++++ 0.0063	0.0045 0.0063	0.0050	0.0060	0.0059	Ave		0.0057				13.4					
1,1-Dichloroethene	0.2265 0.2306	0.2355 0.2194	0.2207	0.2363	0.2294	Ave		0.2284				2.9					
Acetone	++++ 0.0141	++++ 0.0146	0.0140	0.0159	0.0153	Ave		0.0148				5.5					
Iodomethane	0.3842 0.4553	0.4091 0.4404	0.4045	0.4541	0.4568	Ave		0.4292				6.9					
Methylene Chloride	++++ 0.1795	++++ 0.1736	0.1888	0.1917	0.1862	Ave		0.1840				4.0					
2-Methyl-2-propanol	++++ 0.0033	0.0038 0.0029	0.0036	0.0037	0.0038	Ave		0.0035				9.2					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112099

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

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 4	LVL 5		B	M1	M2								
n-Butanol	++++ ++++	++++ ++++	++++	++++	++++	Ave											
Acrylonitrile	++++ 0.0133	++++ 0.0131	0.0122	0.0122	0.0126	Ave		0.0127				4.2					
trans-1,2-Dichloroethene	0.2844 0.2885	0.2873 0.2804	0.2732	0.2890	0.2866	Ave		0.2842				2.0					
2-Butanone (MEK)	++++ 0.0276	++++ 0.0287	0.0204	0.0231	0.0243	Lin2	0.1002	0.0267						0.9924			
1,1-Dichloroethane	0.5042 0.5252	0.4947 0.5051	0.4890	0.5233	0.5257	Ave		0.5096				3.0					
Isopropyl ether	0.1522 0.1707	0.1591 0.1627	0.1578	0.1709	0.1742	Ave		0.1639				5.0					
2-Chloro-1,3-butadiene	0.4856 0.5430	0.4637 0.5073	0.5092	0.5145	0.5292	Ave		0.5075				5.2					
cis-1,2-Dichloroethene	0.2411 0.2744	0.2598 0.2643	0.2552	0.2706	0.2777	Ave		0.2633				4.8					
2,2-Dichloropropane	0.5419 0.4316	0.4579 0.3908	0.4287	0.4296	0.4403	Ave		0.4459				10.5					
Methacrylonitrile	0.0141 0.0416	0.0250 0.0404	0.0303	0.0362	0.0390	Lin2	0.1665	0.0386						0.9903			
1,4-Dioxane	++++ 0.0007	++++ 0.0006	0.0002	0.0006	0.0006	Lin2	4.9724	0.0007						0.9955			
Chlorobromomethane	0.0875 0.1068	0.0925 0.1018	0.0940	0.1042	0.1052	Ave		0.0989				7.6					
Chloroform	0.5834 0.5408	0.5363 0.5168	0.5120	0.5372	0.5489	Ave		0.5393				4.4					
1,1,1-Trichloroethane	0.6660 0.6349	0.6328 0.5989	0.6090	0.6327	0.6320	Ave		0.6295				3.4					
1,1-Dichloropropene	0.4284 0.4623	0.4486 0.4340	0.4320	0.4635	0.4642	Ave		0.4476				3.6					
Carbon tetrachloride	0.5363 0.6013	0.5840 0.5686	0.5567	0.5986	0.6033	Ave		0.5784				4.4					
Benzene	0.7111 0.7679	0.7319 0.7324	0.7002	0.7614	0.7743	Ave		0.7399				3.9					
1,2-Dichloroethane	0.2186 0.2292	0.2163 0.2155	0.2160	0.2346	0.2296	Ave		0.2228				3.6					
Trichloroethene	0.3000 0.3855	0.3410 0.3716	0.3288	0.3736	0.3821	Ave		0.3547				9.1					
1,2-Dichloropropane	0.2348 0.2582	0.2493 0.2513	0.2324	0.2619	0.2579	Ave		0.2494				4.7					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112100

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

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 4	LVL 5		B	M1	M2								
Dibromomethane	0.1250 0.1395	0.1316 0.1327	0.1314	0.1388	0.1383	Ave		0.1339				3.9					
Dichlorobromomethane	0.4818 0.4491	0.4431 0.4317	0.4222	0.4471	0.4501	Ave		0.4465				4.2					
cis-1,3-Dichloropropene	0.2922 0.3319	0.2974 0.3204	0.2966	0.3241	0.3288	Ave		0.3131				5.4					
2-Hexanone	++++ 0.2724	0.2163 0.2804	0.1611	0.2190	0.2518	Lin1	0.1680	0.2786							0.9974		
4-Methyl-2-pentanone (MIBK)	++++ 0.0878	++++ 0.0886	0.0615	0.0897	0.0849	Ave		0.0825				14.4					
Toluene	0.9456 0.9517	0.9154 0.9031	0.8892	0.9386	0.9553	Ave		0.9284				2.8					
trans-1,3-Dichloropropene	++++ 0.2333	0.1953 0.2213	0.2017	0.2163	0.2275	Ave		0.2159				6.8					
1,1,2-Trichloroethane	++++ 0.1370	0.1555 0.1309	0.1422	0.1359	0.1338	Ave		0.1392				6.3					
Tetrachloroethene	1.2916 1.7117	1.5330 1.6316	1.4975	1.6816	1.7068	Ave		1.5791				9.6					
1,3-Dichloropropane	0.9121 1.1408	0.9969 1.0703	1.0142	1.1487	1.1363	Ave		1.0599				8.5					
Chlorodibromomethane	0.9869 1.3497	1.2124 1.3094	1.1942	1.3268	1.3282	Ave		1.2440				10.3					
Ethylene Dibromide	0.6813 0.9494	0.7769 0.9015	0.7830	0.9222	0.9255	Ave		0.8485				12.0					
1-Chlorohexane	2.4825 2.5046	2.4142 2.4032	2.2975	2.5186	2.4774	Ave		2.4426				3.2					
Chlorobenzene	2.6238 3.2181	2.9259 3.0736	2.8312	3.2052	3.2260	Ave		3.0148				7.7					
1,1,1,2-Tetrachloroethane	1.0160 1.4434	1.3276 1.3885	1.2436	1.4515	1.4516	Ave		1.3317				11.9					
Ethylbenzene	1.3472 1.7290	1.5379 1.6829	1.4888	1.7131	1.7526	Ave		1.6074				9.5					
1,2,3-Trichloropropane	++++ 0.1465	0.1336 0.1427	0.1317	0.1420	0.1421	Ave		0.1398				4.1					
m-Xylene & p-Xylene	1.8677 2.3147	2.1212 2.1738	1.9549	2.2834	2.3111	Ave		2.1467				8.3					
o-Xylene	1.5622 1.9905	1.8474 1.8936	1.7820	1.9447	1.9914	Ave		1.8588				8.1					
Styrene	1.1558 2.8404	2.2311 2.7789	2.3253	2.5736	2.6319	Lin2	0.0141	2.7188							0.9985		

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112101

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

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 4	LVL 5		B	M1	M2								
Bromoform	0.4436 0.7710	0.5883 0.7303	0.6263	0.7299	0.7455	Lin2	0.0102	0.7332							0.9965		
Isopropylbenzene	3.8379 4.4070	4.0665 4.4115	3.9340	4.1172	4.2325	Ave		4.1438				5.3					
Cyclohexanone	++++ 0.0117	++++ 0.0116	0.0092	0.0100	0.0114	Ave		0.0108				10.4					
Bromobenzene	0.6544 0.8969	0.7547 0.9025	0.7502	0.8415	0.8557	Ave		0.8080				11.3					
1,1,2,2-Tetrachloroethane	0.7025 0.5161	0.5884 0.5042	0.4439	0.4986	0.4897	Lin2	-0.010	0.4903							0.9930		
N-Propylbenzene	0.9381 1.0364	0.9411 1.0299	0.9158	0.9808	0.9969	Ave		0.9770				4.8					
2-Chlorotoluene	0.6613 0.7813	0.6878 0.7748	0.7070	0.7345	0.7508	Ave		0.7282				6.2					
1,2-Dibromo-3-Chloropropane	++++ 0.1005	0.0663 0.0988	0.0703	0.0908	0.0926	Lin2	0.0298	0.0980							0.9959		
1,3,5-Trimethylbenzene	2.8055 3.3958	2.9650 3.3655	2.9783	3.2167	3.3010	Ave		3.1468				7.3					
4-Chlorotoluene	0.7550 0.8857	0.7223 0.8705	0.7561	0.8516	0.8603	Ave		0.8145				8.3					
tert-Butylbenzene	3.5376 3.5702	3.2378 3.5295	3.2080	3.4203	3.4940	Ave		3.4282				4.3					
1,2,4-Trimethylbenzene	2.4759 3.0972	2.6801 3.0555	2.7343	2.9301	3.0104	Ave		2.8548				8.1					
sec-Butylbenzene	0.7728 0.8965	0.8355 0.8778	0.7846	0.8412	0.8716	Ave		0.8400				5.6					
1,3-Dichlorobenzene	1.1194 1.3199	1.1989 1.4463	1.2403	1.2265	1.2657	Ave		1.2596				8.2					
Naphthalene	++++ 0.8261	0.6391 0.8342	0.6876	0.7686	0.7879	Ave		0.7573				10.3					
4-Isopropyltoluene	3.3900 3.9461	3.5763 3.8228	3.5567	3.7752	3.8686	Ave		3.7051				5.4					
1,4-Dichlorobenzene	1.6858 1.8585	1.7351 1.6592	1.6394	1.8539	1.8683	Ave		1.7572				5.7					
n-Butylbenzene	3.5204 3.9654	3.6580 3.8110	3.6176	3.8788	3.9408	Ave		3.7703				4.6					
1,2-Dichlorobenzene	1.0856 1.2326	1.0413 1.1897	1.0469	1.2071	1.2026	Ave		1.1437				7.2					
1,2,4-Trichlorobenzene	0.7239 0.9812	0.8380 1.0028	0.8938	0.9574	0.9713	Ave		0.9098				11.0					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112102

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

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 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.9920 1.1102	1.0830 1.1374	1.0678	1.1290	1.1112	Ave		1.0901				4.6					
1,2,3-Trichlorobenzene	0.5980 0.7285	0.6694 0.7481	0.6156	0.6808	0.6976	Ave		0.6769				8.1					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112103

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26333/2	H6885.D
Level 2	IC 280-26333/3	H6886.D
Level 3	IC 280-26333/4	H6887.D
Level 4	IC 280-26333/5	H6888.D
Level 5	IC 280-26333/6	H6889.D
Level 6	IC 280-26333/7	H6890.D
Level 7	IC 280-26333/8	H6891.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	16152 2062963	58257 4170454	116012	320298	689837	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	35315 4798017	131098 9459698	254846	730349	1599482	0.900 90.0	3.00 180	6.00	15.0	30.0
Dichlorodifluoromethane	FB	Ave	12251 1489031	37131 3098390	66379	237138	516537	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	6459 752058	20843 1570849	36844	120666	262054	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	6570 806146	22078 1682139	43332	129031	276046	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	6570 766398	21674 1568436	42371	121474	261451	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	4378 523995	15592 1061276	29956	85254	180364	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	18705 2374626	68935 4744025	133831	382961	833464	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	++++ 232383	4764 482224	10968	34451	71522	++++ 300	10.0 600	20.0	50.0	100
1,1-Dichloroethene	FB	Ave	6963 845193	25078 1679648	48468	135227	280390	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acetone	FB	Ave	++++ 206109	++++ 447933	12306	36375	74881	++++ 120	++++ 240	8.00	20.0	40.0
Iodomethane	FB	Ave	11809 1668526	43559 3372057	88823	259868	558339	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Methylene Chloride	FB	Ave	++++ 657920	++++ 1328804	41463	109684	227613	++++ 30.0	++++ 60.0	2.00	5.00	10.0
2-Methyl-2-propanol	FB	Ave	++++ 243357	8020 449738	15783	42041	91707	++++ 600	20.0 1200	40.0	100	200
n-Butanol	FB	Ave	++++ ++++	++++ ++++	++++	++++	++++	++++ ++++	++++ ++++	++++	++++	++++

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112104

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	+++++ 487734	+++++ 1005888	26757	69652	154140	+++++ 300	+++++ 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	8741 1057394	30597 2146795	59979	165415	350371	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Lin2	+++++ 404749	8439 877563	17949	52990	118784	+++++ 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethane	FB	Ave	15497 1924802	52681 3867457	107367	299445	642625	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	23391 3127213	84687 6229311	173275	488887	1064780	1.50 150	5.00 300	10.0	25.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	14926 1989926	49378 3883984	111817	294446	646931	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	7411 1005569	27660 2023659	56033	154883	339466	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	16658 1581788	48764 2992226	94135	245868	538212	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Lin2	4323 1523006	26672 3092796	66531	207239	476541	3.00 300	10.0 600	20.0	50.0	100
1,4-Dioxane	FB	Lin2	+++++ 121810	+++++ 247533	2664	16777	37312	+++++ 1500	+++++ 3000	100	250	500
Chlorobromomethane	FB	Ave	2688 391563	9850 779490	20649	59649	128646	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	17933 1981700	57107 3956678	112429	307440	670964	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	20471 2326627	67386 4585375	133722	362063	772526	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	13168 1694136	47766 3322785	94866	265239	567369	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	16486 2203462	62192 4353597	122237	342563	737431	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	21858 2814039	77940 5607528	153746	435717	946534	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	6720 839975	23028 1650054	47437	134253	280707	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Trichloroethene	FB	Ave	9222 1412722	36307 2845405	72202	213825	467022	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	7218 946154	26550 1923800	51023	149868	315259	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	3843 511310	14017 1015802	28848	79460	169037	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dichlorobromomethane	FB	Ave	14810 1645695	47182 3305573	92705	255888	550186	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112105

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
cis-1,3-Dichloropropene	FB	Ave	8983 1216375	31668 2453420	65130	185468	401946	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Lin1	++++ 789812	18629 1699849	28850	98239	243593	++++ 120	4.00 240	8.00	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	++++ 1286718	++++ 2711937	53980	205223	415335	++++ 120	++++ 240	8.00	20.0	40.0
Toluene	FB	Ave	29066 3487667	97474 6914273	195245	537133	1167676	0.300 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	++++ 854901	20796 1694164	44290	123798	278042	++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	++++ 501971	16554 1002593	31229	77770	163566	++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	8610 1240576	33001 2473070	67048	188618	412789	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	6080 826864	21461 1622329	45411	128837	274800	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chlorodibromomethane	CBZ	Ave	6579 978249	26100 1984741	53470	148817	321226	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylene Dibromide	CBZ	Ave	4542 688105	16725 1366349	35059	103440	223827	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	16549 1815260	51972 3642550	102869	282495	599144	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	17491 2332427	62987 4658652	126763	359503	780202	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6773 1046167	28580 2104501	55683	162809	351055	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	8981 1253182	33107 2550822	66660	192143	423867	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	++++ 158757	4407 306978	9046	25351	53816	++++ 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	24901 3355365	91327 6589560	175061	512227	1117859	0.600 60.0	2.00 120	4.00	10.0	20.0
o-Xylene	CBZ	Ave	10414 1442652	39771 2870138	79785	218122	481623	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Styrene	CBZ	Lin2	7705 2058707	48030 4211976	104112	288665	636531	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Lin2	2957 558836	12664 1106907	28044	81866	180299	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	36573 4776751	134185 9487453	270222	735204	1602465	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	++++ 339535	++++ 703352	16466	44936	109918	++++ 1200	++++ 2400	80.0	200	400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112106

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Bromobenzene	DCB	Ave	6236 972105	24902 1940894	51532	150274	323978	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCB	Lin2	6694 559428	19417 1084370	30492	89039	185404	0.300 30.0	1.00 60.0	2.00	5.00	10.0
N-Propylbenzene	DCB	Ave	8940 1123375	31053 2214861	62903	175146	377451	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	6302 846794	22695 1666342	48565	131153	284250	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	++++ 108948	2189 212522	4829	16216	35071	++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	26735 3680675	97839 7237944	204574	574401	1249775	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	7195 960007	23835 1872185	51938	152073	325725	0.300 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	33711 3869755	106839 7590640	220357	610771	1322833	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	23594 3356986	88437 6571223	187818	523225	1139758	0.300 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	7364 971746	27571 1887890	53892	150208	329976	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	10667 1430606	39561 3110431	85193	219016	479212	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	++++ 895400	21088 1794044	47231	137248	298319	++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	32305 4277193	118009 8221423	244306	674132	1464659	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	16065 2014420	57254 3568394	112610	331059	707369	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	33547 4298112	120707 8195914	248488	692640	1492010	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	10345 1335970	34362 2558575	71910	215544	455321	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	6898 1063527	27652 2156617	61392	170969	367749	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	9453 1203324	35738 2446101	73347	201613	420707	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	5699 789593	22090 1608924	42287	121572	264128	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112107

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 06:31 Calibration End Date: 08/10/2010 08:39 Calibration ID: 2463

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112108

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 09:01 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26333/9	H6892.D
Level 2	IC 280-26333/10	H6893.D
Level 3	IC 280-26333/11	H6894.D
Level 4	IC 280-26333/12	H6895.D
Level 5	ICIS 280-26333/13	H6896.D
Level 6	IC 280-26333/14	H6897.D
Level 7	IC 280-26333/15	H6898.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 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	++++ 0.4816	++++ 0.4751	0.3997	0.4719	0.5061	Ave		0.4669				8.5					
Ethylene oxide	++++ 0.0019	++++ 0.0021	0.0018	0.0018	0.0020	Ave		0.0019				6.4					
Isopropyl alcohol	++++ 0.0033	++++ 0.0038	0.0029	0.0026	0.0037	Lin1	1.1178	0.0037							0.9925		
1,2-Dichloro-1,1,2-trifluoroethane	++++ 0.3544	++++ 0.3469	0.3471	0.3562	0.3757	Ave		0.3561				3.3					
Dichlorofluoromethane	0.5370 0.5065	0.4866 0.4910	0.4980	0.4947	0.5384	Ave		0.5074				4.2					
Carbon disulfide	++++ 0.7825	0.7786 0.7721	0.7432	0.7680	0.8058	Ave		0.7750				2.6					
Ethyl ether	++++ 0.0918	0.0927 0.0902	0.0906	0.0931	0.0971	Ave		0.0926				2.7					
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3374 0.3327	0.3209 0.3280	0.3136	0.3299	0.3475	Ave		0.3300				3.3					
Allyl chloride	++++ 0.4019	0.3747 0.4036	0.3700	0.3897	0.4145	Ave		0.3924				4.5					
Methyl acetate	++++ 0.0499	0.0417 0.0500	0.0428	0.0474	0.0495	Ave		0.0469				8.0					
Tetrahydrofuran	++++ 0.0148	++++ 0.0159	0.0085	0.0110	0.0138	Lin2	0.1550	0.0154							0.9950		
Methyl tert-butyl ether	++++ 0.2745	0.2288 0.2720	0.1938	0.2509	0.2523	Ave		0.2454				12.3					
Hexane	2.1207 2.0425	1.9079 2.0112	1.8961	1.9799	2.1056	Ave		2.0091				4.4					
Ethyl acetate	++++ 0.0691	0.0445 0.0712	0.0445	0.0576	0.0680	Lin1	0.0878	0.0712							0.9989		

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112109

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 09:01 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2464

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 4	LVL 5		B	M1	M2								
Vinyl acetate	++++ 0.2252	0.2008 0.2331	0.1938	0.2091	0.2374	Ave		0.2166				8.3					
Tert-butyl ethyl ether	++++ 0.4866	0.4260 0.4797	0.4010	0.4763	0.4886	Ave		0.4597				8.0					
Methyl methacrylate	++++ 0.0267	++++ 0.0267	0.0159	0.0196	0.0255	Lin2	0.1411	0.0270							0.9953		
Cyclohexane	0.5041 0.5091	0.4853 0.4989	0.4752	0.4933	0.5214	Ave		0.4982				3.1					
2-Pentanone	++++ 0.0684	0.0384 0.0695	0.0436	0.0523	0.0632	Lin2	0.1562	0.0662							0.9903		
Tert-amyl methyl ether	++++ 0.3260	0.2856 0.3195	0.2611	0.3119	0.3342	Ave		0.3064				9.0					
2-Chloroethyl vinyl ether	++++ 0.0465	0.0246 0.0544	0.0334	0.0359	0.0475	Lin1	0.0598	0.0525							0.9936		
Methylcyclohexane	0.5606 0.4849	0.4905 0.4940	0.4617	0.4735	0.5200	Ave		0.4979				6.6					
Ethyl methacrylate	++++ 0.6567	0.4235 0.6819	0.4759	0.4608	0.5902	Lin1	0.0974	0.6748							0.9964		
cis-1,4-Dichloro-2-butene	++++ 0.0670	++++ 0.0698	0.0832	0.0733	0.0613	Ave		0.0709				11.5					
trans-1,4-Dichloro-2-butene	++++ 0.0906	++++ 0.0939	0.0591	0.0619	0.0780	Lin1	0.0880	0.0943							0.9976		
1,2,3-Trimethylbenzene	++++ 2.7485	2.5702 2.7165	2.4717	2.6117	2.8247	Ave		2.6572				4.9					
Dibromofluoromethane (Surr)	++++ 0.4242	++++ 0.4229	0.4613	0.4205	0.4308	Ave		0.4319				3.9					
1,2-Dichloroethane-d4 (Surr)	++++ 0.1926	++++ 0.1910	0.2183	0.1952	0.1971	Ave		0.1989				5.6					
Toluene-d8 (Surr)	++++ 3.9989	++++ 4.0251	4.3804	4.0949	4.1850	Ave		4.1369				3.7					
4-Bromofluorobenzene (Surr)	++++ 1.4754	++++ 1.4722	1.6664	1.4968	1.4575	Ave		1.5137				5.7					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112110

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 09:01 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26333/9	H6892.D
Level 2	IC 280-26333/10	H6893.D
Level 3	IC 280-26333/11	H6894.D
Level 4	IC 280-26333/12	H6895.D
Level 5	ICIS 280-26333/13	H6896.D
Level 6	IC 280-26333/14	H6897.D
Level 7	IC 280-26333/15	H6898.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	++++ 1914470	++++ 3842036	101593	308407	662837	++++ 30.0	++++ 60.0	2.00	5.00	10.0
Ethylene oxide	FB	Ave	++++ 953785	++++ 2079147	56803	147302	331900	++++ 3750	++++ 7500	250	625	1250
Isopropyl alcohol	FB	Lin1	++++ 259023	++++ 612592	14870	34091	98085	++++ 600	++++ 1200	40.0	100	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	++++ 1408645	++++ 2805606	88226	232794	492046	++++ 30.0	++++ 60.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	20733 2013285	62027 3971016	126567	323277	705156	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	++++ 3110601	99247 6244649	188884	501924	1055378	++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl ether	FB	Ave	++++ 364847	11823 729270	23034	60852	127230	++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13026 1322392	40905 2652893	79701	215593	455107	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Allyl chloride	FB	Ave	++++ 1597514	47759 3264487	94027	254672	542877	++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	++++ 990839	26548 2021270	54331	154781	324191	++++ 150	5.00 300	10.0	25.0	50.0
Tetrahydrofuran	FB	Lin2	++++ 117436	++++ 257949	4311	14329	36073	++++ 60.0	++++ 120	4.00	10.0	20.0
Methyl tert-butyl ether	FB	Ave	++++ 1091335	29170 2199732	49244	163992	330507	++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexane	CBZ	Ave	17433 1763022	51764 3514176	103597	275352	589590	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl acetate	FB	Lin1	++++ 549366	11348 1151940	22628	75259	177994	++++ 60.0	2.00 120	4.00	10.0	20.0
Vinyl acetate	FB	Ave	++++ 1790296	51181 3770142	98531	273323	621757	++++ 60.0	2.00 120	4.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112111

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26333

SDG No.: _____

Instrument ID: MSV_H GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 09:01 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2464

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl ethyl ether	FB	Ave	++++ 9671619	271521 19397890	509530	1556301	3199614	++++ 150	5.00 300	10.0	25.0	50.0
Methyl methacrylate	FB	Lin2	++++ 212098	++++ 431975	8103	25559	66692	++++ 60.0	++++ 120	4.00	10.0	20.0
Cyclohexane	FB	Ave	19465 2023783	61863 4035012	120769	322359	682843	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Pentanone	FB	Lin2	++++ 1087345	19598 2248643	44320	136761	331124	++++ 120	4.00 240	8.00	20.0	40.0
Tert-amyl methyl ether	FB	Ave	++++ 6479995	182037 12919338	331861	1019113	2188823	++++ 150	5.00 300	10.0	25.0	50.0
2-Chloroethyl vinyl ether	FB	Lin1	++++ 184810	3138 439558	8481	23481	62250	++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methylcyclohexane	FB	Ave	21647 1927683	62520 3995134	117342	309419	681110	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl methacrylate	CBZ	Lin1	++++ 1133648	22978 2383026	52006	128168	330554	++++ 60.0	2.00 120	4.00	10.0	20.0
cis-1,4-Dichloro-2-butene	DCB	Ave	++++ 81789	++++ 174604	6510	14357	24173	++++ 30.0	++++ 60.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	++++ 110635	++++ 234662	4628	12131	30751	++++ 30.0	++++ 60.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCB	Ave	++++ 3356776	99765 6791246	193502	511519	1113557	++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	++++ 1124271	++++ 1710137	117249	274777	677083	++++ 20.0	++++ 30.0	2.00	5.00	12.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	++++ 510501	++++ 772485	55495	127564	309727	++++ 20.0	++++ 30.0	2.00	5.00	12.0
Toluene-d8 (Surr)	CBZ	Ave	++++ 2301110	++++ 3516509	239335	569503	1406231	++++ 20.0	++++ 30.0	2.00	5.00	12.0
4-Bromofluorobenzene (Surr)	DCB	Ave	++++ 1201238	++++ 1840233	130461	293163	689524	++++ 20.0	++++ 30.0	2.00	5.00	12.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VII

GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-26761/11 Calibration Date: 08/11/2010 15:55

Instrument ID: MSV_G Calib Start Date: 08/11/2010 12:26

GC Column: DB-624 (60.32) ID: 0.32 (mm) Calib End Date: 08/11/2010 14:46

Lab File ID: G7570.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
Xylenes, Total	Ave	1.582	1.584		150	150	0.1	35.0
Dichlorodifluoromethane	Ave	0.4081	0.4114		50.4	50.0	0.8	20.0
Chloromethane	Ave	0.3027	0.2913		48.1	50.0	-3.8	20.0
Vinyl chloride	Ave	0.2944	0.2646		44.9	50.0	-10.1	20.0
Bromomethane	Ave	0.2266	0.2112		46.6	50.0	-6.8	20.0
Chloroethane	Ave	0.1483	0.1409		47.5	50.0	-5.0	20.0
Trichlorofluoromethane	Ave	0.4897	0.4604		47.0	50.0	-6.0	20.0
Acetone	Ave	0.1636	0.1508		184	200	-7.8	20.0
1,1-Dichloroethene	Ave	0.2966	0.3016		50.9	50.0	1.7	20.0
Methylene Chloride	Lin2	0.5698	0.4996		48.2	50.0	-3.6	20.0
trans-1,2-Dichloroethene	Ave	0.3722	0.3585		48.2	50.0	-3.7	20.0
1,1-Dichloroethane	Ave	0.7553	0.6990		46.3	50.0	-7.4	20.0
2-Butanone (MEK)	Ave	0.2687	0.2661		198	200	-0.9	20.0
cis-1,2-Dichloroethene	Ave	0.4282	0.4189		48.9	50.0	-2.2	20.0
2,2-Dichloropropane	Ave	0.4277	0.4285		50.1	50.0	0.2	20.0
Chlorobromomethane	Ave	0.2585	0.2591		50.1	50.0	0.3	20.0
Chloroform	Ave	0.8389	0.8180		48.8	50.0	-2.5	20.0
1,1,1-Trichloroethane	Ave	0.4818	0.4660		48.4	50.0	-3.3	20.0
1,1-Dichloropropene	Ave	0.5794	0.5855		50.5	50.0	1.0	20.0
Carbon tetrachloride	Ave	0.4533	0.4317		47.6	50.0	-4.8	20.0
1,2-Dichloroethane	Ave	0.5799	0.5520		47.6	50.0	-4.8	20.0
Benzene	Ave	1.683	1.634		48.5	50.0	-2.9	20.0
Trichloroethene	Ave	0.4071	0.4049		49.7	50.0	-0.5	20.0
1,2-Dichloropropane	Ave	0.4590	0.4454		48.5	50.0	-3.0	20.0
Dibromomethane	Ave	0.3486	0.3418		49.0	50.0	-2.0	20.0
Dichlorobromomethane	Ave	0.6681	0.6407		47.9	50.0	-4.1	20.0
cis-1,3-Dichloropropene	Ave	0.7874	0.7850		49.8	50.0	-0.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5356	0.5639		211	200	5.3	20.0
Toluene	Ave	1.571	1.495		47.6	50.0	-4.8	20.0
trans-1,3-Dichloropropene	Ave	0.7268	0.7437		51.2	50.0	2.3	20.0
1,1,2-Trichloroethane	Ave	0.3706	0.3643		49.2	50.0	-1.7	20.0
2-Hexanone	Ave	1.090	1.181		217	200	8.3	20.0
1,3-Dichloropropane	Ave	2.185	2.195		50.2	50.0	0.4	20.0
Tetrachloroethene	Ave	0.8193	0.7975		48.7	50.0	-2.7	20.0
Chlorodibromomethane	Ave	1.422	1.488		52.3	50.0	4.6	20.0
Ethylene Dibromide	Ave	1.205	1.246		51.7	50.0	3.4	20.0
Chlorobenzene	Ave	2.730	2.741		50.2	50.0	0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.146	1.187		51.8	50.0	3.6	20.0
Ethylbenzene	Ave	1.286	1.272		49.5	50.0	-1.1	20.0
m-Xylene & p-Xylene	Ave	1.591	1.586		99.7	100	-0.3	20.0
o-Xylene	Ave	1.565	1.581		50.5	50.0	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-26761/11 Calibration Date: 08/11/2010 15:55

Instrument ID: MSV_G Calib Start Date: 08/11/2010 12:26

GC Column: DB-624 (60.32) ID: 0.32 (mm) Calib End Date: 08/11/2010 14:46

Lab File ID: G7570.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
Styrene	Ave	2.727	2.848		52.2	50.0	4.4	20.0
Bromoform	Ave	0.8086	0.8807		54.5	50.0	8.9	20.0
Isopropylbenzene	Ave	2.242	2.310		51.5	50.0	3.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.061	1.056		49.7	50.0	-0.5	20.0
1,2,3-Trichloropropane	Ave	0.2161	0.1974		45.7	50.0	-8.7	20.0
Bromobenzene	Ave	0.7591	0.7748		51.0	50.0	2.1	20.0
N-Propylbenzene	Ave	0.6272	0.6338		50.5	50.0	1.0	20.0
1,3,5-Trimethylbenzene	Ave	1.876	1.902		50.7	50.0	1.4	20.0
2-Chlorotoluene	Ave	0.6306	0.6425		50.9	50.0	1.9	20.0
4-Chlorotoluene	Ave	0.6694	0.6687		49.9	50.0	-0.1	20.0
tert-Butylbenzene	Ave	1.853	1.828		49.3	50.0	-1.3	20.0
1,2,4-Trimethylbenzene	Ave	1.999	1.904		47.6	50.0	-4.8	20.0
sec-Butylbenzene	Ave	2.459	2.471		50.2	50.0	0.5	20.0
4-Isopropyltoluene	Ave	2.060	1.961		47.6	50.0	-4.8	20.0
1,3-Dichlorobenzene	Ave	1.441	1.385		48.1	50.0	-3.9	20.0
1,4-Dichlorobenzene	Ave	1.478	1.439		48.7	50.0	-2.6	20.0
n-Butylbenzene	Ave	2.297	2.258		49.1	50.0	-1.7	20.0
1,2-Dichlorobenzene	Ave	1.397	1.345		48.2	50.0	-3.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1760	0.1723		49.0	50.0	-2.1	20.0
1,2,4-Trichlorobenzene	Ave	0.7465	0.7334		49.1	50.0	-1.7	20.0
Hexachlorobutadiene	Ave	0.4126	0.4166		50.5	50.0	1.0	20.0
Naphthalene	Ave	2.242	2.163		48.2	50.0	-3.5	20.0
1,2,3-Trichlorobenzene	Ave	0.6985	0.6932		49.6	50.0	-0.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26762/2 Calibration Date: 08/12/2010 08:14

Instrument ID: MSV_G Calib Start Date: 08/11/2010 12:26

GC Column: DB-624 (60.32) ID: 0.32 (mm) Calib End Date: 08/11/2010 14:46

Lab File ID: G7598.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Xylenes, Total	Ave	1.582	1.544		146	150	-2.4	35.0
Dichlorodifluoromethane	Ave	0.4081	0.4350		53.3	50.0	6.6	20.0
Chloromethane	Ave	0.3027	0.3431		56.7	50.0	13.3	20.0
Vinyl chloride	Ave	0.2944	0.3231		54.9	50.0	9.7	20.0
Bromomethane	Ave	0.2266	0.2412		53.2	50.0	6.4	20.0
Chloroethane	Ave	0.1483	0.1643		55.4	50.0	10.7	20.0
Trichlorofluoromethane	Ave	0.4897	0.4876		49.8	50.0	-0.4	20.0
Acetone	Ave	0.1636	0.1771		217	200	8.3	20.0
1,1-Dichloroethene	Ave	0.2966	0.3030		51.1	50.0	2.2	20.0
Methylene Chloride	Lin2	0.5698	0.5172		50.0	50.0	0.0	20.0
trans-1,2-Dichloroethene	Ave	0.3722	0.3716		49.9	50.0	-0.2	20.0
1,1-Dichloroethane	Ave	0.7553	0.7688		50.9	50.0	1.8	20.0
2-Butanone (MEK)	Ave	0.2687	0.3116		232	200	16.0	20.0
cis-1,2-Dichloroethene	Ave	0.4282	0.4271		49.9	50.0	-0.3	20.0
2,2-Dichloropropane	Ave	0.4277	0.4458		52.1	50.0	4.2	20.0
Chlorobromomethane	Ave	0.2585	0.2680		51.8	50.0	3.7	20.0
Chloroform	Ave	0.8389	0.8553		51.0	50.0	2.0	20.0
1,1,1-Trichloroethane	Ave	0.4818	0.4960		51.5	50.0	2.9	20.0
1,1-Dichloropropene	Ave	0.5794	0.6059		52.3	50.0	4.6	20.0
Carbon tetrachloride	Ave	0.4533	0.4605		50.8	50.0	1.6	20.0
1,2-Dichloroethane	Ave	0.5799	0.6242		53.8	50.0	7.7	20.0
Benzene	Ave	1.683	1.717		51.0	50.0	2.0	20.0
Trichloroethene	Ave	0.4071	0.3969		48.8	50.0	-2.5	20.0
1,2-Dichloropropane	Ave	0.4590	0.4731		51.5	50.0	3.1	20.0
Dibromomethane	Ave	0.3486	0.3643		52.2	50.0	4.5	20.0
Dichlorobromomethane	Ave	0.6681	0.7150		53.5	50.0	7.0	20.0
cis-1,3-Dichloropropene	Ave	0.7874	0.8457		53.7	50.0	7.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5356	0.6395		239	200	19.4	20.0
Toluene	Ave	1.571	1.565		49.8	50.0	-0.4	20.0
trans-1,3-Dichloropropene	Ave	0.7268	0.8103		55.7	50.0	11.5	20.0
1,1,2-Trichloroethane	Ave	0.3706	0.3999		54.0	50.0	7.9	20.0
2-Hexanone	Ave	1.090	1.269		233	200	16.4	20.0
1,3-Dichloropropane	Ave	2.185	2.264		51.8	50.0	3.6	20.0
Tetrachloroethene	Ave	0.8193	0.7432		45.4	50.0	-9.3	20.0
Chlorodibromomethane	Ave	1.422	1.486		52.2	50.0	4.5	20.0
Ethylene Dibromide	Ave	1.205	1.239		51.4	50.0	2.8	20.0
Chlorobenzene	Ave	2.730	2.664		48.8	50.0	-2.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.146	1.165		50.8	50.0	1.6	20.0
Ethylbenzene	Ave	1.286	1.244		48.4	50.0	-3.3	20.0
m-Xylene & p-Xylene	Ave	1.591	1.556		97.8	100	-2.2	20.0
o-Xylene	Ave	1.565	1.521		48.6	50.0	-2.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26762/2 Calibration Date: 08/12/2010 08:14

Instrument ID: MSV_G Calib Start Date: 08/11/2010 12:26

GC Column: DB-624 (60.32) ID: 0.32 (mm) Calib End Date: 08/11/2010 14:46

Lab File ID: G7598.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Styrene	Ave	2.727	2.766		50.7	50.0	1.4	20.0
Bromoform	Ave	0.8086	0.8702		53.8	50.0	7.6	20.0
Isopropylbenzene	Ave	2.242	2.225		49.6	50.0	-0.7	20.0
1,1,2,2-Tetrachloroethane	Ave	1.061	1.171		55.2	50.0	10.3	20.0
1,2,3-Trichloropropane	Ave	0.2161	0.2418		56.0	50.0	11.9	20.0
Bromobenzene	Ave	0.7591	0.7562		49.8	50.0	-0.4	20.0
N-Propylbenzene	Ave	0.6272	0.6528		52.0	50.0	4.1	20.0
1,3,5-Trimethylbenzene	Ave	1.876	1.956		52.1	50.0	4.3	20.0
2-Chlorotoluene	Ave	0.6306	0.6577		52.2	50.0	4.3	20.0
4-Chlorotoluene	Ave	0.6694	0.6850		51.2	50.0	2.3	20.0
tert-Butylbenzene	Ave	1.853	1.914		51.7	50.0	3.3	20.0
1,2,4-Trimethylbenzene	Ave	1.999	2.020		50.5	50.0	1.0	20.0
sec-Butylbenzene	Ave	2.459	2.483		50.5	50.0	1.0	20.0
4-Isopropyltoluene	Ave	2.060	2.112		51.2	50.0	2.5	20.0
1,3-Dichlorobenzene	Ave	1.441	1.422		49.3	50.0	-1.4	20.0
1,4-Dichlorobenzene	Ave	1.478	1.461		49.4	50.0	-1.2	20.0
n-Butylbenzene	Ave	2.297	2.355		51.3	50.0	2.5	20.0
1,2-Dichlorobenzene	Ave	1.397	1.399		50.1	50.0	0.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1760	0.2077		59.0	50.0	18.0	20.0
1,2,4-Trichlorobenzene	Ave	0.7465	0.7780		52.1	50.0	4.2	20.0
Hexachlorobutadiene	Ave	0.4126	0.4126		50.0	50.0	0.0	20.0
Naphthalene	Ave	2.242	2.455		54.7	50.0	9.5	20.0
1,2,3-Trichlorobenzene	Ave	0.6985	0.7334		52.5	50.0	5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab Sample ID: ICV 280-26762/10 Calibration Date: 08/12/2010 12:09
 Instrument ID: MSV_G Calib Start Date: 08/12/2010 09:22
 GC Column: DB-624 (60.32) ID: 0.32 (mm) Calib End Date: 08/12/2010 11:40
 Lab File ID: G7607.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2166	0.2432		56.2	50.0	12.3	35.0
Carbon disulfide	Ave	1.522	1.645		54.0	50.0	8.1	20.0
Methyl tert-butyl ether	Ave	1.245	1.203		48.3	50.0	-3.4	20.0
Hexane	Ave	1.306	1.495		57.3	50.0	14.5	20.0
Vinyl acetate	Ave	1.005	0.9923		98.8	100	-1.2	35.0
Dibromofluoromethane (Surr)	Ave	0.4268	0.4475		52.4	50.0	4.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5174	0.4789		46.3	50.0	-7.4	20.0
Toluene-d8 (Surr)	Ave	3.158	3.660		57.9	50.0	15.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8255	0.8923		54.0	50.0	8.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-26333/16 Calibration Date: 08/10/2010 11:32

Instrument ID: MSV_H Calib Start Date: 08/10/2010 06:31

GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 08/10/2010 08:39

Lab File ID: H6899.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
Xylenes, Total	Ave	2.051	2.124		31.1	30.0	3.6	35.0
Acrolein	Ave	0.0057	0.0060		106	100	6.5	35.0
1,1-Dichloroethene	Ave	0.2284	0.2311		10.1	10.0	1.2	20.0
Acetone	Ave	0.0148	0.0144		39.0	40.0	-2.6	20.0
Iodomethane	Ave	0.4292	0.4615		10.8	10.0	7.5	35.0
Methylene Chloride	Ave	0.1840	0.1834		9.97	10.0	-0.3	20.0
Acrylonitrile	Ave	0.0127	0.0129		101	100	1.4	35.0
trans-1,2-Dichloroethene	Ave	0.2842	0.2809		9.88	10.0	-1.2	20.0
1,1-Dichloroethane	Ave	0.5096	0.5012	0.1000	9.83	10.0	-1.7	20.0
2,2-Dichloropropane	Ave	0.4459	0.4430		9.94	10.0	-0.6	20.0
cis-1,2-Dichloroethene	Ave	0.2633	0.2634		10.0	10.0	0.0	20.0
2-Butanone (MEK)	Lin2	0.0240	0.0240		37.2	40.0	-7.0	20.0
Chlorobromomethane	Ave	0.0989	0.1061		10.7	10.0	7.3	20.0
Chloroform	Ave	0.5393	0.5259		9.75	10.0	-2.5	20.0
1,1,1-Trichloroethane	Ave	0.6295	0.6103		9.70	10.0	-3.0	20.0
1,1-Dichloropropene	Ave	0.4476	0.4645		10.4	10.0	3.8	20.0
Carbon tetrachloride	Ave	0.5784	0.5891		10.2	10.0	1.8	20.0
Benzene	Ave	0.7399	0.7537		10.2	10.0	1.9	20.0
1,2-Dichloroethane	Ave	0.2228	0.2228		10.0	10.0	0.0	20.0
Trichloroethene	Ave	0.3547	0.3738		10.5	10.0	5.4	20.0
1,2-Dichloropropane	Ave	0.2494	0.2538		10.2	10.0	1.7	20.0
Dibromomethane	Ave	0.1339	0.1432		10.7	10.0	6.9	20.0
Dichlorobromomethane	Ave	0.4465	0.4266		9.55	10.0	-4.5	20.0
cis-1,3-Dichloropropene	Ave	0.3131	0.3346		10.7	10.0	6.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0825	0.0853		41.3	40.0	3.4	20.0
Toluene	Ave	0.9284	0.9293		10.0	10.0	0.1	20.0
trans-1,3-Dichloropropene	Ave	0.2159	0.2379		11.0	10.0	10.2	20.0
1,1,2-Trichloroethane	Ave	0.1392	0.1409		10.1	10.0	1.2	20.0
Tetrachloroethene	Ave	1.579	1.637		10.4	10.0	3.7	20.0
1,3-Dichloropropane	Ave	1.060	1.154		10.9	10.0	8.9	20.0
2-Hexanone	Lin1	0.2335	0.2403		36.6	40.0	-8.5	20.0
Chlorodibromomethane	Ave	1.244	1.340		10.8	10.0	7.7	20.0
Ethylene Dibromide	Ave	0.8485	0.9480		11.2	10.0	11.7	20.0
1-Chlorohexane	Ave	2.443	2.362		9.67	10.0	-3.3	35.0
Chlorobenzene	Ave	3.015	3.132	0.3000	10.4	10.0	3.9	20.0
1,1,1,2-Tetrachloroethane	Ave	1.332	1.410		10.6	10.0	5.9	20.0
Ethylbenzene	Ave	1.607	1.653		10.3	10.0	2.9	20.0
m-Xylene & p-Xylene	Ave	2.147	2.232		20.8	20.0	4.0	20.0
o-Xylene	Ave	1.859	1.908		10.3	10.0	2.7	20.0
Styrene	Lin2	2.362	2.598		9.73	10.0	-2.7	20.0
Bromoform	Lin2	0.6621	0.7712	0.1000	10.6	10.0	6.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-26333/16 Calibration Date: 08/10/2010 11:32

Instrument ID: MSV_H Calib Start Date: 08/10/2010 06:31

GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 08/10/2010 08:39

Lab File ID: H6899.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
Isopropylbenzene	Ave	4.144	4.432		10.7	10.0	7.0	20.0
Bromobenzene	Ave	0.8080	0.8570		10.6	10.0	6.1	20.0
1,1,2,2-Tetrachloroethane	Lin2	0.5348	0.5403	0.3000	10.9	10.0	8.9	20.0
1,2,3-Trichloropropane	Ave	0.1398	0.1384		9.90	10.0	-1.0	20.0
N-Propylbenzene	Ave	0.9770	0.9815		10.0	10.0	0.5	20.0
2-Chlorotoluene	Ave	0.7282	0.7473		10.3	10.0	2.6	20.0
1,3,5-Trimethylbenzene	Ave	3.147	3.267		10.4	10.0	3.8	20.0
4-Chlorotoluene	Ave	0.8145	0.8698		10.7	10.0	6.8	20.0
tert-Butylbenzene	Ave	3.428	3.467		10.1	10.0	1.1	20.0
1,2,4-Trimethylbenzene	Ave	2.855	2.957		10.4	10.0	3.6	20.0
sec-Butylbenzene	Ave	0.8400	0.8436		10.0	10.0	0.4	20.0
1,3-Dichlorobenzene	Ave	1.260	1.307		10.4	10.0	3.7	20.0
4-Isopropyltoluene	Ave	3.705	3.771		10.2	10.0	1.8	20.0
1,4-Dichlorobenzene	Ave	1.757	1.783		10.1	10.0	1.5	20.0
1,2-Dichlorobenzene	Ave	1.144	1.173		10.3	10.0	2.6	20.0
n-Butylbenzene	Ave	3.770	3.771		10.0	10.0	0.0	20.0
1,2-Dibromo-3-Chloropropane	Lin2	0.0866	0.0962		10.2	10.0	1.8	20.0
1,2,4-Trichlorobenzene	Ave	0.9098	0.9735		10.7	10.0	7.0	20.0
Hexachlorobutadiene	Ave	1.090	1.085		9.95	10.0	-0.5	20.0
Naphthalene	Ave	0.7573	0.7972		10.5	10.0	5.3	20.0
1,2,3-Trichlorobenzene	Ave	0.6769	0.7148		10.6	10.0	5.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: ICV 280-26333/18 Calibration Date: 08/10/2010 12:15
Instrument ID: MSV_H Calib Start Date: 08/10/2010 06:31
GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 08/10/2010 08:39
Lab File ID: H6901.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	0.3854	0.4409		11.4	10.0	14.4	20.0
Chloromethane	Ave	0.2013	0.2280	0.1000	11.3	10.0	13.2	20.0
Vinyl chloride	Ave	0.2156	0.2313		10.7	10.0	7.3	20.0
Bromomethane	Ave	0.2072	0.2022		9.76	10.0	-2.4	20.0
Chloroethane	Ave	0.1433	0.1550		10.8	10.0	8.1	20.0
Trichlorofluoromethane	Ave	0.6406	0.6901		10.8	10.0	7.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab Sample ID: ICV 280-26333/19 Calibration Date: 08/10/2010 12:37
 Instrument ID: MSV_H Calib Start Date: 08/10/2010 09:01
 GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 08/10/2010 11:10
 Lab File ID: H6902.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
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3300	0.3300		10.0	10.0	0.0	35.0
Carbon disulfide	Ave	0.7750	0.7561		9.76	10.0	-2.4	20.0
Methyl acetate	Ave	0.0469	0.0487		51.9	50.0	3.9	35.0
Methyl tert-butyl ether	Ave	0.2454	0.2367		9.65	10.0	-3.5	20.0
Hexane	Ave	2.009	2.060		10.3	10.0	2.6	20.0
Vinyl acetate	Ave	0.2166	0.2186		20.2	20.0	0.9	35.0
Cyclohexane	Ave	0.4982	0.4959		9.95	10.0	-0.4	35.0
Methylcyclohexane	Ave	0.4979	0.4861		9.76	10.0	-2.4	35.0
Dibromofluoromethane (Surr)	Ave	0.4319	0.4004		10.2	11.0	-7.3	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1989	0.1815		10.0	11.0	-8.7	35.0
Toluene-d8 (Surr)	Ave	4.137	3.945		10.5	11.0	-4.6	35.0
4-Bromofluorobenzene (Surr)	Ave	1.514	1.384		10.1	11.0	-8.6	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26526/2 Calibration Date: 08/11/2010 08:32
Instrument ID: MSV_H Calib Start Date: 07/10/2010 10:56
GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 07/10/2010 13:06
Lab File ID: H6933.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
Propionitrile	Lin2	0.0047	0.0023		10.0	100	-100.0*	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26526/2 Calibration Date: 08/11/2010 08:32

Instrument ID: MSV_H Calib Start Date: 08/10/2010 06:31

GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 08/10/2010 08:39

Lab File ID: H6933.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
Xylenes, Total	Ave	2.051	2.157		31.5	30.0	5.2	35.0
Dichlorodifluoromethane	Ave	0.3854	0.3744		9.72	10.0	-2.8	20.0
Chloromethane	Ave	0.2013	0.1959	0.1000	9.73	10.0	-2.7	20.0
Vinyl chloride	Ave	0.2156	0.2163		10.0	10.0	0.3	20.0
Bromomethane	Ave	0.2072	0.1978		9.55	10.0	-4.5	20.0
Chloroethane	Ave	0.1433	0.1415		9.87	10.0	-1.3	20.0
Trichlorofluoromethane	Ave	0.6406	0.6342		9.90	10.0	-1.0	20.0
Acrolein	Ave	0.0057	0.0047		83.4	99.9	-16.6	50.0
1,1-Dichloroethene	Ave	0.2284	0.2350		10.3	10.0	2.9	20.0
Acetone	Ave	0.0148	0.0136		36.8	40.0	-8.0	20.0
Iodomethane	Ave	0.4292	0.4330		10.1	10.0	0.9	35.0
Methylene Chloride	Ave	0.1840	0.1881		10.2	10.0	2.2	20.0
Acrylonitrile	Ave	0.0127	0.0128		101	100	1.2	50.0
trans-1,2-Dichloroethene	Ave	0.2842	0.2837		9.98	10.0	-0.2	20.0
1,1-Dichloroethane	Ave	0.5096	0.5238	0.1000	10.3	10.0	2.8	20.0
2-Chloro-1,3-butadiene	Ave	0.5075	0.5607		11.0	10.0	10.5	35.0
2,2-Dichloropropane	Ave	0.4459	0.4654		10.4	10.0	4.4	20.0
cis-1,2-Dichloroethene	Ave	0.2633	0.2660		10.1	10.0	1.0	20.0
2-Butanone (MEK)	Lin2	0.0240	0.0229		35.6	40.0	-11.0	20.0
Chlorobromomethane	Ave	0.0989	0.1009		10.2	10.0	2.1	20.0
Chloroform	Ave	0.5393	0.5276		9.78	10.0	-2.2	20.0
1,1,1-Trichloroethane	Ave	0.6295	0.6198		9.85	10.0	-1.5	20.0
1,1-Dichloropropene	Ave	0.4476	0.4528		10.1	10.0	1.2	20.0
Carbon tetrachloride	Ave	0.5784	0.5875		10.2	10.0	1.6	20.0
1,2-Dichloroethane	Ave	0.2228	0.2232		10.0	10.0	0.2	20.0
Benzene	Ave	0.7399	0.7533		10.2	10.0	1.8	20.0
Trichloroethene	Ave	0.3547	0.3624		10.2	10.0	2.2	20.0
1,2-Dichloropropane	Ave	0.2494	0.2471		9.91	10.0	-0.9	20.0
Dibromomethane	Ave	0.1339	0.1316		9.83	10.0	-1.7	20.0
1,4-Dioxane	Lin2	0.0006	0.0006		500	500	0.1	50.0
Dichlorobromomethane	Ave	0.4465	0.4258		9.54	10.0	-4.6	20.0
cis-1,3-Dichloropropene	Ave	0.3131	0.3187		10.2	10.0	1.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0825	0.0762		37.0	40.0	-7.6	20.0
Toluene	Ave	0.9284	0.9062		9.76	10.0	-2.4	20.0
trans-1,3-Dichloropropene	Ave	0.2159	0.2142		9.92	10.0	-0.8	20.0
1,1,2-Trichloroethane	Ave	0.1392	0.1302		9.35	10.0	-6.5	20.0
Tetrachloroethene	Ave	1.579	1.574		9.97	10.0	-0.3	20.0
1,3-Dichloropropane	Ave	1.060	1.134		10.7	10.0	7.0	20.0
2-Hexanone	Lin1	0.2335	0.2180		33.4	40.0	-16.5	20.0
Chlorodibromomethane	Ave	1.244	1.259		10.1	10.0	1.2	20.0
Ethylene Dibromide	Ave	0.8485	0.8931		10.5	10.0	5.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26526/2 Calibration Date: 08/11/2010 08:32

Instrument ID: MSV_H Calib Start Date: 08/10/2010 06:31

GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 08/10/2010 08:39

Lab File ID: H6933.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
1-Chlorohexane	Ave	2.443	2.513		10.2	9.88	2.9	35.0
Chlorobenzene	Ave	3.015	3.134	0.3000	10.4	10.0	3.9	20.0
1,1,1,2-Tetrachloroethane	Ave	1.332	1.382		10.4	10.0	3.8	20.0
Ethylbenzene	Ave	1.607	1.705		10.6	10.0	6.1	20.0
m-Xylene & p-Xylene	Ave	2.147	2.265		21.1	20.0	5.5	20.0
o-Xylene	Ave	1.859	1.941		10.4	10.0	4.4	20.0
Styrene	Lin2	2.362	2.870		10.7	10.0	7.3	20.0
Bromoform	Lin2	0.6621	0.6892	0.1000	9.53	10.0	-4.7	20.0
Isopropylbenzene	Ave	4.144	4.350		10.5	10.0	5.0	20.0
Bromobenzene	Ave	0.8080	0.8433		10.4	10.0	4.4	20.0
1,1,2,2-Tetrachloroethane	Lin2	0.5348	0.5052	0.3000	10.2	10.0	1.7	20.0
1,2,3-Trichloropropane	Ave	0.1398	0.1518		10.9	10.0	8.6	20.0
N-Propylbenzene	Ave	0.9770	1.019		10.4	10.0	4.3	20.0
2-Chlorotoluene	Ave	0.7282	0.7530		10.3	10.0	3.4	20.0
1,3,5-Trimethylbenzene	Ave	3.147	3.376		10.7	10.0	7.3	20.0
4-Chlorotoluene	Ave	0.8145	0.8603		10.6	10.0	5.6	20.0
tert-Butylbenzene	Ave	3.428	3.565		10.4	10.0	4.0	20.0
1,2,4-Trimethylbenzene	Ave	2.855	3.090		10.8	10.0	8.2	20.0
sec-Butylbenzene	Ave	0.8400	0.8627		10.3	10.0	2.7	20.0
1,3-Dichlorobenzene	Ave	1.260	1.346		10.7	10.0	6.8	20.0
4-Isopropyltoluene	Ave	3.705	3.948		10.7	10.0	6.5	20.0
1,4-Dichlorobenzene	Ave	1.757	1.714		9.75	10.0	-2.5	20.0
1,2-Dichlorobenzene	Ave	1.144	1.182		10.3	10.0	3.3	20.0
n-Butylbenzene	Ave	3.770	3.986		10.6	10.0	5.7	20.0
1,2-Dibromo-3-Chloropropane	Lin2	0.0866	0.0864		9.19	10.0	-8.1	20.0
1,2,4-Trichlorobenzene	Ave	0.9098	0.9395		10.3	10.0	3.3	20.0
Hexachlorobutadiene	Ave	1.090	1.083		9.93	10.0	-0.7	20.0
Naphthalene	Ave	0.7573	0.7411		9.79	10.0	-2.1	20.0
1,2,3-Trichlorobenzene	Ave	0.6769	0.6868		10.1	10.0	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab Sample ID: CCV 280-26526/3 Calibration Date: 08/11/2010 08:54
 Instrument ID: MSV_H Calib Start Date: 08/10/2010 09:01
 GC Column: DB-624 (75.53) ID: 0.53 (mm) Calib End Date: 08/10/2010 11:10
 Lab File ID: H6934.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
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3300	0.3424		10.4	10.0	3.8	50.0
Carbon disulfide	Ave	0.7750	0.8297		10.7	10.0	7.1	20.0
Methyl acetate	Ave	0.0469	0.0483		51.6	50.0	3.1	50.0
Methyl tert-butyl ether	Ave	0.2454	0.2106		8.58	10.0	-14.2	20.0
Hexane	Ave	2.009	2.245		11.2	10.0	11.7	20.0
Vinyl acetate	Ave	0.2166	0.2280		21.1	20.0	5.3	50.0
Cyclohexane	Ave	0.4982	0.5338		10.7	10.0	7.2	35.0
Methylcyclohexane	Ave	0.4979	0.5303		10.7	10.0	6.5	35.0
Dibromofluoromethane (Surr)	Ave	0.4319	0.4595		11.7	11.0	6.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1989	0.2060		11.4	11.0	3.6	20.0
Toluene-d8 (Surr)	Ave	4.137	4.665		12.4	11.0	12.8	20.0
4-Bromofluorobenzene (Surr)	Ave	1.514	1.696		12.3	11.0	12.1	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26526/4

Matrix: Water Lab File ID: H6938.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 10:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.16
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.18
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	0.81
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.14
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.14
78-93-3	2-Butanone (MEK)	3.2	U	6.0	1.8
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.13
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.20
591-78-6	2-Hexanone	3.2	U	5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	1.0
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.17
71-43-2	Benzene	0.20	U	1.0	0.16
67-64-1	Acetone	6.4	U	10	1.9
108-86-1	Bromobenzene	0.20	U	1.0	0.17
75-25-2	Bromoform	0.40	U	1.0	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.21
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.19
75-15-0	Carbon disulfide	0.80	U	2.0	0.45
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.17
108-90-7	Chlorobenzene	0.20	U	1.0	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26526/4

Matrix: Water Lab File ID: H6938.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 10:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.20	U	1.0	0.16
75-00-3	Chloroethane	1.6	U	2.0	0.41
74-87-3	Chloromethane	1.6	U	2.0	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.16
74-95-3	Dibromomethane	0.40	U	1.0	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.19
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.18
75-09-2	Methylene Chloride	0.397	J	5.0	0.32
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.19
100-42-5	Styrene	0.40	U	1.0	0.17
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.16
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.19
127-18-4	Tetrachloroethene	0.40	U	1.0	0.20
108-88-3	Toluene	0.40	U	1.0	0.17
79-01-6	Trichloroethene	0.20	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.40
110-54-3	Hexane	2.0	U	2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-26526/4
Matrix: Water Lab File ID: H6938.D
Analysis Method: 8260B/DoD Date Collected: _____
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 10:27
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	110	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	109	75-120	
1868-53-7	Dibromofluoromethane (Surr)	108	85-115	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26668/3-A

Matrix: Solid Lab File ID: G7610.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 5.05(g) Date Analyzed: 08/12/2010 13:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.99	U	5.0	0.55
71-55-6	1,1,1-Trichloroethane	0.99	U	5.0	0.51
96-18-4	1,2,3-Trichloropropane	0.99	U	5.0	0.80
87-61-6	1,2,3-Trichlorobenzene	0.99	U	5.0	0.74
75-34-3	1,1-Dichloroethane	0.99	U	5.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.99	U	5.0	0.72
96-12-8	1,2-Dibromo-3-Chloropropane	0.99	U	9.9	0.59
563-58-6	1,1-Dichloropropene	0.99	U	5.0	0.53
75-35-4	1,1-Dichloroethene	0.99	U	5.0	0.58
79-00-5	1,1,2-Trichloroethane	0.99	U	5.0	0.87
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	5.0	0.60
95-63-6	1,2,4-Trimethylbenzene	0.99	U	5.0	0.57
95-50-1	1,2-Dichlorobenzene	0.99	U	5.0	0.45
107-06-2	1,2-Dichloroethane	0.99	U	5.0	0.69
541-73-1	1,3-Dichlorobenzene	0.99	U	5.0	0.48
142-28-9	1,3-Dichloropropane	0.99	U	5.0	0.50
108-67-8	1,3,5-Trimethylbenzene	0.99	U	5.0	0.56
78-93-3	2-Butanone (MEK)	9.9	U	20	1.8
106-46-7	1,4-Dichlorobenzene	0.99	U	5.0	0.77
78-87-5	1,2-Dichloropropane	0.99	U	5.0	0.54
594-20-7	2,2-Dichloropropane	0.99	U	5.0	0.44
591-78-6	2-Hexanone	9.9	U	20	4.8
108-10-1	4-Methyl-2-pentanone (MIBK)	9.9	U	20	4.3
99-87-6	4-Isopropyltoluene	0.99	U	5.0	0.49
71-43-2	Benzene	0.99	U	5.0	0.47
67-64-1	Acetone	9.9	U	20	5.3
108-86-1	Bromobenzene	0.99	U	5.0	0.49
75-25-2	Bromoform	0.99	U	5.0	0.23
74-83-9	Bromomethane	0.99	U	9.9	0.50
56-23-5	Carbon tetrachloride	0.99	U	5.0	0.62
75-15-0	Carbon disulfide	0.99	U	5.0	0.42
95-49-8	2-Chlorotoluene	0.99	U	5.0	0.50
106-43-4	4-Chlorotoluene	0.99	U	5.0	0.77
108-90-7	Chlorobenzene	0.99	U	5.0	0.53
74-97-5	Chlorobromomethane	0.99	U	5.0	0.30
124-48-1	Chlorodibromomethane	0.99	U	5.0	0.56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26668/3-A

Matrix: Solid Lab File ID: G7610.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 5.05(g) Date Analyzed: 08/12/2010 13:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	0.99	U	9.9	0.29
75-00-3	Chloroethane	0.99	U	9.9	0.88
74-87-3	Chloromethane	0.99	U	9.9	0.76
156-59-2	cis-1,2-Dichloroethene	0.99	U	5.0	0.55
10061-01-5	cis-1,3-Dichloropropene	2.0	U	5.0	1.3
74-95-3	Dibromomethane	0.99	U	5.0	0.83
75-27-4	Dichlorobromomethane	0.99	U	5.0	0.22
75-71-8	Dichlorodifluoromethane	0.99	U	9.9	0.51
100-41-4	Ethylbenzene	0.99	U	5.0	0.66
87-68-3	Hexachlorobutadiene	0.99	U	5.0	0.54
98-82-8	Isopropylbenzene	0.99	U	5.0	0.58
106-93-4	Ethylene Dibromide	0.99	U	5.0	0.51
75-09-2	Methylene Chloride	0.99	U	5.0	0.74
1634-04-4	Methyl tert-butyl ether	0.99	U	20	0.34
179601-23-1	m-Xylene & p-Xylene	2.0	U	3.2	1.0
91-20-3	Naphthalene	0.99	U	5.0	0.62
104-51-8	n-Butylbenzene	0.99	U	5.0	0.55
103-65-1	N-Propylbenzene	0.99	U	5.0	0.57
95-47-6	o-Xylene	0.99	U	5.0	0.60
100-42-5	Styrene	0.99	U	5.0	0.62
135-98-8	sec-Butylbenzene	0.99	U	5.0	0.76
98-06-6	tert-Butylbenzene	0.99	U	5.0	0.50
156-60-5	trans-1,2-Dichloroethene	0.99	U	5.0	0.39
10061-02-6	trans-1,3-Dichloropropene	0.99	U	5.0	0.66
127-18-4	Tetrachloroethene	0.99	U	5.0	0.58
108-88-3	Toluene	0.99	U	5.0	0.68
79-01-6	Trichloroethene	0.99	U	5.0	0.23
75-69-4	Trichlorofluoromethane	2.0	U	9.9	1.0
75-01-4	Vinyl chloride	2.0	U	5.0	1.3
110-54-3	Hexane	5.0	U	5.0	0.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-26668/3-A
Matrix: Solid Lab File ID: G7610.D
Analysis Method: 8260B/DoD Date Collected: _____
Sample wt/vol: 5.05(g) Date Analyzed: 08/12/2010 13:19
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	104	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	96	85-120	
1868-53-7	Dibromofluoromethane (Surr)	91	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26526/5

Matrix: Water Lab File ID: H6939.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 10:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	5.30		1.0	0.17
71-55-6	1,1,1-Trichloroethane	4.79		1.0	0.16
96-18-4	1,2,3-Trichloropropane	4.95		3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	5.21		1.0	0.18
75-34-3	1,1-Dichloroethane	4.93		1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	5.39		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	4.95	J	5.0	0.81
563-58-6	1,1-Dichloropropene	5.20		1.0	0.15
75-35-4	1,1-Dichloroethene	5.14		1.0	0.14
79-00-5	1,1,2-Trichloroethane	5.02		1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	5.44		1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	5.10		1.0	0.14
95-50-1	1,2-Dichlorobenzene	5.00		1.0	0.13
107-06-2	1,2-Dichloroethane	5.13		1.0	0.13
541-73-1	1,3-Dichlorobenzene	5.06		1.0	0.16
142-28-9	1,3-Dichloropropane	5.35		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.09		1.0	0.14
78-93-3	2-Butanone (MEK)	17.1		6.0	1.8
106-46-7	1,4-Dichlorobenzene	5.17		1.0	0.16
78-87-5	1,2-Dichloropropane	5.23		1.0	0.13
594-20-7	2,2-Dichloropropane	4.91		1.0	0.20
591-78-6	2-Hexanone	17.1		5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	19.7		5.0	1.0
99-87-6	4-Isopropyltoluene	5.10		1.0	0.17
71-43-2	Benzene	5.10		1.0	0.16
67-64-1	Acetone	21.7		10	1.9
108-86-1	Bromobenzene	5.14		1.0	0.17
75-25-2	Bromoform	5.10		1.0	0.19
74-83-9	Bromomethane	4.74		2.0	0.21
56-23-5	Carbon tetrachloride	4.98		2.0	0.19
75-15-0	Carbon disulfide	4.17		2.0	0.45
95-49-8	2-Chlorotoluene	5.09		1.0	0.17
106-43-4	4-Chlorotoluene	5.33		1.0	0.17
108-90-7	Chlorobenzene	5.22		1.0	0.17
74-97-5	Chlorobromomethane	5.31		1.0	0.10
124-48-1	Chlorodibromomethane	5.08		1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26526/5

Matrix: Water Lab File ID: H6939.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 10:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	4.83		1.0	0.16
75-00-3	Chloroethane	5.10		2.0	0.41
74-87-3	Chloromethane	5.03		2.0	0.30
156-59-2	cis-1,2-Dichloroethene	4.99		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	5.19		1.0	0.16
74-95-3	Dibromomethane	5.28		1.0	0.17
75-27-4	Dichlorobromomethane	4.68		1.0	0.17
75-71-8	Dichlorodifluoromethane	4.96		2.0	0.31
100-41-4	Ethylbenzene	5.05		1.0	0.16
87-68-3	Hexachlorobutadiene	5.11		1.0	0.12
98-82-8	Isopropylbenzene	5.36		1.0	0.19
106-93-4	Ethylene Dibromide	5.43		1.0	0.18
75-09-2	Methylene Chloride	5.38		5.0	0.32
1634-04-4	Methyl tert-butyl ether	9.09		5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.4		2.0	0.34
91-20-3	Naphthalene	5.18		1.0	0.22
104-51-8	n-Butylbenzene	5.08		1.0	0.14
103-65-1	N-Propylbenzene	5.05		1.0	0.16
95-47-6	o-Xylene	5.23		1.0	0.19
100-42-5	Styrene	4.35		1.0	0.17
135-98-8	sec-Butylbenzene	4.98		1.0	0.17
98-06-6	tert-Butylbenzene	5.08		1.0	0.16
156-60-5	trans-1,2-Dichloroethene	5.10		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	5.17		1.0	0.19
127-18-4	Tetrachloroethene	5.16		1.0	0.20
108-88-3	Toluene	4.89		1.0	0.17
79-01-6	Trichloroethene	5.12		1.0	0.16
75-69-4	Trichlorofluoromethane	4.80		2.0	0.29
75-01-4	Vinyl chloride	4.97		1.5	0.40
110-54-3	Hexane	5.17		2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26526/5
Matrix: Water Lab File ID: H6939.D
Analysis Method: 8260B/DoD Date Collected: _____
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 10:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	116	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	104	75-120	
1868-53-7	Dibromofluoromethane (Surr)	103	85-115	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26668/1-A

Matrix: Solid Lab File ID: G7608.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 5(g) Date Analyzed: 08/12/2010 12:32

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.1		5.0	0.56
71-55-6	1,1,1-Trichloroethane	47.7		5.0	0.52
96-18-4	1,2,3-Trichloropropane	45.0		5.0	0.81
87-61-6	1,2,3-Trichlorobenzene	47.9		5.0	0.75
75-34-3	1,1-Dichloroethane	47.8		5.0	0.21
120-82-1	1,2,4-Trichlorobenzene	46.9		5.0	0.73
96-12-8	1,2-Dibromo-3-Chloropropane	47.5		10	0.60
563-58-6	1,1-Dichloropropene	49.2		5.0	0.54
75-35-4	1,1-Dichloroethene	49.5		5.0	0.59
79-00-5	1,1,2-Trichloroethane	51.4		5.0	0.88
79-34-5	1,1,2,2-Tetrachloroethane	51.8		5.0	0.61
95-63-6	1,2,4-Trimethylbenzene	46.7		5.0	0.58
95-50-1	1,2-Dichlorobenzene	46.9		5.0	0.45
107-06-2	1,2-Dichloroethane	51.9		5.0	0.70
541-73-1	1,3-Dichlorobenzene	47.0		5.0	0.48
142-28-9	1,3-Dichloropropane	51.3		5.0	0.51
108-67-8	1,3,5-Trimethylbenzene	47.6		5.0	0.57
78-93-3	2-Butanone (MEK)	212		20	1.8
106-46-7	1,4-Dichlorobenzene	47.4		5.0	0.78
78-87-5	1,2-Dichloropropane	49.3		5.0	0.55
594-20-7	2,2-Dichloropropane	49.7		5.0	0.44
591-78-6	2-Hexanone	222		20	4.9
108-10-1	4-Methyl-2-pentanone (MIBK)	223		20	4.4
99-87-6	4-Isopropyltoluene	45.4		5.0	0.49
71-43-2	Benzene	49.1		5.0	0.47
67-64-1	Acetone	195		20	5.4
108-86-1	Bromobenzene	47.8		5.0	0.49
75-25-2	Bromoform	51.5		5.0	0.23
74-83-9	Bromomethane	49.5		10	0.50
56-23-5	Carbon tetrachloride	45.9		5.0	0.63
75-15-0	Carbon disulfide	53.4		5.0	0.42
95-49-8	2-Chlorotoluene	48.9		5.0	0.51
106-43-4	4-Chlorotoluene	47.7		5.0	0.78
108-90-7	Chlorobenzene	43.3		5.0	0.54
74-97-5	Chlorobromomethane	50.7		5.0	0.30
124-48-1	Chlorodibromomethane	52.2		5.0	0.57

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26668/1-A

Matrix: Solid Lab File ID: G7608.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 5(g) Date Analyzed: 08/12/2010 12:32

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	48.4		10	0.29
75-00-3	Chloroethane	51.9		10	0.89
74-87-3	Chloromethane	50.8		10	0.77
156-59-2	cis-1,2-Dichloroethene	48.3		5.0	0.56
10061-01-5	cis-1,3-Dichloropropene	51.5		5.0	1.3
74-95-3	Dibromomethane	50.7		5.0	0.84
75-27-4	Dichlorobromomethane	49.4		5.0	0.22
75-71-8	Dichlorodifluoromethane	51.7		10	0.52
100-41-4	Ethylbenzene	44.5		5.0	0.67
87-68-3	Hexachlorobutadiene	44.2		5.0	0.55
98-82-8	Isopropylbenzene	48.1		5.0	0.59
106-93-4	Ethylene Dibromide	52.1		5.0	0.52
75-09-2	Methylene Chloride	50.0		5.0	0.75
1634-04-4	Methyl tert-butyl ether	102		20	0.34
179601-23-1	m-Xylene & p-Xylene	91.6		3.2	1.0
91-20-3	Naphthalene	48.6		5.0	0.63
104-51-8	n-Butylbenzene	46.6		5.0	0.56
103-65-1	N-Propylbenzene	47.3		5.0	0.58
95-47-6	o-Xylene	47.6		5.0	0.61
100-42-5	Styrene	49.9		5.0	0.63
135-98-8	sec-Butylbenzene	47.2		5.0	0.77
98-06-6	tert-Butylbenzene	46.8		5.0	0.50
156-60-5	trans-1,2-Dichloroethene	47.7		5.0	0.39
10061-02-6	trans-1,3-Dichloropropene	52.3		5.0	0.67
127-18-4	Tetrachloroethene	44.6		5.0	0.59
108-88-3	Toluene	46.6		5.0	0.69
79-01-6	Trichloroethene	46.8		5.0	0.23
75-69-4	Trichlorofluoromethane	48.7		10	1.0
75-01-4	Vinyl chloride	51.3		5.0	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26668/1-A
Matrix: Solid Lab File ID: G7608.D
Analysis Method: 8260B/DoD Date Collected: _____
Sample wt/vol: 5(g) Date Analyzed: 08/12/2010 12:32
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	108	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	95	85-120	
1868-53-7	Dibromofluoromethane (Surr)	94	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-26668/2-A

Matrix: Solid Lab File ID: G7609.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 5(g) Date Analyzed: 08/12/2010 12:55

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.8		5.0	0.56
71-55-6	1,1,1-Trichloroethane	47.9		5.0	0.52
96-18-4	1,2,3-Trichloropropane	46.2		5.0	0.81
87-61-6	1,2,3-Trichlorobenzene	47.3		5.0	0.75
75-34-3	1,1-Dichloroethane	47.5		5.0	0.21
120-82-1	1,2,4-Trichlorobenzene	46.7		5.0	0.73
96-12-8	1,2-Dibromo-3-Chloropropane	47.8		10	0.60
563-58-6	1,1-Dichloropropene	50.5		5.0	0.54
75-35-4	1,1-Dichloroethene	50.1		5.0	0.59
79-00-5	1,1,2-Trichloroethane	50.5		5.0	0.88
79-34-5	1,1,2,2-Tetrachloroethane	53.0		5.0	0.61
95-63-6	1,2,4-Trimethylbenzene	48.1		5.0	0.58
95-50-1	1,2-Dichlorobenzene	46.6		5.0	0.45
107-06-2	1,2-Dichloroethane	51.7		5.0	0.70
541-73-1	1,3-Dichlorobenzene	47.4		5.0	0.48
142-28-9	1,3-Dichloropropane	49.0		5.0	0.51
108-67-8	1,3,5-Trimethylbenzene	50.4		5.0	0.57
78-93-3	2-Butanone (MEK)	205		20	1.8
106-46-7	1,4-Dichlorobenzene	46.5		5.0	0.78
78-87-5	1,2-Dichloropropane	49.8		5.0	0.55
594-20-7	2,2-Dichloropropane	50.5		5.0	0.44
591-78-6	2-Hexanone	205		20	4.9
108-10-1	4-Methyl-2-pentanone (MIBK)	217		20	4.4
99-87-6	4-Isopropyltoluene	47.1		5.0	0.49
71-43-2	Benzene	50.2		5.0	0.47
67-64-1	Acetone	189		20	5.4
108-86-1	Bromobenzene	49.4		5.0	0.49
75-25-2	Bromoform	51.4		5.0	0.23
74-83-9	Bromomethane	45.8		10	0.50
56-23-5	Carbon tetrachloride	47.2		5.0	0.63
75-15-0	Carbon disulfide	50.6		5.0	0.42
95-49-8	2-Chlorotoluene	50.7		5.0	0.51
106-43-4	4-Chlorotoluene	50.1		5.0	0.78
108-90-7	Chlorobenzene	46.9		5.0	0.54
74-97-5	Chlorobromomethane	49.6		5.0	0.30
124-48-1	Chlorodibromomethane	49.5		5.0	0.57

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-26668/2-A

Matrix: Solid Lab File ID: G7609.D

Analysis Method: 8260B/DoD Date Collected: _____

Sample wt/vol: 5(g) Date Analyzed: 08/12/2010 12:55

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	48.5		10	0.29
75-00-3	Chloroethane	47.4		10	0.89
74-87-3	Chloromethane	47.8		10	0.77
156-59-2	cis-1,2-Dichloroethene	48.5		5.0	0.56
10061-01-5	cis-1,3-Dichloropropene	52.3		5.0	1.3
74-95-3	Dibromomethane	50.6		5.0	0.84
75-27-4	Dichlorobromomethane	49.2		5.0	0.22
75-71-8	Dichlorodifluoromethane	46.6		10	0.52
100-41-4	Ethylbenzene	45.6		5.0	0.67
87-68-3	Hexachlorobutadiene	45.7		5.0	0.55
98-82-8	Isopropylbenzene	50.7		5.0	0.59
106-93-4	Ethylene Dibromide	49.0		5.0	0.52
75-09-2	Methylene Chloride	49.8		5.0	0.75
1634-04-4	Methyl tert-butyl ether	99.2		20	0.34
179601-23-1	m-Xylene & p-Xylene	91.4		3.2	1.0
91-20-3	Naphthalene	48.6		5.0	0.63
104-51-8	n-Butylbenzene	46.8		5.0	0.56
103-65-1	N-Propylbenzene	48.9		5.0	0.58
95-47-6	o-Xylene	47.3		5.0	0.61
100-42-5	Styrene	50.0		5.0	0.63
135-98-8	sec-Butylbenzene	49.6		5.0	0.77
98-06-6	tert-Butylbenzene	49.1		5.0	0.50
156-60-5	trans-1,2-Dichloroethene	46.9		5.0	0.39
10061-02-6	trans-1,3-Dichloropropene	51.8		5.0	0.67
127-18-4	Tetrachloroethene	43.6		5.0	0.59
108-88-3	Toluene	47.2		5.0	0.69
79-01-6	Trichloroethene	47.6		5.0	0.23
75-69-4	Trichlorofluoromethane	43.6		10	1.0
75-01-4	Vinyl chloride	45.5		5.0	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-26668/2-A
Matrix: Solid Lab File ID: G7609.D
Analysis Method: 8260B/DoD Date Collected: _____
Sample wt/vol: 5(g) Date Analyzed: 08/12/2010 12:55
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.32) ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26762 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	97	85-115	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79	61-129	
460-00-4	4-Bromofluorobenzene (Surr)	95	85-120	
1868-53-7	Dibromofluoromethane (Surr)	89	71-126	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- MS Lab Sample ID: 280-6075-5 MS

Matrix: Water Lab File ID: H6942.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 11:57

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	4.93		1.0	0.17
71-55-6	1,1,1-Trichloroethane	4.62		1.0	0.16
96-18-4	1,2,3-Trichloropropane	5.22		3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	4.84		1.0	0.18
75-34-3	1,1-Dichloroethane	4.72		1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	5.00		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	4.52	J	5.0	0.81
563-58-6	1,1-Dichloropropene	4.91		1.0	0.15
75-35-4	1,1-Dichloroethene	5.04		1.0	0.14
79-00-5	1,1,2-Trichloroethane	4.92		1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	4.87		1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	4.87		1.0	0.14
95-50-1	1,2-Dichlorobenzene	4.85		1.0	0.13
107-06-2	1,2-Dichloroethane	4.68		1.0	0.13
541-73-1	1,3-Dichlorobenzene	4.63		1.0	0.16
142-28-9	1,3-Dichloropropane	4.90		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.84		1.0	0.14
78-93-3	2-Butanone (MEK)	15.9		6.0	1.8
106-46-7	1,4-Dichlorobenzene	4.89		1.0	0.16
78-87-5	1,2-Dichloropropane	4.93		1.0	0.13
594-20-7	2,2-Dichloropropane	4.72		1.0	0.20
591-78-6	2-Hexanone	15.7		5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	18.5		5.0	1.0
99-87-6	4-Isopropyltoluene	4.84		1.0	0.17
71-43-2	Benzene	4.83		1.0	0.16
67-64-1	Acetone	20.0		10	1.9
108-86-1	Bromobenzene	4.86		1.0	0.17
75-25-2	Bromoform	4.70		1.0	0.19
74-83-9	Bromomethane	4.52		2.0	0.21
56-23-5	Carbon tetrachloride	4.72		2.0	0.19
75-15-0	Carbon disulfide	4.20		2.0	0.45
95-49-8	2-Chlorotoluene	5.04		1.0	0.17
106-43-4	4-Chlorotoluene	4.96		1.0	0.17
108-90-7	Chlorobenzene	4.95		1.0	0.17
74-97-5	Chlorobromomethane	4.90		1.0	0.10
124-48-1	Chlorodibromomethane	4.85		1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- MS Lab Sample ID: 280-6075-5 MS

Matrix: Water Lab File ID: H6942.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 11:57

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	4.57		1.0	0.16
75-00-3	Chloroethane	5.05		2.0	0.41
74-87-3	Chloromethane	4.68		2.0	0.30
156-59-2	cis-1,2-Dichloroethene	4.78		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.84		1.0	0.16
74-95-3	Dibromomethane	4.70		1.0	0.17
75-27-4	Dichlorobromomethane	4.32		1.0	0.17
75-71-8	Dichlorodifluoromethane	4.82		2.0	0.31
100-41-4	Ethylbenzene	4.97		1.0	0.16
87-68-3	Hexachlorobutadiene	4.81		1.0	0.12
98-82-8	Isopropylbenzene	5.12		1.0	0.19
106-93-4	Ethylene Dibromide	5.09		1.0	0.18
75-09-2	Methylene Chloride	5.10		5.0	0.32
1634-04-4	Methyl tert-butyl ether	8.47		5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.98		2.0	0.34
91-20-3	Naphthalene	4.75		1.0	0.22
104-51-8	n-Butylbenzene	4.81		1.0	0.14
103-65-1	N-Propylbenzene	4.88		1.0	0.16
95-47-6	o-Xylene	4.95		1.0	0.19
100-42-5	Styrene	4.45		1.0	0.17
135-98-8	sec-Butylbenzene	4.77		1.0	0.17
98-06-6	tert-Butylbenzene	4.83		1.0	0.16
156-60-5	trans-1,2-Dichloroethene	4.63		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.53		1.0	0.19
127-18-4	Tetrachloroethene	4.96		1.0	0.20
108-88-3	Toluene	4.73		1.0	0.17
79-01-6	Trichloroethene	4.87		1.0	0.16
75-69-4	Trichlorofluoromethane	4.77		2.0	0.29
75-01-4	Vinyl chloride	4.70		1.5	0.40
110-54-3	Hexane	5.14		2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: NE SUMP- MS Lab Sample ID: 280-6075-5 MS
Matrix: Water Lab File ID: H6942.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 11:57
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	116	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	99	75-120	
1868-53-7	Dibromofluoromethane (Surr)	100	85-115	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- MSD Lab Sample ID: 280-6075-5 MSD

Matrix: Water Lab File ID: H6943.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 12:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
630-20-6	1,1,1,2-Tetrachloroethane	5.37		1.0	0.17
71-55-6	1,1,1-Trichloroethane	4.86		1.0	0.16
96-18-4	1,2,3-Trichloropropane	6.04		3.0	0.77
87-61-6	1,2,3-Trichlorobenzene	5.34		1.0	0.18
75-34-3	1,1-Dichloroethane	5.05		1.0	0.16
120-82-1	1,2,4-Trichlorobenzene	5.55		1.0	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	5.13		5.0	0.81
563-58-6	1,1-Dichloropropene	5.27		1.0	0.15
75-35-4	1,1-Dichloroethene	5.43		1.0	0.14
79-00-5	1,1,2-Trichloroethane	5.44		1.0	0.32
79-34-5	1,1,2,2-Tetrachloroethane	5.56		1.0	0.20
95-63-6	1,2,4-Trimethylbenzene	5.27		1.0	0.14
95-50-1	1,2-Dichlorobenzene	5.30		1.0	0.13
107-06-2	1,2-Dichloroethane	5.19		1.0	0.13
541-73-1	1,3-Dichlorobenzene	5.13		1.0	0.16
142-28-9	1,3-Dichloropropane	5.54		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.29	M	1.0	0.14
78-93-3	2-Butanone (MEK)	19.5		6.0	1.8
106-46-7	1,4-Dichlorobenzene	5.25		1.0	0.16
78-87-5	1,2-Dichloropropane	5.33		1.0	0.13
594-20-7	2,2-Dichloropropane	5.01		1.0	0.20
591-78-6	2-Hexanone	18.2		5.0	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	21.5		5.0	1.0
99-87-6	4-Isopropyltoluene	5.18		1.0	0.17
71-43-2	Benzene	5.23		1.0	0.16
67-64-1	Acetone	22.0		10	1.9
108-86-1	Bromobenzene	5.34		1.0	0.17
75-25-2	Bromoform	5.35		1.0	0.19
74-83-9	Bromomethane	5.02		2.0	0.21
56-23-5	Carbon tetrachloride	5.07		2.0	0.19
75-15-0	Carbon disulfide	4.19		2.0	0.45
95-49-8	2-Chlorotoluene	5.27		1.0	0.17
106-43-4	4-Chlorotoluene	4.11		1.0	0.17
108-90-7	Chlorobenzene	5.37		1.0	0.17
74-97-5	Chlorobromomethane	5.47		1.0	0.10
124-48-1	Chlorodibromomethane	5.34		1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- MSD Lab Sample ID: 280-6075-5 MSD

Matrix: Water Lab File ID: H6943.D

Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00

Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 12:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 26526 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
67-66-3	Chloroform	5.02		1.0	0.16
75-00-3	Chloroethane	5.33		2.0	0.41
74-87-3	Chloromethane	4.87		2.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.05		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	5.40		1.0	0.16
74-95-3	Dibromomethane	5.23		1.0	0.17
75-27-4	Dichlorobromomethane	4.89		1.0	0.17
75-71-8	Dichlorodifluoromethane	5.02		2.0	0.31
100-41-4	Ethylbenzene	5.33		1.0	0.16
87-68-3	Hexachlorobutadiene	4.87		1.0	0.12
98-82-8	Isopropylbenzene	5.40		1.0	0.19
106-93-4	Ethylene Dibromide	5.65		1.0	0.18
75-09-2	Methylene Chloride	5.83		5.0	0.32
1634-04-4	Methyl tert-butyl ether	9.84		5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.6		2.0	0.34
91-20-3	Naphthalene	5.50		1.0	0.22
104-51-8	n-Butylbenzene	5.10		1.0	0.14
103-65-1	N-Propylbenzene	5.10		1.0	0.16
95-47-6	o-Xylene	5.28		1.0	0.19
100-42-5	Styrene	4.81		1.0	0.17
135-98-8	sec-Butylbenzene	4.94		1.0	0.17
98-06-6	tert-Butylbenzene	5.10		1.0	0.16
156-60-5	trans-1,2-Dichloroethene	4.96		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	5.18		1.0	0.19
127-18-4	Tetrachloroethene	5.27		1.0	0.20
108-88-3	Toluene	5.08		1.0	0.17
79-01-6	Trichloroethene	5.19		1.0	0.16
75-69-4	Trichlorofluoromethane	5.06		2.0	0.29
75-01-4	Vinyl chloride	5.02		1.5	0.40
110-54-3	Hexane	5.02		2.0	0.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: NE SUMP- MSD Lab Sample ID: 280-6075-5 MSD
Matrix: Water Lab File ID: H6943.D
Analysis Method: 8260B/DoD Date Collected: 08/02/2010 08:00
Sample wt/vol: 20 (mL) Date Analyzed: 08/11/2010 12:19
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (75.53) ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 26526 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
2037-26-5	Toluene-d8 (Surr)	120	85-120	
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109	70-120	
460-00-4	4-Bromofluorobenzene (Surr)	106	75-120	
1868-53-7	Dibromofluoromethane (Surr)	109	85-115	

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_G Start Date: 08/11/2010 11:14Analysis Batch Number: 26761 End Date: 08/11/2010 15:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-26761/1		08/11/2010 11:14	1	G7558.D	DB-624 (60.32) 0.32 (mm)
IC 280-26761/2		08/11/2010 12:26	1	G7561.D	DB-624 (60.32) 0.32 (mm)
IC 280-26761/3		08/11/2010 12:49	1	G7562.D	DB-624 (60.32) 0.32 (mm)
IC 280-26761/4		08/11/2010 13:12	1	G7563.D	DB-624 (60.32) 0.32 (mm)
IC 280-26761/5		08/11/2010 13:36	1	G7564.D	DB-624 (60.32) 0.32 (mm)
IC 280-26761/6		08/11/2010 13:59	1	G7565.D	DB-624 (60.32) 0.32 (mm)
IC 280-26761/7		08/11/2010 14:22	1	G7566.D	DB-624 (60.32) 0.32 (mm)
IC 280-26761/8		08/11/2010 14:46	1	G7567.D	DB-624 (60.32) 0.32 (mm)
ICV 280-26761/9		08/11/2010 15:09	1	G7568.D	DB-624 (60.32) 0.32 (mm)
ICV 280-26761/10		08/11/2010 15:32	1	G7569.D	DB-624 (60.32) 0.32 (mm)
ICV 280-26761/11		08/11/2010 15:55	1	G7570.D	DB-624 (60.32) 0.32 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_G Start Date: 08/12/2010 07:52

Analysis Batch Number: 26762 End Date: 08/12/2010 19:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-26762/1		08/12/2010 07:52	1	G7597.D	DB-624 (60.32) 0.32 (mm)
CCV 280-26762/2		08/12/2010 08:14	1	G7598.D	DB-624 (60.32) 0.32 (mm)
IC 280-26762/3		08/12/2010 09:22	1	G7600.D	DB-624 (60.32) 0.32 (mm)
IC 280-26762/4		08/12/2010 09:45	1	G7601.D	DB-624 (60.32) 0.32 (mm)
IC 280-26762/5		08/12/2010 10:08	1	G7602.D	DB-624 (60.32) 0.32 (mm)
IC 280-26762/6		08/12/2010 10:31	1	G7603.D	DB-624 (60.32) 0.32 (mm)
ICIS 280-26762/7		08/12/2010 10:54	1	G7604.D	DB-624 (60.32) 0.32 (mm)
IC 280-26762/8		08/12/2010 11:17	1	G7605.D	DB-624 (60.32) 0.32 (mm)
IC 280-26762/9		08/12/2010 11:40	1	G7606.D	DB-624 (60.32) 0.32 (mm)
ICV 280-26762/10		08/12/2010 12:09	1	G7607.D	DB-624 (60.32) 0.32 (mm)
LCS 280-26668/1-A		08/12/2010 12:32	1	G7608.D	DB-624 (60.32) 0.32 (mm)
LCSD 280-26668/2-A		08/12/2010 12:55	1	G7609.D	DB-624 (60.32) 0.32 (mm)
MB 280-26668/3-A		08/12/2010 13:19	1	G7610.D	DB-624 (60.32) 0.32 (mm)
280-6075-1	SS1-	08/12/2010 14:09	1	G7611.D	DB-624 (60.32) 0.32 (mm)
280-6075-2	SS2-	08/12/2010 14:32	1	G7612.D	DB-624 (60.32) 0.32 (mm)
280-6075-3	SS3-	08/12/2010 14:55	1	G7613.D	DB-624 (60.32) 0.32 (mm)
280-6075-4	SS4-	08/12/2010 15:18	1	G7614.D	DB-624 (60.32) 0.32 (mm)
280-6075-8	SS1-DUP-	08/12/2010 15:42	1	G7615.D	DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 16:05	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 16:28	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 16:51	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 17:14	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 17:37	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 18:00	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 18:23	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 18:46	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 19:10	1		DB-624 (60.32) 0.32 (mm)
ZZZZZ		08/12/2010 19:33	1		DB-624 (60.32) 0.32 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_H Start Date: 08/10/2010 06:21

Analysis Batch Number: 26333 End Date: 08/10/2010 15:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-26333/1		08/10/2010 06:21	1	H6884.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/2		08/10/2010 06:31	1	H6885.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/3		08/10/2010 06:53	1	H6886.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/4		08/10/2010 07:14	1	H6887.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/5		08/10/2010 07:35	1	H6888.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/6		08/10/2010 07:57	1	H6889.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/7		08/10/2010 08:18	1	H6890.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/8		08/10/2010 08:39	1	H6891.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/9		08/10/2010 09:01	1	H6892.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/10		08/10/2010 09:23	1	H6893.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/11		08/10/2010 09:44	1	H6894.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/12		08/10/2010 10:06	1	H6895.D	DB-624 (75.53) 0.53 (mm)
ICIS 280-26333/13		08/10/2010 10:27	1	H6896.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/14		08/10/2010 10:49	1	H6897.D	DB-624 (75.53) 0.53 (mm)
IC 280-26333/15		08/10/2010 11:10	1	H6898.D	DB-624 (75.53) 0.53 (mm)
ICV 280-26333/16		08/10/2010 11:32	1	H6899.D	DB-624 (75.53) 0.53 (mm)
ICV 280-26333/17		08/10/2010 11:54	1	H6900.D	DB-624 (75.53) 0.53 (mm)
ICV 280-26333/18		08/10/2010 12:15	1	H6901.D	DB-624 (75.53) 0.53 (mm)
ICV 280-26333/19		08/10/2010 12:37	1	H6902.D	DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/10/2010 12:58	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/10/2010 13:42	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/10/2010 14:03	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/10/2010 14:25	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/10/2010 14:46	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/10/2010 15:08	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/10/2010 15:29	1		DB-624 (75.53) 0.53 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSV_H Start Date: 08/11/2010 08:25

Analysis Batch Number: 26526 End Date: 08/12/2010 01:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-26526/1		08/11/2010 08:25	1	H6932.D	DB-624 (75.53) 0.53 (mm)
CCV 280-26526/2		08/11/2010 08:32	1	H6933.D	DB-624 (75.53) 0.53 (mm)
CCV 280-26526/3		08/11/2010 08:54	1	H6934.D	DB-624 (75.53) 0.53 (mm)
MB 280-26526/4		08/11/2010 10:27	1	H6938.D	DB-624 (75.53) 0.53 (mm)
LCS 280-26526/5		08/11/2010 10:48	1	H6939.D	DB-624 (75.53) 0.53 (mm)
280-6075-5	NE SUMP-	08/11/2010 11:36	1	H6941.D	DB-624 (75.53) 0.53 (mm)
280-6075-5 MS	NE SUMP- MS	08/11/2010 11:57	1	H6942.D	DB-624 (75.53) 0.53 (mm)
280-6075-5 MSD	NE SUMP- MSD	08/11/2010 12:19	1	H6943.D	DB-624 (75.53) 0.53 (mm)
280-6075-6	SW SUMP-	08/11/2010 13:06	1	H6945.D	DB-624 (75.53) 0.53 (mm)
280-6075-7	RINSATE	08/11/2010 13:27	1	H6946.D	DB-624 (75.53) 0.53 (mm)
280-6075-9	TRIP BLANK	08/11/2010 13:49	1	H6947.D	DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 14:43	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 15:05	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 15:26	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 15:48	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 16:10	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 16:31	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 16:53	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 17:15	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 17:36	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 17:58	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 18:20	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 18:41	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 19:03	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 19:24	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 19:46	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 20:07	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 20:29	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 20:50	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 21:12	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 21:33	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 21:55	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 22:16	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 22:38	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 22:59	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 23:21	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/11/2010 23:42	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/12/2010 00:03	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/12/2010 00:25	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/12/2010 00:46	1		DB-624 (75.53) 0.53 (mm)
ZZZZZ		08/12/2010 01:08	1		DB-624 (75.53) 0.53 (mm)

GC/MS Continuing Calibration Review Checklist

Instrument ID and Date: H 8/11/10Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV ☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOAVOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Continuing Calibration	Review Items	Level 1		Level 2	Comments
		Yes	No	N/A	
1.	BFB/DFTPP meets criteria?	/			
2.	ICAL date and instrument ID verified?	/			
3.	Do SPCC RRFs and CCC %Ds meet method criteria?	/			
4.	Does %D meet criteria for non-CCC compounds?	/			
5.	Isomeric pairs checked for correct peak assignment?	/			
6.	Standards traceability properly documented?	/			
7.	Manual integrations documented and checked?	/		/	
8.	Do the Internal Standards meet criteria for %D against ICAL?	/			

1st Level Reviewer: CmDate: 8/12/102nd Level Reviewer: DFDate: 8/12/10Revision 0
9/18/01

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00112150

Instrument: C

ISS/MSVOA #: DEN-MS-0010 (8260B/624/524.2)
(Circle)
Purge Volume: (20mL/5mL/5g)
(Circle)
Tune Time: _____

All IS and SS are within control unless noted.

Sequence Name: C:\HPCHEM\1\SEQUENCE\081210A.S
Comment: 8/10/10
Operator: REINHARDT
Data Path: C:\HPCHEM\1\DATA\081210A.b\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
(X) Full Method (X) Inject Anyway
() Reprocessing Only () Don't Inject

Line Type	Vial	DataFile	Method	Sample Name
1 Sample	100	G7597	BFBTUN	BFB, 1uL 0752
2 Sample	18	G7598	8260S	CCV, M
3 Sample	19	G7599	8260S	CCV, S
4 Sample	20	G7600	8260S	IC, S002 2.5-1
5 Sample	21	G7601	8260S	IC, S005 4.25-1
6 Sample	22	G7602	8260S	IC, S010 17.5-1
7 Sample	23	G7603	8260S	IC, S020 25-1
8 Sample	24	G7604	8260S	IC, S050 62.5-1
9 Sample	25	G7605	8260S	IC, S100 112.5-1
10 Sample	26	G7606	8260S	IC, S200 225-1
11 Sample	27	G7607	8260S	ICV, SA 62.5-1
12 Sample	28	G7608	8260S	LCS, 1
13 Sample	29	G7609	8260S	LCSD, 1
14 Sample	30	G7610	8260S	MB
15 Sample	31	G7611	8260S	280-6075-e-1-a
16 Sample	32	G7612	8260S	280-6075-e-2-a
17 Sample	33	G7613	8260S	280-6075-e-3-a
18 Sample	34	G7614	8260S	280-6075-e-4-a
19 Sample	35	G7615	8260S	280-6075-e-8-a
20 Sample	36	G7616	8260S	280-5988-c-3-a
21 Sample	37	G7617	8260S	280-5988-c-4-a
22 Sample	38	G7618	8260S	280-5988-c-5-a
23 Sample	39	G7619	8260S	280-6033-e-1-a
24 Sample	40	G7620	8260S	280-6033-e-2-a
25 Sample	41	G7621	8260S	280-6033-c-12-a
26 Sample	42	G7622	8260S	280-6033-c-13-a
27 Sample	43	G7623	8260S	280-6122-a-33-a
28 Sample	44	G7624	8260S	280-6122-a-43-a
29 Sample	45	G7625	8260S	280-6122-a-47-a
30 Sample	46	G7626	8260S	BLK

BFB	pH	Comments	ALS
☒ mv-BFB_0 37895			
MAIN CCV			
☒ mv-main_0 10 250591			
☒ mv-main gas_0 7 251207			
SUPP CCV			
☒ mv-supp_0 7 247446			
☒ mv-2 cleve_04 233120			
☒ mv-f123a_0			
ICV/LCS/MS/MSD			
☒ mv-524 A_0 8 250810			
☒ mv-624 A_0 4 211310			
☒ mv-SS Gas/ke_0 1 251526			
☒ mv-secsrc B_02 193603			
☒ mv-secsrc C_06 195999			
☒ mv-SS Supp_0 5 197798			
☒ mv-SS 2 Cleve_02 57757			
☒ mv-BO mix A_0 3 270282			
☒ mv-Acrol/Acryl_05 224780			
☒ Acrid, 279909			
ICV/LCS/MS/MSD			
☒ mv-524 B_0			
☒ mv-624 B_0			
☒ mv-Main Gas/ke_0			
☒ mv-BO mix B_0 3 270292			
☒ mv-IS/SS_0			
☒ mv-Archon IS_0			
☒ mv-Archon SS_0			

GC/MS Continuing Calibration Review Checklist

Instrument ID and Date: 6 Main Only 8/12/10Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA _____VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No	N/A	
Continuing Calibration				
1. BFB/DFTPP meets criteria?	/			
2. ICAL date and instrument ID verified?	/			
3. Do SPCC RRFs and CCC %Ds meet method criteria?	/			
4. Does %D meet criteria for non-CCC compounds?	/			
5. Isomeric pairs checked for correct peak assignment?	/			
6. Standards traceability properly documented?	/			
7. Manual integrations documented and checked?	/		N/A	
8. Do the Internal Standards meet criteria for %D against ICAL?	/			

1st Level Reviewer: AdDate: 8/12/102nd Level Reviewer: cmDate: 8/12/10

Revision 0

9/18/01

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00112153

GC/MS Initial Calibration Review Checklist

Instrument ID and Date: H 8/10/10 Batch 2463 MAIDCalibration Event 2463Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV ☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Initial Calibration				
1. BFB/DFTPP meets criteria?	/		/	
2. ICAL date and instrument ID verified?	/		/	
3. Does the Form VI match the data in the Target source method?	/		/	
4. Sufficient number of calibration points used?	/		/	
5. Reasons for removal of points documented?	/		/	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	/		/	
7. If RRF used for ICAL, were all compounds within 15% RSD?	/		/	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	/		/	
9. Isomeric pairs checked for correct peak assignment?	/		/	
10. Data checked for detector saturation?	/		/	
11. Standards traceability properly documented?	/		/	
12. Manual integrations documented and checked?	/		/	
13. 2 nd source ICV recovery 75-125% ($\pm 25\%$ diff) for DoD projects, 65-135% ($\pm 35\%$, or $\pm 55\%$ of expected for poor performers) for non-DoD? Exceptions noted in comment section.	/		/	TBA @ 218.8%

1st Level Reviewer: CMDate: 8/11/102nd Level Reviewer: SMDate: 8/11/10

Revision 2.3

04/30/2010

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GC/MS Initial Calibration Review Checklist

Instrument ID and Date: H 8/10/10 SUP
 Calibration Event 2464 Batch 26333

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Initial Calibration				
1. ~~BFB~~ /DFTPP meets criteria?	☒		☒	
2. ICAL date and instrument ID verified?	☒		☒	
3. Does the Form VI match the data in the Target source method?	☒		☒	
4. Sufficient number of calibration points used?	☒		☒	
5. Reasons for removal of points documented?	☒		☒	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	☒		☒	
7. If RRF used for ICAL, were all compounds within 15% RSD?	☒		☒	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	☒		☒	
9. Isomeric pairs checked for correct peak assignment?	☒		☒	
10. Data checked for detector saturation?	☒		☒	
11. Standards traceability properly documented?	☒		☒	
12. Manual integrations documented and checked?	☒		☒	
13. 2 nd source ICV recovery 75-125% (~~45%~~) for DoD projects, 65-135% ($\pm 35\%$ or $\pm 55\%$ of expected for poor performers) for non-DoD? Exceptions noted in comment section.	☒		☒	C-19-D-2-B @ 66.3%

1st Level Reviewer: CM Date: 8/11/10

2nd Level Reviewer: SA Date: 8/11/10

GC/MS Initial Calibration Review Checklist

Instrument ID and Date: C Main Soil 8/11/10
Calibration Event 2508 Batch 26761 9/10/11

(7015 26762 / 7)

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA _____VOA Preparation ☐ 5mL ☐ 20mL ☒ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Initial Calibration				
1. BFB/DFTPP meets criteria?	/		/	
2. ICAL date and instrument ID verified?	/		/	
3. Does the Form VI match the data in the Target source method?	/		/	
4. Sufficient number of calibration points used?	/		/	
5. Reasons for removal of points documented?	/		/	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	/		/	
7. If RRF used for ICAL, were all compounds within 15% RSD?	/		N/A	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	/		/	
9. Isomeric pairs checked for correct peak assignment?	/		/	
10. Data checked for detector saturation?	/		/	
11. Standards traceability properly documented?	/		/	
12. Manual integrations documented and checked?	/		N/A	
13. 2 nd source ICV recovery 75-125% (~~±25%~~) for DoD projects, 65-135% (±35%, or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	/		/	

1st Level Reviewer: AFDate: 8/13/102nd Level Reviewer: EmDate: 8/13/10

Revision 2.3

04/30/2010

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00112158

All IS and SS are within control unless noted.

Instrument: 6

Comments:

ISS/MSVOA #: DEN-MS-0010 (82003/624/524.2)
(Circle)
Purge Volume: (20mL/5mL) 50
(Circle)
Tune Time: _____

Sequence Name: C:\HPCHEM\1\SEQUENCE\0811110.S

Operator: REINHARDT

Data Path: C:\HPCHEM\1\DATA\0811110A.b\

Pre-Seq Cmd:

Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
(X) Full Method () Inject Anyway
() Reprocessing Only () Don't Inject

BFB
☐ mv-BFB_0 37995
MAIN CCV
☒ mv-main_0 10 250592
☒ mv-main gas_0 7 251207

SUPP CCV
☐ mv-supp_0 7 247446
☐ mv-2 cleve_04 233120
☐ mv-f123a_0

ICV/LCS/MS/MSD
☒ mv-524 A_0 8 250910
☒ mv-624 A_0 4 211310
☒ mv-SS Gas/ke_0 7 251526
☒ mv-secsrc B_0 2 193663
☒ mv-SS Secsrc C_0 6 195399
☒ mv-SS Supp_0 5 197798
☒ mv-SS 2 Cleve_0 2 57757
☒ mv-BO mix A_0 3 270282
☒ mv-Acrol/Acyl_0 5 224780
Acid. 279909
ICV/LCS/MS/MSD

☐ mv-524 B_0
☐ mv-624 B_0
☐ mv-Main Gas/ke_0
☐ mv-BO mix B_0 3 270292
☒ mv-IS/SS_0
☒ mv-Archon IS_0
☒ mv-Archon SS_0

Line Type	Vial	DataFile	Method	Sample Name
1 Sample	100	G7558	BFB	BFB, #37996, 1uL
2 Sample	18	G7559	8260S	CCV, M
3 Sample	19	G7560	8260S	CCV, S
4 Sample	20	G7561	8260S	IC, M002 2.5-1
5 Sample	21	G7562	8260S	IC, M005 6.25-1
6 Sample	22	G7563	8260S	IC, M010 12.5-1
7 Sample	23	G7564	8260S	IC, M020 75-1
8 Sample	24	G7565	8260S	IC, M050 6.25-1
9 Sample	25	G7566	8260S	IC, M100 12.5-1
10 Sample	26	G7567	8260S	IC, M200 25-1
11 Sample	27	G7568	8260S	ICV, B 6.25
12 Sample	28	G7569	8260S	ICV, C
13 Sample	29	G7570	8260S	ICV, A

GC/MS Initial Calibration Review Checklist

Instrument ID and Date: A SUPP Soil 8/12/10
Calibration Event 250a Batch 26762 / 10Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA _____VOA Preparation ☐ 5mL ☐ 20mL ☒ 5035 Low ☐ 5035 High ☒ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Initial Calibration				
1. BFB/DFTPP meets criteria?	/		/	
2. ICAL date and instrument ID verified?	/		/	
3. Does the Form VI match the data in the Target source method?	/		/	
4. Sufficient number of calibration points used?	/		/	Some points < RL removed
5. Reasons for removal of points documented?	/		/	
6. %RSD or correlation coefficient within method limits?	/		/	
7. If RRF used for ICAL, were all compounds within 15% RSD?	/		/	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	/		/	
9. Isomeric pairs checked for correct peak assignment?	/		/	
10. Data checked for detector saturation?	/		/	
11. Standards traceability properly documented?	/		/	
12. Manual integrations documented and checked?	/		/	
13. 2 nd source ICV recovery 75-125% ($\pm 25\%$ drift) for DoD projects, 65-135% ($\pm 35\%$, or $\pm 55\%$ of expected for poor performers) for non-DoD? Exceptions noted in comment section.	/		/	cis 1,4 Dichloro 2 butene + 70.77% All Dgd 220K

Apt. = Ethylene Oxide 12500

1st Level Reviewer: SVDate: 8/12/102nd Level Reviewer: SVDate: 8/13/10

Instrument: Ca

All IS and SS are within control unless noted.

Sequence Name: C:\HPCHEM\1\SEQUENCE\081210A.S

Comment:

Operator: REINHARDT

Data Path: C:\HPCHEM\1\DATA\081210A.b\

Pre-Seq Cmd:

Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

Line Type	Vial	DataFile	Method	Sample Name	BFB	pH	Comments	ALS
1 Sample	100	G7597	BFBTUN	BFB, 1uL	31495			
2 Sample	18	G7598	8260S	CCV, M				
3 Sample	19	G7599	8260S	CCV, S				
4 Sample	20	G7600	8260S	IC, S002 2.5-1				
5 Sample	21	G7601	8260S	IC, S005 6.25-1				
6 Sample	22	G7602	8260S	IC, S010 12.5-1				
7 Sample	23	G7603	8260S	IC, S020 25-1				
8 Sample	24	G7604	8260S	IC, S050 62.5-1				
9 Sample	25	G7605	8260S	IC, S100 125-1				
10 Sample	26	G7606	8260S	IC, S200 250-1				
11 Sample	27	G7607	8260S	ICV, SA 625-1				
12 Sample	28	G7608	8260S	LCSD, 1				
13 Sample	29	G7609	8260S	LCSD, 1				
14 Sample	30	G7610	8260S	MB				
15 Sample	31	G7611	8260S	280-6075-e-1-a				
16 Sample	32	G7612	8260S	280-6075-e-2-a				
17 Sample	33	G7613	8260S	280-6075-e-3-a				
18 Sample	34	G7614	8260S	280-6075-e-4-a				
19 Sample	35	G7615	8260S	280-6075-e-8-a				
20 Sample	36	G7616	8260S	280-5988-c-3-a				
21 Sample	37	G7617	8260S	280-5988-c-4-a				
22 Sample	38	G7618	8260S	280-5988-c-5-a				
23 Sample	39	G7619	8260S	280-6033-e-1-a				
24 Sample	40	G7620	8260S	280-6033-e-2-a				
25 Sample	41	G7621	8260S	280-6033-c-12-a				
26 Sample	42	G7622	8260S	280-6033-c-13-a				
27 Sample	43	G7623	8260S	280-6122-a-33-a				
28 Sample	44	G7624	8260S	280-6122-a-43-a				
29 Sample	45	G7625	8260S	280-6122-a-47-a				
30 Sample	46	G7626	8260S	BLK				

GC/MS VOA Worksheet

Batch Number: 280-26668

Method: 5035

Analyst: Reinhardt, Jason

Date Open: Aug 12 2010 1:44PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Tare Weight	Vial and Sample weight	Initial weight/volume of sample	Final weight/volume of sample
LCS~280-26668/1		5035, 8260B/DoD		30 g	35 g	5 g	5 mL
LCSD~280-26668/2		5035, 8260B/DoD		30 g	35 g	5 g	5 mL
MB~280-26668/3		5035, 8260B/DoD		30 g	35.05 g	5.05 g	5 mL
280-6075-E-1	SS1-	5035, 8260B/DoD	T	31.088 g	36.315 g	5.227 g	5 mL
280-6075-E-2	SS2-	5035, 8260B/DoD	T	30.992 g	36.343 g	5.351 g	5 mL
280-6075-E-3	SS3-	5035, 8260B/DoD	T	30.759 g	35.242 g	4.483 g	5 mL
280-6075-E-4	SS4-	5035, 8260B/DoD	T	30.728 g	37.021 g	6.293 g	5 mL
280-6075-E-8	SS1-DUP-	5035, 8260B/DoD	T	30.731 g	36.569 g	5.838 g	5 mL
280-5988-C-3			T	32.876 g	38.882 g	6.006 g	5 mL
280-5988-C-4			T	33.244 g	39.672 g	6.428 g	5 mL
280-5988-C-5			T	32.857 g	37.141 g	4.284 g	5 mL
280-6033-E-1			T	37.966 g	32.966 g	5 g	5 mL
280-6033-E-2			T	33.385 g	39.957 g	6.572 g	5 mL
280-6033-C-12			T	32.792 g	37.549 g	4.757 g	5 mL
280-6033-C-13			T	33.198 g	37.891 g	4.693 g	5 mL
280-6122-A-33			T	31.529 g	36.177 g	4.648 g	5 mL
280-6122-A-43			T	31.570 g	36.653 g	5.083 g	5 mL
280-6122-A-47			T	31.328 g	36.686 g	5.358 g	5 mL

GC/MS VOA Worksheet

Batch Number: 280-26668

Method: 5035

Analyst: Reinhardt, Jason

Date Open: Aug 12 2010 1:44PM

Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
LCS~280-26668/1		5035, 8260B/DoD		
LCSD~280-26668/2		5035, 8260B/DoD		
MB~280-26668/3		5035, 8260B/DoD		
280-6075-E-1	SS1-	5035, 8260B/DoD	T	
280-6075-E-2	SS2-	5035, 8260B/DoD	T	
280-6075-E-3	SS3-	5035, 8260B/DoD	T	
280-6075-E-4	SS4-	5035, 8260B/DoD	T	
280-6075-E-8	SS1-DUP-	5035, 8260B/DoD	T	
280-5988-C-3			T	
280-5988-C-4			T	
280-5988-C-5			T	
280-6033-E-1			T	
280-6033-E-2			T	
280-6033-C-12			T	
280-6033-C-13			T	
280-6122-A-33			T	
280-6122-A-43			T	
280-6122-A-47			T	

Batch Comment:

bal 24850252

Method 8270C DOD

Semivolatile Compounds (GC/MS) by
Method 8270/DOD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): Vf-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
SS1-	280-6075-1	75	78	66	74	89	95
SS2-	280-6075-2	70	73	64	71	88	89
SS3-	280-6075-3	75	76	65	69	78	84
SS4-	280-6075-4	78	82	69	78	95	97
SS1-DUP-	280-6075-8	73	76	65	70	84	87
	MB 280-26179/1-A	75	74	69	71	78	89
	LCS 280-26179/3-A	71	74	63	71	89	87
	LCSD 280-26179/4-A	73	77	65	72	83	83

QC LIMITS

2FP = 2-Fluorophenol (Surr)	35-105
PHL = Phenol-d5 (Surr)	40-100
NBZ = Nitrobenzene-d5 (Surr)	35-100
FBP = 2-Fluorobiphenyl	45-105
TBP = 2,4,6-Tribromophenol (Surr)	35-125
TPH = Terphenyl-d14 (Surr)	30-125

Column to be used to flag recovery values

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): Vf-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
NE SUMP-	280-6075-5	85	94	83	83	106	107
SW SUMP-	280-6075-6	85	92	82	80	103	109
SW SUMP- RE	280-6075-6 RE	80	83	83	68	86	83
RINSATE	280-6075-7	81	88	80	82	99	104
	MB 280-25954/1-A	76	90	57	25 Q	98	107
	MB 280-28094/1-A	85	89	85	64	96	92
	LCS 280-25954/2-A	76	92	57	45 Q	105	98
	LCS 280-28094/2-A	85	88	83	62	98	94
	LCSD 280-25954/17-A	86	98	72	55	109	95
	LCSD 280-28094/3-A	85	91	88	71	100	96

QC LIMITS

2FP = 2-Fluorophenol (Surr)	20-110
PHL = Phenol-d5 (Surr)	10-115
NBZ = Nitrobenzene-d5 (Surr)	40-110
FBP = 2-Fluorobiphenyl	50-110
TBP = 2,4,6-Tribromophenol (Surr)	40-125
TPH = Terphenyl-d14 (Surr)	50-135

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: D7609.D
 Lab ID: LCS 280-25954/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	80.0	34.4	43	45-110	Q
Acenaphthylene	80.0	34.4	43	50-105	Q
Anthracene	80.0	69.3	87	55-110	
Benzo[a]anthracene	80.0	71.0	89	55-110	
Benzoic acid	80.0	69.0 J	86	10-125	
Benzo[b]fluoranthene	80.0	69.2	87	45-120	
Benzo[k]fluoranthene	80.0	73.8	92	45-125	
Benzyl alcohol	80.0	79.4	99	30-110	
Bis(2-chloroethoxy)methane	80.0	64.4	81	45-105	
Bis(2-chloroethyl)ether	80.0	60.1	75	35-110	
4-Bromophenyl phenyl ether	80.0	58.6	73	50-115	
Butyl benzyl phthalate	80.0	68.0	85	45-115	
2,4-Dimethylphenol	80.0	50.7	63	30-110	
Dimethyl phthalate	80.0	74.2	93	25-125	
4,6-Dinitro-2-methylphenol	80.0	76.0 J	95	40-130	
2,4-Dinitrophenol	80.0	83.2	104	15-140	
2,4-Dinitrotoluene	80.0	77.5	97	50-120	
2,6-Dinitrotoluene	80.0	69.0	86	50-115	
Fluoranthene	80.0	76.2	95	55-115	
Fluorene	80.0	49.1	61	50-110	
1,2-Diphenylhydrazine	80.9	51.0	63	55-115	
Hexachlorobenzene	80.0	70.9	89	50-110	
Hexachlorobutadiene	80.0	25.9 J	32	25-105	
Hexachloroethane	80.0	24.1	30	30-95	
N-Nitrosodiphenylamine	68.3	53.9	79	50-110	
N-Nitrosodi-n-propylamine	80.0	65.8	82	35-130	
1,4-Dichlorobenzene	80.0	29.1	36	30-100	
2-Chloronaphthalene	80.0	30.3	38	50-105	Q
2-Chlorophenol	80.0	66.7	83	35-105	
4-Chlorophenyl phenyl ether	80.0	47.8	60	50-110	
Chrysene	80.0	70.1	88	55-110	
Dibenz(a,h)anthracene	80.0	74.8	94	40-125	
Dibenzofuran	80.0	39.9	50	55-105	Q
Benzo[g,h,i]perylene	80.0	75.8	95	40-125	
Benzo[a]pyrene	80.0	60.3	75	55-110	
Di-n-butyl phthalate	80.0	73.4	92	55-115	
1,2-Dichlorobenzene	80.0	30.2	38	35-100	
1,3-Dichlorobenzene	80.0	29.1	36	30-100	
3,3'-Dichlorobenzidine	80.0	42.7 J	53	20-110	
2,4-Dichlorophenol	80.0	66.0	83	50-105	
Diethyl phthalate	80.0	74.4	93	40-120	
Indeno[1,2,3-cd]pyrene	80.0	80.5	101	45-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: D7609.D
 Lab ID: LCS 280-25954/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Isophorone	80.0	66.1	83	50-110	
2-Methylnaphthalene	80.0	29.0	36	45-105	Q
2-Methylphenol	80.0	70.1	88	40-110	
Naphthalene	80.0	31.9	40	40-100	
2-Nitroaniline	80.0	77.7	97	50-115	
3-Nitroaniline	80.0	77.9	97	20-125	
4-Nitroaniline	80.0	75.6	95	35-120	
Nitrobenzene	80.0	53.9	67	45-110	
2-Nitrophenol	80.0	61.7	77	40-115	
4-Nitrophenol	80.0	72.4	90	10-125	
Pyrene	80.0	68.4	85	50-130	
Pentachlorophenol	80.0	80.3	100	40-115	
Phenanthrene	80.0	66.3	83	50-115	
1,2,4-Trichlorobenzene	80.0	24.9	31	35-105	Q
2,4,5-Trichlorophenol	80.0	72.1	90	50-110	
2,4,6-Trichlorophenol	80.0	63.7	80	50-115	
Phenol	80.0	71.5	89	10-115	
Carbazole	80.0	73.8	92	50-115	
N-Nitrosodimethylamine	80.0	73.1	91	25-110	
Bis(2-ethylhexyl) phthalate	80.0	71.8	90	40-125	
Di-n-octyl phthalate	80.0	68.9	86	35-135	
3 & 4 Methylphenol	160	145	91	30-110	
4-Chloro-3-methylphenol	80.0	74.1	93	45-110	
2,2'-oxybis[1-chloropropane]	80.0	56.3	70	25-130	
4-Chloroaniline	80.0	64.0	80	15-110	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: D7565.D
 Lab ID: LCS 280-26179/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	2520	1780	71	45-110	
Acenaphthylene	2520	1780	71	45-105	
Anthracene	2520	1980	79	55-105	
Benzo[a]anthracene	2520	2030	81	50-110	
Benzoic acid	2520	924 J	37	10-110	
Benzo[b]fluoranthene	2520	2200	87	45-115	
Benzo[k]fluoranthene	2520	1920	76	45-125	
Benzyl alcohol	2520	1930	77	20-125	
Bis(2-chloroethoxy)methane	2520	1670	66	45-110	
Bis(2-chloroethyl)ether	2520	1590	63	40-105	
4-Bromophenyl phenyl ether	2520	1980	79	45-115	
Butyl benzyl phthalate	2520	1840	73	50-125	
2,4-Dimethylphenol	2520	1540	61	30-105	
Dimethyl phthalate	2520	2020	80	50-110	
4,6-Dinitro-2-methylphenol	2520	1180 J	47	30-135	
2,4-Dinitrophenol	2520	746 J	30	15-130	
2,4-Dinitrotoluene	2520	2160	86	50-115	
2,6-Dinitrotoluene	2520	1920	76	50-110	
Fluoranthene	2520	2170	86	55-115	
Fluorene	2520	1880	75	50-110	
1,2-Diphenylhydrazine	2540	1780	70	54-120	
Hexachlorobenzene	2520	2120	84	45-120	
Hexachlorobutadiene	2520	1570	63	40-115	
Hexachloroethane	2520	1420	56	35-110	
N-Nitrosodiphenylamine	2150	1620	76	50-115	
N-Nitrosodi-n-propylamine	2520	1690	67	40-115	
1,4-Dichlorobenzene	2520	1580	63	35-105	
2-Chloronaphthalene	2520	1790	71	45-105	
2-Chlorophenol	2520	1700	67	45-105	
4-Chlorophenyl phenyl ether	2520	1960	78	45-110	
Chrysene	2520	2000	79	55-110	
Dibenz(a,h)anthracene	2520	2120	84	40-125	
Dibenzofuran	2520	1850	73	50-105	
Benzo[g,h,i]perylene	2520	2180	87	40-125	
Benzo[a]pyrene	2520	1770	71	50-110	
Di-n-butyl phthalate	2520	2050	81	55-110	
1,2-Dichlorobenzene	2520	1630	65	45-95	
1,3-Dichlorobenzene	2520	1580	63	40-100	
3,3'-Dichlorobenzidine	2520	1670	66	10-130	
2,4-Dichlorophenol	2520	1740	69	45-110	
Diethyl phthalate	2520	2040	81	50-115	
Indeno[1,2,3-cd]pyrene	2520	2270	90	40-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: D7565.D
 Lab ID: LCS 280-26179/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Isophorone	2520	1660	66	45-110	
2-Methylnaphthalene	2520	1670	66	45-105	
2-Methylphenol	2520	1710	68	40-105	
Naphthalene	2520	1600	63	40-105	
2-Nitroaniline	2520	2060	82	45-120	
3-Nitroaniline	2520	1970	78	25-110	
4-Nitroaniline	2520	2080	83	35-115	
Nitrobenzene	2520	1570	62	40-115	
2-Nitrophenol	2520	1680	67	40-110	
4-Nitrophenol	2520	2040	81	15-140	
Pyrene	2520	1930	77	45-125	
Pentachlorophenol	2520	2070	82	25-120	
Phenanthrene	2520	1980	79	50-110	
1,2,4-Trichlorobenzene	2520	1460	58	45-110	
2,4,5-Trichlorophenol	2520	2040	81	50-110	
2,4,6-Trichlorophenol	2520	1820	73	45-110	
Phenol	2520	1800	72	40-100	
Carbazole	2520	2020	80	45-115	
N-Nitrosodimethylamine	2520	1730	69	20-115	
Bis(2-ethylhexyl) phthalate	2520	2020	80	45-125	
Di-n-octyl phthalate	2520	1890	75	40-130	
3 & 4 Methylphenol	5030	3620	72	40-105	
4-Chloro-3-methylphenol	2520	1860	74	45-115	
2,2'-oxybis[1-chloropropane]	2520	1760	70	20-115	
4-Chloroaniline	2520	1440	57	10-95	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: B9900.D
 Lab ID: LCS 280-28094/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	80.0	57.9	72	45-110	
Acenaphthylene	80.0	59.1	74	50-105	
Anthracene	80.0	72.5	91	55-110	
Benzo[a]anthracene	80.0	74.7	93	55-110	
Benzoic acid	80.0	87.1	109	10-125	
Benzo[b]fluoranthene	80.0	75.3	94	45-120	
Benzo[k]fluoranthene	80.0	71.1	89	45-125	
Benzyl alcohol	80.0	77.3	97	30-110	
Bis(2-chloroethoxy)methane	80.0	70.2	88	45-105	
Bis(2-chloroethyl)ether	80.0	69.8	87	35-110	
4-Bromophenyl phenyl ether	80.0	67.5	84	50-115	
Butyl benzyl phthalate	80.0	83.6	104	45-115	
2,4-Dimethylphenol	80.0	58.4	73	30-110	
Dimethyl phthalate	80.0	73.4	92	25-125	
4,6-Dinitro-2-methylphenol	80.0	54.1 J	68	40-130	
2,4-Dinitrophenol	80.0	45.9 J	57	15-140	
2,4-Dinitrotoluene	80.0	81.0	101	50-120	
2,6-Dinitrotoluene	80.0	76.1	95	50-115	
Fluoranthene	80.0	76.6	96	55-115	
Fluorene	80.0	66.1	83	50-110	
1,2-Diphenylhydrazine	80.9	71.1	88	55-115	
Hexachlorobenzene	80.0	69.7	87	50-110	
Hexachlorobutadiene	80.0	37.2	46	25-105	
Hexachloroethane	80.0	34.8	43	30-95	
N-Nitrosodiphenylamine	68.3	60.4	88	50-110	
N-Nitrosodi-n-propylamine	80.0	71.8	90	35-130	
1,4-Dichlorobenzene	80.0	42.0	53	30-100	
2-Chloronaphthalene	80.0	50.5	63	50-105	
2-Chlorophenol	80.0	68.2	85	35-105	
4-Chlorophenyl phenyl ether	80.0	66.7	83	50-110	
Chrysene	80.0	69.4	87	55-110	
Dibenz(a,h)anthracene	80.0	75.4	94	40-125	
Dibenzofuran	80.0	62.3	78	55-105	
Benzo[g,h,i]perylene	80.0	71.7	90	40-125	
Benzo[a]pyrene	80.0	65.1	81	55-110	
Di-n-butyl phthalate	80.0	79.9	100	55-115	
1,2-Dichlorobenzene	80.0	43.7	55	35-100	
1,3-Dichlorobenzene	80.0	41.7	52	30-100	
3,3'-Dichlorobenzidine	80.0	55.9	70	20-110	
2,4-Dichlorophenol	80.0	71.8	90	50-105	
Diethyl phthalate	80.0	73.9	92	40-120	
Indeno[1,2,3-cd]pyrene	80.0	75.3	94	45-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: B9900.D
 Lab ID: LCS 280-28094/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Isophorone	80.0	73.5	92	50-110	
2-Methylnaphthalene	80.0	46.1	58	45-105	
2-Methylphenol	80.0	69.5	87	40-110	
Naphthalene	80.0	45.5	57	40-100	
2-Nitroaniline	80.0	85.8	107	50-115	
3-Nitroaniline	80.0	77.4	97	20-125	
4-Nitroaniline	80.0	79.4	99	35-120	
Nitrobenzene	80.0	66.6	83	45-110	
2-Nitrophenol	80.0	76.8	96	40-115	
4-Nitrophenol	80.0	79.7	100	10-125	
Pyrene	80.0	74.4	93	50-130	
Pentachlorophenol	80.0	80.7	101	40-115	
Phenanthrene	80.0	68.8	86	50-115	
1,2,4-Trichlorobenzene	80.0	38.3	48	35-105	
2,4,5-Trichlorophenol	80.0	77.7	97	50-110	
2,4,6-Trichlorophenol	80.0	80.1	100	50-115	
Phenol	80.0	73.4	92	10-115	
Carbazole	80.0	72.9	91	50-115	
N-Nitrosodimethylamine	80.0	70.0	88	25-110	
Bis(2-ethylhexyl) phthalate	80.0	85.6	107	40-125	
Di-n-octyl phthalate	80.0	86.1	108	35-135	
3 & 4 Methylphenol	160	134	84	30-110	
4-Chloro-3-methylphenol	80.0	78.5	98	45-110	
2,2'-oxybis[1-chloropropane]	80.0	61.6	77	25-130	
4-Chloroaniline	80.0	66.1	83	15-110	

Column to be used to flag recovery and RPD values

FORM III

GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Matrix: WaterLevel: LowLab File ID: D7610.DLab ID: LCSD 280-25954/17-A

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	80.0	53.4	67	43	30	45-110	Q
Acenaphthylene	80.0	54.0	68	44	30	50-105	Q
Anthracene	80.0	68.9	86	1	30	55-110	
Benzo[a]anthracene	80.0	67.6	85	5	30	55-110	
Benzoic acid	80.0	74.5 J	93	8	30	10-125	
Benzo[b]fluoranthene	80.0	76.0	95	9	30	45-120	
Benzo[k]fluoranthene	80.0	63.6	80	15	30	45-125	
Benzyl alcohol	80.0	83.5	104	5	30	30-110	
Bis(2-chloroethoxy)methane	80.0	70.0	88	8	30	45-105	
Bis(2-chloroethyl)ether	80.0	63.1	79	5	30	35-110	
4-Bromophenyl phenyl ether	80.0	66.5	83	13	30	50-115	
Butyl benzyl phthalate	80.0	65.0	81	4	30	45-115	
2,4-Dimethylphenol	80.0	53.3	67	5	30	30-110	
Dimethyl phthalate	80.0	78.0	97	5	30	25-125	
4,6-Dinitro-2-methylphenol	80.0	75.2 J	94	1	30	40-130	
2,4-Dinitrophenol	80.0	84.7	106	2	30	15-140	
2,4-Dinitrotoluene	80.0	79.3	99	2	30	50-120	
2,6-Dinitrotoluene	80.0	74.5	93	8	30	50-115	
Fluoranthene	80.0	75.5	94	1	30	55-115	
Fluorene	80.0	62.9	79	25	30	50-110	
1,2-Diphenylhydrazine	80.9	60.6	75	17	30	55-115	
Hexachlorobenzene	80.0	73.4	92	3	30	50-110	
Hexachlorobutadiene	80.0	29.6 J	37	14	30	25-105	
Hexachloroethane	80.0	26.6	33	10	30	30-95	
N-Nitrosodiphenylamine	68.3	58.3	85	8	30	50-110	
N-Nitrosodi-n-propylamine	80.0	71.7	90	9	30	35-130	
1,4-Dichlorobenzene	80.0	33.3	42	14	30	30-100	
2-Chloronaphthalene	80.0	45.6	57	40	30	50-105	Q
2-Chlorophenol	80.0	69.9	87	5	30	35-105	
4-Chlorophenyl phenyl ether	80.0	64.3	80	29	30	50-110	
Chrysene	80.0	66.7	83	5	30	55-110	
Dibenz(a,h)anthracene	80.0	72.4	91	3	30	40-125	
Dibenzofuran	80.0	57.5	72	36	30	55-105	Q
Benzo[g,h,i]perylene	80.0	73.5	92	3	30	40-125	
Benzo[a]pyrene	80.0	59.7	75	1	30	55-110	
Di-n-butyl phthalate	80.0	71.6	90	2	30	55-115	
1,2-Dichlorobenzene	80.0	34.9	44	14	30	35-100	
1,3-Dichlorobenzene	80.0	32.4	40	11	30	30-100	
3,3'-Dichlorobenzidine	80.0	46.4 J	58	8	30	20-110	
2,4-Dichlorophenol	80.0	69.3	87	5	30	50-105	
Diethyl phthalate	80.0	76.4	95	3	30	40-120	
Indeno[1,2,3-cd]pyrene	80.0	76.6	96	5	30	45-125	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III

GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Matrix: WaterLevel: LowLab File ID: D7610.DLab ID: LCSD 280-25954/17-A

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Isophorone	80.0	70.6	88	6	30	50-110	
2-Methylnaphthalene	80.0	37.8	47	26	30	45-105	
2-Methylphenol	80.0	70.7	88	1	30	40-110	
Naphthalene	80.0	38.1	48	18	30	40-100	
2-Nitroaniline	80.0	81.7	102	5	30	50-115	
3-Nitroaniline	80.0	77.3	97	1	30	20-125	
4-Nitroaniline	80.0	78.6	98	4	30	35-120	
Nitrobenzene	80.0	62.1	78	14	30	45-110	
2-Nitrophenol	80.0	68.9	86	11	30	40-115	
4-Nitrophenol	80.0	77.0	96	6	30	10-125	
Pyrene	80.0	66.4	83	3	30	50-130	
Pentachlorophenol	80.0	82.4	103	3	30	40-115	
Phenanthrene	80.0	68.1	85	3	30	50-115	
1,2,4-Trichlorobenzene	80.0	29.6	37	17	30	35-105	
2,4,5-Trichlorophenol	80.0	80.5	101	11	30	50-110	
2,4,6-Trichlorophenol	80.0	74.6	93	16	30	50-115	
Phenol	80.0	75.7	95	6	30	10-115	
Carbazole	80.0	72.7	91	2	30	50-115	
N-Nitrosodimethylamine	80.0	73.9	92	1	30	25-110	
Bis(2-ethylhexyl) phthalate	80.0	69.2	86	4	30	40-125	
Di-n-octyl phthalate	80.0	66.5	83	4	30	35-135	
3 & 4 Methylphenol	160	150	94	3	30	30-110	
4-Chloro-3-methylphenol	80.0	75.3	94	2	30	45-110	
2,2'-oxybis[1-chloropropane]	80.0	62.6	78	11	30	25-130	
4-Chloroaniline	80.0	66.6	83	4	30	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III

GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Matrix: SolidLevel: LowLab File ID: D7566.DLab ID: LCSD 280-26179/4-A

Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	2650	1870	70	5	30	45-110	
Acenaphthylene	2650	1880	71	6	30	45-105	
Anthracene	2650	2050	77	4	30	55-105	
Benzo[a]anthracene	2650	2070	78	2	30	50-110	
Benzoic acid	2650	442 J	17	71	30	10-110	Q
Benzo[b]fluoranthene	2650	2050	77	7	30	45-115	
Benzo[k]fluoranthene	2650	2170	82	12	30	45-125	
Benzyl alcohol	2650	2200	83	13	30	20-125	
Bis(2-chloroethoxy)methane	2650	1810	68	8	30	45-110	
Bis(2-chloroethyl)ether	2650	1750	66	10	30	40-105	
4-Bromophenyl phenyl ether	2650	2080	79	5	30	45-115	
Butyl benzyl phthalate	2650	1880	71	2	30	50-125	
2,4-Dimethylphenol	2650	1690	64	10	30	30-105	
Dimethyl phthalate	2650	2100	79	4	30	50-110	
4,6-Dinitro-2-methylphenol	2650	612 J	23	63	30	30-135	Q
2,4-Dinitrophenol	2650	429 J	16	54	30	15-130	Q
2,4-Dinitrotoluene	2650	2170	82	0	30	50-115	
2,6-Dinitrotoluene	2650	2030	77	6	30	50-110	
Fluoranthene	2650	2230	84	3	30	55-115	
Fluorene	2650	1960	74	4	30	50-110	
1,2-Diphenylhydrazine	2680	1850	69	4	30	54-120	
Hexachlorobenzene	2650	2160	81	2	30	45-120	
Hexachlorobutadiene	2650	1780	67	12	30	40-115	
Hexachloroethane	2650	1610	61	13	30	35-110	
N-Nitrosodiphenylamine	2260	1680	74	3	30	50-115	
N-Nitrosodi-n-propylamine	2650	1890	71	11	30	40-115	
1,4-Dichlorobenzene	2650	1760	67	11	30	35-105	
2-Chloronaphthalene	2650	1890	71	6	30	45-105	
2-Chlorophenol	2650	1910	72	12	30	45-105	
4-Chlorophenyl phenyl ether	2650	2080	78	6	30	45-110	
Chrysene	2650	2020	76	1	30	55-110	
Dibenz(a,h)anthracene	2650	2190	83	3	30	40-125	
Dibenzofuran	2650	1940	73	5	30	50-105	
Benzo[g,h,i]perylene	2650	2260	85	4	30	40-125	
Benzo[a]pyrene	2650	1840	69	4	30	50-110	
Di-n-butyl phthalate	2650	2080	79	2	30	55-110	
1,2-Dichlorobenzene	2650	1780	67	9	30	45-95	
1,3-Dichlorobenzene	2650	1770	67	11	30	40-100	
3,3'-Dichlorobenzidine	2650	1620	61	3	30	10-130	
2,4-Dichlorophenol	2650	1880	71	8	30	45-110	
Diethyl phthalate	2650	2100	79	3	30	50-115	
Indeno[1,2,3-cd]pyrene	2650	2260	85	0	30	40-120	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III

GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Matrix: SolidLevel: LowLab File ID: D7566.DLab ID: LCSD 280-26179/4-A

Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Isophorone	2650	1820	69	9	30	45-110	
2-Methylnaphthalene	2650	1830	69	9	30	45-105	
2-Methylphenol	2650	1950	73	13	30	40-105	
Naphthalene	2650	1760	66	10	30	40-105	
2-Nitroaniline	2650	2140	81	4	30	45-120	
3-Nitroaniline	2650	1950	74	1	30	25-110	
4-Nitroaniline	2650	2090	79	1	30	35-115	
Nitrobenzene	2650	1710	65	9	30	40-115	
2-Nitrophenol	2650	1800	68	6	30	40-110	
4-Nitrophenol	2650	1970	75	3	30	15-140	
Pyrene	2650	1990	75	3	30	45-125	
Pentachlorophenol	2650	1880	71	10	30	25-120	
Phenanthrene	2650	2030	77	2	30	50-110	
1,2,4-Trichlorobenzene	2650	1570	59	8	30	45-110	
2,4,5-Trichlorophenol	2650	2090	79	2	30	50-110	
2,4,6-Trichlorophenol	2650	1920	72	5	30	45-110	
Phenol	2650	1950	74	8	30	40-100	
Carbazole	2650	2090	79	3	30	45-115	
N-Nitrosodimethylamine	2650	1880	71	8	30	20-115	
Bis(2-ethylhexyl) phthalate	2650	2010	76	0	30	45-125	
Di-n-octyl phthalate	2650	1920	73	2	30	40-130	
3 & 4 Methylphenol	5300	4000	75	10	30	40-105	
4-Chloro-3-methylphenol	2650	2000	76	7	30	45-115	
2,2'-oxybis[1-chloropropane]	2650	1960	74	11	30	20-115	
4-Chloroaniline	2650	1510	57	5	30	10-95	

Column to be used to flag recovery and RPD values

FORM III 8270C/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: B9901.D
 Lab ID: LCSD 280-28094/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	80.0	62.9	79	8	30	45-110	
Acenaphthylene	80.0	64.9	81	9	30	50-105	
Anthracene	80.0	75.7	95	4	30	55-110	
Benzo[a]anthracene	80.0	77.1	96	3	30	55-110	
Benzoic acid	80.0	88.9	111	2	30	10-125	
Benzo[b]fluoranthene	80.0	84.0	105	11	30	45-120	
Benzo[k]fluoranthene	80.0	68.8	86	3	30	45-125	
Benzyl alcohol	80.0	79.6	99	3	30	30-110	
Bis(2-chloroethoxy)methane	80.0	72.0	90	3	30	45-105	
Bis(2-chloroethyl)ether	80.0	73.7	92	5	30	35-110	
4-Bromophenyl phenyl ether	80.0	72.3	90	7	30	50-115	
Butyl benzyl phthalate	80.0	85.4	107	2	30	45-115	
2,4-Dimethylphenol	80.0	55.0	69	6	30	30-110	
Dimethyl phthalate	80.0	75.0	94	2	30	25-125	
4,6-Dinitro-2-methylphenol	80.0	62.4 J	78	14	30	40-130	
2,4-Dinitrophenol	80.0	55.8 J	70	19	30	15-140	
2,4-Dinitrotoluene	80.0	84.1	105	4	30	50-120	
2,6-Dinitrotoluene	80.0	77.9	97	2	30	50-115	
Fluoranthene	80.0	79.1	99	3	30	55-115	
Fluorene	80.0	69.5	87	5	30	50-110	
1,2-Diphenylhydrazine	80.9	74.6	92	5	30	55-115	
Hexachlorobenzene	80.0	73.7	92	6	30	50-110	
Hexachlorobutadiene	80.0	46.4	58	22	30	25-105	
Hexachloroethane	80.0	45.8	57	27	30	30-95	
N-Nitrosodiphenylamine	68.3	62.6	92	4	30	50-110	
N-Nitrosodi-n-propylamine	80.0	74.4	93	4	30	35-130	
1,4-Dichlorobenzene	80.0	50.0	62	17	30	30-100	
2-Chloronaphthalene	80.0	57.9	72	14	30	50-105	
2-Chlorophenol	80.0	71.2	89	4	30	35-105	
4-Chlorophenyl phenyl ether	80.0	69.5	87	4	30	50-110	
Chrysene	80.0	70.9	89	2	30	55-110	
Dibenz(a,h)anthracene	80.0	77.7	97	3	30	40-125	
Dibenzofuran	80.0	67.5	84	8	30	55-105	
Benzo[g,h,i]perylene	80.0	74.8	94	4	30	40-125	
Benzo[a]pyrene	80.0	67.8	85	4	30	55-110	
Di-n-butyl phthalate	80.0	82.4	103	3	30	55-115	
1,2-Dichlorobenzene	80.0	51.6	65	17	30	35-100	
1,3-Dichlorobenzene	80.0	49.4	62	17	30	30-100	
3,3'-Dichlorobenzidine	80.0	58.7	73	5	30	20-110	
2,4-Dichlorophenol	80.0	75.5	94	5	30	50-105	
Diethyl phthalate	80.0	75.7	95	2	30	40-120	
Indeno[1,2,3-cd]pyrene	80.0	77.6	97	3	30	45-125	

Column to be used to flag recovery and RPD values

FORM III

GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: B9901.D

Lab ID: LCSD 280-28094/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Isophorone	80.0	74.9	94	2	30	50-110	
2-Methylnaphthalene	80.0	55.4	69	18	30	45-105	
2-Methylphenol	80.0	71.9	90	3	30	40-110	
Naphthalene	80.0	54.2	68	18	30	40-100	
2-Nitroaniline	80.0	85.7	107	0	30	50-115	
3-Nitroaniline	80.0	82.6	103	6	30	20-125	
4-Nitroaniline	80.0	80.4	101	1	30	35-120	
Nitrobenzene	80.0	70.5	88	6	30	45-110	
2-Nitrophenol	80.0	81.3	102	6	30	40-115	
4-Nitrophenol	80.0	80.6	101	1	30	10-125	
Pyrene	80.0	76.8	96	3	30	50-130	
Pentachlorophenol	80.0	83.4	104	3	30	40-115	
Phenanthrene	80.0	73.0	91	6	30	50-115	
1,2,4-Trichlorobenzene	80.0	47.0	59	20	30	35-105	
2,4,5-Trichlorophenol	80.0	80.2	100	3	30	50-110	
2,4,6-Trichlorophenol	80.0	82.8	103	3	30	50-115	
Phenol	80.0	76.0	95	3	30	10-115	
Carbazole	80.0	76.0	95	4	30	50-115	
N-Nitrosodimethylamine	80.0	72.1	90	3	30	25-110	
Bis(2-ethylhexyl) phthalate	80.0	87.0	109	2	30	40-125	
Di-n-octyl phthalate	80.0	88.3	110	2	30	35-135	
3 & 4 Methylphenol	160	137	85	2	30	30-110	
4-Chloro-3-methylphenol	80.0	80.8	101	3	30	45-110	
2,2'-oxybis[1-chloropropane]	80.0	67.0	84	8	30	25-130	
4-Chloroaniline	80.0	71.5	89	8	30	15-110	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab File ID: D7617.D Lab Sample ID: MB 280-25954/1-A
Matrix: Water Date Extracted: 08/07/2010 16:12
Instrument ID: MSS_D Date Analyzed: 08/19/2010 14:04
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-25954/2-A	D7609.D	08/19/2010 11:46
	LCSD 280-25954/17-A	D7610.D	08/19/2010 12:04
NE SUMP-	280-6075-5	D7636.D	08/19/2010 19:57
SW SUMP-	280-6075-6	D7637.D	08/19/2010 20:16
RINSATE	280-6075-7	D7638.D	08/19/2010 20:34

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab File ID: D7580.D Lab Sample ID: MB 280-26179/1-A
Matrix: Solid Date Extracted: 08/10/2010 14:30
Instrument ID: MSS_D Date Analyzed: 08/17/2010 18:19
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-26179/3-A	D7565.D	08/17/2010 13:47
	LCSD 280-26179/4-A	D7566.D	08/17/2010 14:06
SS1-	280-6075-1	D7591.D	08/17/2010 21:42
SS2-	280-6075-2	D7592.D	08/17/2010 22:01
SS3-	280-6075-3	D7593.D	08/17/2010 22:19
SS4-	280-6075-4	D7594.D	08/17/2010 22:38
SS1-DUP-	280-6075-8	D7595.D	08/17/2010 22:56

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab File ID: B9899.D Lab Sample ID: MB 280-28094/1-A
Matrix: Water Date Extracted: 08/23/2010 14:15
Instrument ID: MSS_B Date Analyzed: 08/28/2010 20:11
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-28094/2-A	B9900.D	08/28/2010 20:32
	LCSD 280-28094/3-A	B9901.D	08/28/2010 20:52
SW SUMP- RE	280-6075-6 RE	B9904.D	08/28/2010 21:53

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: B9885.D DFTPP Injection Date: 08/28/2010
 Instrument ID: MSS_B DFTPP Injection Time: 07:33
 Analysis Batch No.: 29057

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	36.7
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	42.1
70	Less than 2.0 % of mass 69	0.2 (0.6) 1
127	40.0 - 60.0 % of mass 198	50.2
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.9
275	10.0 - 30.0 % of mass 198	23.8
365	Greater than 1.0 % of mass 198	2.5
441	Present but less than mass 443	11.9
442	Greater than 40.0 % of mass 198	81.5
443	17.0 - 23.0 % of mass 442	15.7 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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 280-29057/2	B9886.D	08/28/2010	07:46
	IC 280-29057/3	B9887.D	08/28/2010	08:05
	IC 280-29057/4	B9888.D	08/28/2010	08:24
	ICIS 280-29057/5	B9889.D	08/28/2010	08:43
	IC 280-29057/6	B9890.D	08/28/2010	09:02
	IC 280-29057/7	B9891.D	08/28/2010	09:21
	IC 280-29057/8	B9892.D	08/28/2010	09:40
	ICV 280-29057/9	B9893.D	08/28/2010	09:59
	ICV 280-29057/10	B9894.D	08/28/2010	10:19

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: B9885A.D DFTPP Injection Date: 08/28/2010
 Instrument ID: MSS_B DFTPP Injection Time: 07:33
 Analysis Batch No.: 29075

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	36.7
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	42.1
70	Less than 2.0 % of mass 69	0.2 (0.6) 1
127	40.0 - 60.0 % of mass 198	50.2
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.9
275	10.0 - 30.0 % of mass 198	23.8
365	Greater than 1.0 % of mass 198	2.5
441	Present but less than mass 443	11.9
442	Greater than 40.0 % of mass 198	81.5
443	17.0 - 23.0 % of mass 442	15.7 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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 280-29075/2	B9895.D	08/28/2010	10:39
	IC 280-29075/3	B9896.D	08/28/2010	10:59
	IC 280-29075/4	B9897.D	08/28/2010	11:19
	ICIS 280-29075/5	B9898.D	08/28/2010	11:40
	IC 280-29075/6	B9899.D	08/28/2010	12:00
	IC 280-29075/7	B9900.D	08/28/2010	12:20
	IC 280-29075/8	B9901.D	08/28/2010	12:41
	IC 280-29075/9	B9902.D	08/28/2010	13:01
	ICV 280-29075/10	B9903.D	08/28/2010	13:22
	ICV 280-29075/11	B9904.D	08/28/2010	13:42
	ICV 280-29075/12	B9905.D	08/28/2010	14:03

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: B9885.D DFTPP Injection Date: 08/28/2010
 Instrument ID: MSS_B DFTPP Injection Time: 15:04
 Analysis Batch No.: 29378

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	36.5
68	Less than 2.0 % of mass 69	0.1 (0.3)1
69	Mass 69 relative abundance	42.6
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	40.0 - 60.0 % of mass 198	50.6
197	Less than 1.0 % of mass 198	0.3
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	7.0
275	10.0 - 30.0 % of mass 198	24.3
365	Greater than 1.0 % of mass 198	2.3
441	Present but less than mass 443	12.1
442	Greater than 40.0 % of mass 198	84.3
443	17.0 - 23.0 % of mass 442	16.3 (19.3)2

1-Value is % mass 69

2-Value is % mass 442

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
	CCV 280-29378/2	B9886.D	08/28/2010	15:15
	CCV 280-29378/3	B9887.D	08/28/2010	15:35
	MB 280-28094/1-A	B9899.D	08/28/2010	20:11
	LCS 280-28094/2-A	B9900.D	08/28/2010	20:32
	LCSD 280-28094/3-A	B9901.D	08/28/2010	20:52
SW SUMP- RE	280-6075-6 RE	B9904.D	08/28/2010	21:53

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: D7258.D DFTPP Injection Date: 08/10/2010
 Instrument ID: MSS_D DFTPP Injection Time: 08:24
 Analysis Batch No.: 26451

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	47.0
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	40.0 - 60.0 % of mass 198	49.6
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	7.4
275	10.0 - 30.0 % of mass 198	29.9
365	Greater than 1.0 % of mass 198	4.6
441	Present but less than mass 443	10.0
442	Greater than 40.0 % of mass 198	71.2
443	17.0 - 23.0 % of mass 442	13.5 (19.0) 2

1-Value is % mass 69

2-Value is % mass 442

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 280-26451/2	D7259.D	08/10/2010	08:35
	IC 280-26451/3	D7260.D	08/10/2010	08:53
	IC 280-26451/4	D7261.D	08/10/2010	09:12
	ICIS 280-26451/5	D7262.D	08/10/2010	09:55
	IC 280-26451/6	D7263.D	08/10/2010	10:14
	IC 280-26451/7	D7264.D	08/10/2010	10:33
	IC 280-26451/8	D7265.D	08/10/2010	10:51
	IC 280-26451/9	D7266.D	08/10/2010	11:10
	ICV 280-26451/10	D7267.D	08/10/2010	11:28
	ICV 280-26451/11	D7268.D	08/10/2010	11:47
	ICV 280-26451/12	D7269.D	08/10/2010	13:00

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: D7258.D DFTPP Injection Date: 08/10/2010
 Instrument ID: MSS_D DFTPP Injection Time: 08:24
 Analysis Batch No.: 26452

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	47.0
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	40.0 - 60.0 % of mass 198	49.6
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	7.4
275	10.0 - 30.0 % of mass 198	29.9
365	Greater than 1.0 % of mass 198	4.6
441	Present but less than mass 443	10.0
442	Greater than 40.0 % of mass 198	71.2
443	17.0 - 23.0 % of mass 442	13.5 (19.0) 2

1-Value is % mass 69

2-Value is % mass 442

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 280-26452/2	D7270.D	08/10/2010	13:19
	IC 280-26452/3	D7271.D	08/10/2010	13:37
	IC 280-26452/4	D7272.D	08/10/2010	13:56
	ICIS 280-26452/5	D7273.D	08/10/2010	14:26
	IC 280-26452/6	D7274.D	08/10/2010	14:45
	IC 280-26452/7	D7275.D	08/10/2010	15:03
	IC 280-26452/8	D7276.D	08/10/2010	15:22
	ICV 280-26452/9	D7277.D	08/10/2010	15:41
	ICV 280-26452/10	D7278.D	08/10/2010	15:59

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: D7562.D DFTPP Injection Date: 08/17/2010
 Instrument ID: MSS_D DFTPP Injection Time: 12:58
 Analysis Batch No.: 27640

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	32.6
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	41.8
70	Less than 2.0 % of mass 69	0.1 (0.2) 1
127	40.0 - 60.0 % of mass 198	48.7
197	Less than 1.0 % of mass 198	0.2
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.8
275	10.0 - 30.0 % of mass 198	29.8
365	Greater than 1.0 % of mass 198	4.6
441	Present but less than mass 443	11.1
442	Greater than 40.0 % of mass 198	74.7
443	17.0 - 23.0 % of mass 442	15.3 (20.5) 2

1-Value is % mass 69

2-Value is % mass 442

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
	CCV 280-27640/2	D7563.D	08/17/2010	13:10
	CCV 280-27640/3	D7564.D	08/17/2010	13:28
	LCS 280-26179/3-A	D7565.D	08/17/2010	13:47
	LCSD 280-26179/4-A	D7566.D	08/17/2010	14:06
	MB 280-26179/1-A	D7580.D	08/17/2010	18:19
SS1-	280-6075-1	D7591.D	08/17/2010	21:42
SS2-	280-6075-2	D7592.D	08/17/2010	22:01
SS3-	280-6075-3	D7593.D	08/17/2010	22:19
SS4-	280-6075-4	D7594.D	08/17/2010	22:38
SS1-DUP-	280-6075-8	D7595.D	08/17/2010	22:56

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab File ID: D7606.D DFTPP Injection Date: 08/19/2010
 Instrument ID: MSS_D DFTPP Injection Time: 10:57
 Analysis Batch No.: 27824

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	31.1
68	Less than 2.0 % of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	42.2
70	Less than 2.0 % of mass 69	0.3 (0.7) 1
127	40.0 - 60.0 % of mass 198	46.8
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.6
275	10.0 - 30.0 % of mass 198	28.0
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	11.5
442	Greater than 40.0 % of mass 198	73.4
443	17.0 - 23.0 % of mass 442	14.2 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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
	CCV 280-27824/2	D7607.D	08/19/2010	11:08
	CCV 280-27824/3	D7608.D	08/19/2010	11:27
	LCS 280-25954/2-A	D7609.D	08/19/2010	11:46
	LCSD 280-25954/17-A	D7610.D	08/19/2010	12:04
	MB 280-25954/1-A	D7617.D	08/19/2010	14:04
NE SUMP-	280-6075-5	D7636.D	08/19/2010	19:57
SW SUMP-	280-6075-6	D7637.D	08/19/2010	20:16
RINSATE	280-6075-7	D7638.D	08/19/2010	20:34

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Sample No.: ICIS 280-29057/5 Date Analyzed: 08/28/2010 08:43
 Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25 (mm)
 Lab File ID (Standard): B9889.D Heated Purge: (Y/N) N
 Calibration ID: 2713

	DCB		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	282724	4.75	1116706	5.98	643939	7.69	
UPPER LIMIT	565448	5.25	2233412	6.48	1287878	8.19	
LOWER LIMIT	141362	4.25	558353	5.48	321970	7.19	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-29057/9		264982	4.75	1066052	5.98	622358	7.69
ICV 280-29057/10		275038	4.75	1093990	5.98	633716	7.69
CCV 280-29378/3		213920	4.75	842420	5.98	487204	7.69

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Sample No.: ICIS 280-29057/5 Date Analyzed: 08/28/2010 08:43
Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25 (mm)
Lab File ID (Standard): B9889.D Heated Purge: (Y/N) N
Calibration ID: 2713

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1129097	8.96	1287548	11.08	1179709	12.45	
UPPER LIMIT	2258194	9.46	2575096	11.58	2359418	12.95	
LOWER LIMIT	564549	8.46	643774	10.58	589855	11.95	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-29057/9		1088787	8.97	1209882	11.09	1190267	12.45
ICV 280-29057/10		1116024	8.96	1271668	11.10	1192249	12.47
CCV 280-29378/3		859734	8.96	990538	11.11	890603	12.47

PHN = Phenanthrene-d10

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Sample No.: ICIS 280-29075/5 Date Analyzed: 08/28/2010 11:40
 Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25 (mm)
 Lab File ID (Standard): B9898.D Heated Purge: (Y/N) N
 Calibration ID: 2729

	DCB		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	283197	4.75	1107566	5.98	651659	7.70	
UPPER LIMIT	566394	5.25	2215132	6.48	1303318	8.20	
LOWER LIMIT	141599	4.25	553783	5.48	325830	7.20	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-29075/10		248114	4.75	986838	5.98	572870	7.70
ICV 280-29075/11		327894	4.75	1277432	5.98	715330	7.70
ICV 280-29075/12		260327	4.75	1003548	5.98	550243	7.69
CCV 280-29378/2		210992	4.75	862109	5.98	504315	7.69
MB 280-28094/1-A		260612	4.76	1046774	5.98	609965	7.69
LCS 280-28094/2-A		267680	4.75	1074846	5.98	632414	7.70
LCSD 280-28094/3-A		264401	4.75	1074322	5.98	634514	7.70
280-6075-6 RE	SW SUMP- RE	269755	4.75	1072155	5.98	631362	7.69

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Sample No.: ICIS 280-29075/5 Date Analyzed: 08/28/2010 11:40
 Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25 (mm)
 Lab File ID (Standard): B9898.D Heated Purge: (Y/N) N
 Calibration ID: 2729

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1124763	8.97	1270846	11.13	1234668	12.50	
UPPER LIMIT	2249526	9.47	2541692	11.63	2469336	13.00	
LOWER LIMIT	562382	8.47	635423	10.63	617334	12.00	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-29075/10		992658	8.97	1144953	11.12	1104603	12.50
ICV 280-29075/11		1246808	8.96	1508454	11.11	1408751	12.49
ICV 280-29075/12		955293	8.96	1112261	11.10	1021361	12.47
CCV 280-29378/2		866715	8.96	1003983	11.12	971346	12.49
MB 280-28094/1-A		1060908	8.96	1173872	11.09	1123070	12.46
LCS 280-28094/2-A		1093332	8.97	1166050	11.08	1165848	12.44
LCSD 280-28094/3-A		1080713	8.96	1171258	11.07	1162374	12.42
280-6075-6 RE	SW SUMP- RE	1099396	8.96	1227968	11.09	1163789	12.47

PHN = Phenanthrene-d10

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Sample No.: ICIS 280-26451/5 Date Analyzed: 08/10/2010 09:55

Instrument ID: MSS_D GC Column: Vf-5MS (30.25) ID: 0.25 (mm)

Lab File ID (Standard): D7262.D Heated Purge: (Y/N) N

Calibration ID: 2483

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		275683	4.09	952573	5.29	676798	6.93
UPPER LIMIT		551366	4.59	1905146	5.79	1353596	7.43
LOWER LIMIT		137842	3.59	476287	4.79	338399	6.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-26451/10		230742	4.09	827153	5.29	582193	6.93
ICV 280-26451/11		306224	4.09	1046897	5.28	714669	6.93
ICV 280-26451/12		237491	4.09	835938	5.28	548639	6.93
CCV 280-27640/2		268731	4.07	993318	5.27	701741	6.92
LCS 280-26179/3-A		302665	4.07	1087500	5.27	740749	6.92
LCSD 280-26179/4-A		296946	4.07	1075963	5.26	744283	6.92
MB 280-26179/1-A		310479	4.07	1072888	5.26	734668	6.91
280-6075-1	SS1-	337042	4.07	1215965	5.27	827364	6.91
280-6075-2	SS2-	341303	4.07	1209290	5.27	824878	6.92
280-6075-3	SS3-	327129	4.07	1202344	5.27	834012	6.91
280-6075-4	SS4-	332644	4.07	1198986	5.26	820537	6.91
280-6075-8	SS1-DUP-	332352	4.07	1227788	5.27	826367	6.91
CCV 280-27824/2		328047	4.06	1176412	5.26	793370	6.91
LCS 280-25954/2-A		339800	4.06	1200913	5.26	823014	6.91
LCSD 280-25954/17-A		337422	4.07	1190770	5.26	799860	6.92
MB 280-25954/1-A		324182	4.06	1155291	5.27	792068	6.91
280-6075-5	NE SUMP-	321739	4.07	1136190	5.26	780429	6.91
280-6075-6	SW SUMP-	329603	4.07	1164886	5.26	801914	6.91
280-6075-7	RINSATE	317026	4.06	1113069	5.27	752319	6.91

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Sample No.: ICIS 280-26451/5 Date Analyzed: 08/10/2010 09:55

Instrument ID: MSS_D GC Column: Vf-5MS (30.25) ID: 0.25 (mm)

Lab File ID (Standard): D7262.D Heated Purge: (Y/N) N

Calibration ID: 2483

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1244014	8.15	1570069	10.40	1367648	11.68
UPPER LIMIT		2488028	8.65	3140138	10.90	2735296	12.18
LOWER LIMIT		622007	7.65	785035	9.90	683824	11.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-26451/10		1091239	8.15	1339278	10.37	1181737	11.65
ICV 280-26451/11		1338016	8.15	1583842	10.38	1489926	11.68
ICV 280-26451/12		1025318	8.18	1193457	10.51	1083945	11.88
CCV 280-27640/2		1329660	8.14	1777123	10.36	1643222	11.64
LCS 280-26179/3-A		1402105	8.13	1846957	10.38	1690202	11.68
LCSD 280-26179/4-A		1405806	8.14	1853662	10.40	1658265	11.71
MB 280-26179/1-A		1388035	8.13	1734302	10.31	1605130	11.57
280-6075-1	SS1-	1560810	8.13	1838601	10.29	1698139	11.54
280-6075-2	SS2-	1564242	8.12	1837644	10.28	1688262	11.51
280-6075-3	SS3-	1548933	8.12	1816960	10.27	1651756	11.48
280-6075-4	SS4-	1513173	8.12	1802258	10.25	1636526	11.48
280-6075-8	SS1-DUP-	1538157	8.12	1822563	10.27	1672918	11.50
CCV 280-27824/2		1513784	8.14	1969449	10.40	1847137	11.70
LCS 280-25954/2-A		1546295	8.13	2011172	10.34	1863867	11.62
LCSD 280-25954/17-A		1508267	8.13	1983119	10.34	1801452	11.61
MB 280-25954/1-A		1496965	8.13	1856887	10.35	1790847	11.63
280-6075-5	NE SUMP-	1447040	8.12	1768958	10.31	1660761	11.58
280-6075-6	SW SUMP-	1497060	8.12	1800154	10.27	1703250	11.50
280-6075-7	RINSATE	1423900	8.12	1710656	10.25	1613160	11.46

PHN = Phenanthrene-d10

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Sample No.: ICIS 280-26452/5 Date Analyzed: 08/10/2010 14:26
 Instrument ID: MSS_D GC Column: Vf-5MS (30.25) ID: 0.25 (mm)
 Lab File ID (Standard): D7273.D Heated Purge: (Y/N) N
 Calibration ID: 2484

	DCB		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	264208	4.09	890262	5.28	624333	6.93	
UPPER LIMIT	528416	4.59	1780524	5.78	1248666	7.43	
LOWER LIMIT	132104	3.59	445131	4.78	312167	6.43	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-26452/9		258509	4.09	880973	5.29	633924	6.93
ICV 280-26452/10		245677	4.09	892362	5.28	647607	6.93
CCV 280-27640/3		302089	4.07	1043978	5.27	747183	6.92
CCV 280-27824/3		314984	4.06	1137666	5.26	776741	6.91

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Sample No.: ICIS 280-26452/5 Date Analyzed: 08/10/2010 14:26
Instrument ID: MSS_D GC Column: Vf-5MS (30.25) ID: 0.25 (mm)
Lab File ID (Standard): D7273.D Heated Purge: (Y/N) N
Calibration ID: 2484

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1122375	8.17	1325030	10.51	1261304	11.86	
UPPER LIMIT	2244750	8.67	2650060	11.01	2522608	12.36	
LOWER LIMIT	561188	7.67	662515	10.01	630652	11.36	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-26452/9		1183373	8.16	1477768	10.40	1294453	11.71
ICV 280-26452/10		1177738	8.15	1331930	10.40	1274227	11.70
CCV 280-27640/3		1429927	8.14	1758427	10.37	1695645	11.66
CCV 280-27824/3		1420778	8.14	1738168	10.35	1705299	11.63

PHN = Phenanthrene-d10

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1- Lab Sample ID: 280-6075-1

Matrix: Solid Lab File ID: D7591.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 09:45

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 21:42

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 13.5 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	20	U	380	12
208-96-8	Acenaphthylene	38	U	380	20
120-12-7	Anthracene	38	U	380	20
92-87-5	Benzidine	4500	U	4600	1100
56-55-3	Benzo[a]anthracene	38	U	380	23
65-85-0	Benzoic acid	760	U Q	1800	380
205-99-2	Benzo[b]fluoranthene	38	U	380	30
207-08-9	Benzo[k]fluoranthene	76	U	380	46
100-51-6	Benzyl alcohol	38	U	380	11
111-91-1	Bis(2-chloroethoxy)methane	76	U	380	26
111-44-4	Bis(2-chloroethyl)ether	38	U	380	19
101-55-3	4-Bromophenyl phenyl ether	38	U	380	22
85-68-7	Butyl benzyl phthalate	76	U	380	49
105-67-9	2,4-Dimethylphenol	150	U	380	76
131-11-3	Dimethyl phthalate	38	U	380	26
534-52-1	4,6-Dinitro-2-methylphenol	760	U Q	1800	380
51-28-5	2,4-Dinitrophenol	770	U Q	1800	380
121-14-2	2,4-Dinitrotoluene	150	U	380	76
606-20-2	2,6-Dinitrotoluene	76	U	380	32
206-44-0	Fluoranthene	76	U	380	41
86-73-7	Fluorene	38	U	380	21
122-66-7	1,2-Diphenylhydrazine	38	U	380	25
118-74-1	Hexachlorobenzene	76	U	380	33
87-68-3	Hexachlorobutadiene	76	U	380	11
67-72-1	Hexachloroethane	38	U	380	24
86-30-6	N-Nitrosodiphenylamine	38	U	380	24
621-64-7	N-Nitrosodi-n-propylamine	76	U	380	36
106-46-7	1,4-Dichlorobenzene	38	U	380	16
91-58-7	2-Chloronaphthalene	38	U	380	11
95-57-8	2-Chlorophenol	38	U	380	24
7005-72-3	4-Chlorophenyl phenyl ether	76	U	380	24
218-01-9	Chrysene	38	U	380	31
53-70-3	Dibenz(a,h)anthracene	38	U	380	22
132-64-9	Dibenzofuran	38	U	380	23

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1- Lab Sample ID: 280-6075-1

Matrix: Solid Lab File ID: D7591.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 09:45

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 21:42

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 13.5 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	38	U	380	18
50-32-8	Benzo[a]pyrene	38	U	380	23
84-74-2	Di-n-butyl phthalate	38	U	380	33
95-50-1	1,2-Dichlorobenzene	38	U	380	25
541-73-1	1,3-Dichlorobenzene	38	U	380	14
91-94-1	3,3'-Dichlorobenzidine	380	U	1800	100
120-83-2	2,4-Dichlorophenol	76	U	380	11
84-66-2	Diethyl phthalate	38	U	760	30
193-39-5	Indeno[1,2,3-cd]pyrene	38	U	380	25
78-59-1	Isophorone	38	U	380	20
91-57-6	2-Methylnaphthalene	38	U	380	22
95-48-7	2-Methylphenol	38	U	380	15
91-20-3	Naphthalene	76	U	380	36
88-74-4	2-Nitroaniline	76	U	1800	57
99-09-2	3-Nitroaniline	76	U	1800	84
100-01-6	4-Nitroaniline	150	U	1800	83
98-95-3	Nitrobenzene	38	U	380	25
88-75-5	2-Nitrophenol	76	U	380	11
100-02-7	4-Nitrophenol	380	U	1800	110
129-00-0	Pyrene	38	U	460	14
87-86-5	Pentachlorophenol	770	U	1800	380
85-01-8	Phenanthrene	38	U	380	20
120-82-1	1,2,4-Trichlorobenzene	38	U	380	32
95-95-4	2,4,5-Trichlorophenol	150	U	380	11
88-06-2	2,4,6-Trichlorophenol	76	U	380	11
108-95-2	Phenol	38	U	380	21
86-74-8	Carbazole	38	U	380	41
62-75-9	N-Nitrosodimethylamine	76	U	600	43
117-81-7	Bis(2-ethylhexyl) phthalate	76	U	380	53
117-84-0	Di-n-octyl phthalate	76	U	380	17
15831-10-4	3 & 4 Methylphenol	76	U	380	38
59-50-7	4-Chloro-3-methylphenol	150	U	380	76
108-60-1	2,2'-oxybis[1-chloropropane]	38	U	380	26
106-47-8	4-Chloroaniline	150	U	380	94

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Client Sample ID: SS1- Lab Sample ID: 280-6075-1
 Matrix: Solid Lab File ID: D7591.D
 Analysis Method: 8270C/DoD Date Collected: 08/02/2010 09:45
 Extract. Method: 3550C Date Extracted: 08/10/2010 14:30
 Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 21:42
 Con. Extract Vol.: 1000(uL) Dilution Factor: 1
 Injection Volume: 0.5(uL) Level: (low/med) Low
 % Moisture: 13.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	150	U	380	79
930-55-2	N-Nitrosopyrrolidine	150	U	380	74

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	74	45-105	
367-12-4	2-Fluorophenol (Surr)	75	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	66	35-100	
1718-51-0	Terphenyl-d14 (Surr)	95	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	89	35-125	
4165-62-2	Phenol-d5 (Surr)	78	40-100	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS2- Lab Sample ID: 280-6075-2

Matrix: Solid Lab File ID: D7592.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:10

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 31.1(g) Date Analyzed: 08/17/2010 22:01

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 6.7 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	18	U	340	11
208-96-8	Acenaphthylene	34	U	340	18
120-12-7	Anthracene	34	U	340	18
92-87-5	Benzidine	4100	U	4100	1000
56-55-3	Benzo[a]anthracene	34	U	340	21
65-85-0	Benzoic acid	680	U Q	1700	340
205-99-2	Benzo[b]fluoranthene	39	J K	340	27
207-08-9	Benzo[k]fluoranthene	68	U K	340	41
100-51-6	Benzyl alcohol	34	U	340	10
111-91-1	Bis(2-chloroethoxy)methane	68	U	340	24
111-44-4	Bis(2-chloroethyl)ether	34	U	340	17
101-55-3	4-Bromophenyl phenyl ether	34	U	340	20
85-68-7	Butyl benzyl phthalate	68	U	340	44
105-67-9	2,4-Dimethylphenol	130	U	340	68
131-11-3	Dimethyl phthalate	34	U	340	24
534-52-1	4,6-Dinitro-2-methylphenol	680	U Q	1700	340
51-28-5	2,4-Dinitrophenol	690	U Q	1700	340
121-14-2	2,4-Dinitrotoluene	130	U	340	68
606-20-2	2,6-Dinitrotoluene	68	U	340	29
206-44-0	Fluoranthene	68	U	340	37
86-73-7	Fluorene	34	U	340	19
122-66-7	1,2-Diphenylhydrazine	34	U	340	23
118-74-1	Hexachlorobenzene	68	U	340	30
87-68-3	Hexachlorobutadiene	68	U	340	10
67-72-1	Hexachloroethane	34	U	340	22
86-30-6	N-Nitrosodiphenylamine	34	U	340	22
621-64-7	N-Nitrosodi-n-propylamine	68	U	340	32
106-46-7	1,4-Dichlorobenzene	34	U	340	14
91-58-7	2-Chloronaphthalene	34	U	340	10
95-57-8	2-Chlorophenol	34	U	340	22
7005-72-3	4-Chlorophenyl phenyl ether	68	U	340	22
218-01-9	Chrysene	34	U	340	28
53-70-3	Dibenz(a,h)anthracene	34	U	340	20
132-64-9	Dibenzofuran	34	U	340	21

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS2- Lab Sample ID: 280-6075-2

Matrix: Solid Lab File ID: D7592.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:10

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 31.1(g) Date Analyzed: 08/17/2010 22:01

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 6.7 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	17	J	340	17
50-32-8	Benzo[a]pyrene	34	U	340	21
84-74-2	Di-n-butyl phthalate	34	U	340	30
95-50-1	1,2-Dichlorobenzene	34	U	340	23
541-73-1	1,3-Dichlorobenzene	34	U	340	12
91-94-1	3,3'-Dichlorobenzidine	340	U	1700	93
120-83-2	2,4-Dichlorophenol	68	U	340	10
84-66-2	Diethyl phthalate	34	U	680	27
193-39-5	Indeno[1,2,3-cd]pyrene	34	U	340	23
78-59-1	Isophorone	34	U	340	18
91-57-6	2-Methylnaphthalene	34	U	340	20
95-48-7	2-Methylphenol	34	U	340	13
91-20-3	Naphthalene	68	U	340	32
88-74-4	2-Nitroaniline	68	U	1700	52
99-09-2	3-Nitroaniline	68	U	1700	75
100-01-6	4-Nitroaniline	130	U	1700	75
98-95-3	Nitrobenzene	34	U	340	23
88-75-5	2-Nitrophenol	68	U	340	10
100-02-7	4-Nitrophenol	340	U	1700	100
129-00-0	Pyrene	22	J	410	13
87-86-5	Pentachlorophenol	690	U	1700	340
85-01-8	Phenanthrene	34	U	340	18
120-82-1	1,2,4-Trichlorobenzene	34	U	340	29
95-95-4	2,4,5-Trichlorophenol	130	U	340	10
88-06-2	2,4,6-Trichlorophenol	68	U	340	10
108-95-2	Phenol	34	U	340	19
86-74-8	Carbazole	34	U	340	37
62-75-9	N-Nitrosodimethylamine	68	U	540	38
117-81-7	Bis(2-ethylhexyl) phthalate	68	U	340	48
117-84-0	Di-n-octyl phthalate	68	U	340	15
15831-10-4	3 & 4 Methylphenol	68	U	340	34
59-50-7	4-Chloro-3-methylphenol	130	U	340	68
108-60-1	2,2'-oxybis[1-chloropropane]	34	U	340	24
106-47-8	4-Chloroaniline	130	U	340	85

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- Lab Sample ID: 280-6075-2
Matrix: Solid Lab File ID: D7592.D
Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:10
Extract. Method: 3550C Date Extracted: 08/10/2010 14:30
Sample wt/vol: 31.1(g) Date Analyzed: 08/17/2010 22:01
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: 6.7 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	130	U	340	71
930-55-2	N-Nitrosopyrrolidine	130	U	340	66

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	71	45-105	
367-12-4	2-Fluorophenol (Surr)	70	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	64	35-100	
1718-51-0	Terphenyl-d14 (Surr)	89	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	88	35-125	
4165-62-2	Phenol-d5 (Surr)	73	40-100	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS3- Lab Sample ID: 280-6075-3

Matrix: Solid Lab File ID: D7593.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:30

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.8(g) Date Analyzed: 08/17/2010 22:19

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 12.1 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	19	U	370	11
208-96-8	Acenaphthylene	37	U	370	19
120-12-7	Anthracene	37	U	370	19
92-87-5	Benzidine	4400	U	4400	1100
56-55-3	Benzo[a]anthracene	32	J	370	22
65-85-0	Benzoic acid	450	J Q	1800	370
205-99-2	Benzo[b]fluoranthene	72	J K	370	29
207-08-9	Benzo[k]fluoranthene	73	U K	370	44
100-51-6	Benzyl alcohol	37	U	370	11
111-91-1	Bis(2-chloroethoxy)methane	73	U	370	25
111-44-4	Bis(2-chloroethyl)ether	37	U	370	18
101-55-3	4-Bromophenyl phenyl ether	37	U	370	21
85-68-7	Butyl benzyl phthalate	73	U	370	48
105-67-9	2,4-Dimethylphenol	140	U	370	73
131-11-3	Dimethyl phthalate	37	U	370	25
534-52-1	4,6-Dinitro-2-methylphenol	730	U Q	1800	370
51-28-5	2,4-Dinitrophenol	740	U Q	1800	370
121-14-2	2,4-Dinitrotoluene	140	U	370	73
606-20-2	2,6-Dinitrotoluene	73	U	370	31
206-44-0	Fluoranthene	45	J	370	40
86-73-7	Fluorene	37	U	370	20
122-66-7	1,2-Diphenylhydrazine	37	U	370	24
118-74-1	Hexachlorobenzene	73	U	370	32
87-68-3	Hexachlorobutadiene	73	U	370	11
67-72-1	Hexachloroethane	37	U	370	24
86-30-6	N-Nitrosodiphenylamine	37	U	370	23
621-64-7	N-Nitrosodi-n-propylamine	73	U	370	34
106-46-7	1,4-Dichlorobenzene	37	U	370	15
91-58-7	2-Chloronaphthalene	37	U	370	11
95-57-8	2-Chlorophenol	37	U	370	23
7005-72-3	4-Chlorophenyl phenyl ether	73	U	370	23
218-01-9	Chrysene	42	J	370	30
53-70-3	Dibenz(a,h)anthracene	37	U	370	21
132-64-9	Dibenzofuran	37	U	370	22

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS3- Lab Sample ID: 280-6075-3

Matrix: Solid Lab File ID: D7593.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:30

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.8(g) Date Analyzed: 08/17/2010 22:19

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 12.1 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	24	J M	370	18
50-32-8	Benzo[a]pyrene	26	J M	370	22
84-74-2	Di-n-butyl phthalate	37	U	370	32
95-50-1	1,2-Dichlorobenzene	37	U	370	24
541-73-1	1,3-Dichlorobenzene	37	U	370	13
91-94-1	3,3'-Dichlorobenzidine	370	U	1800	100
120-83-2	2,4-Dichlorophenol	73	U	370	11
84-66-2	Diethyl phthalate	37	U	730	29
193-39-5	Indeno[1,2,3-cd]pyrene	37	U	370	24
78-59-1	Isophorone	37	U	370	19
91-57-6	2-Methylnaphthalene	37	U	370	21
95-48-7	2-Methylphenol	37	U	370	14
91-20-3	Naphthalene	73	U	370	34
88-74-4	2-Nitroaniline	73	U	1800	55
99-09-2	3-Nitroaniline	73	U	1800	81
100-01-6	4-Nitroaniline	140	U	1800	80
98-95-3	Nitrobenzene	37	U	370	24
88-75-5	2-Nitrophenol	73	U	370	11
100-02-7	4-Nitrophenol	370	U	1800	110
129-00-0	Pyrene	47	J	440	13
87-86-5	Pentachlorophenol	740	U	1800	370
85-01-8	Phenanthrene	37	U	370	19
120-82-1	1,2,4-Trichlorobenzene	37	U	370	31
95-95-4	2,4,5-Trichlorophenol	140	U	370	11
88-06-2	2,4,6-Trichlorophenol	73	U	370	11
108-95-2	Phenol	37	U	370	20
86-74-8	Carbazole	37	U	370	40
62-75-9	N-Nitrosodimethylamine	73	U	580	41
117-81-7	Bis(2-ethylhexyl) phthalate	110	J	370	51
117-84-0	Di-n-octyl phthalate	73	U	370	16
15831-10-4	3 & 4 Methylphenol	73	U	370	37
59-50-7	4-Chloro-3-methylphenol	140	U	370	73
108-60-1	2,2'-oxybis[1-chloropropane]	37	U	370	25
106-47-8	4-Chloroaniline	140	U	370	91

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS3- Lab Sample ID: 280-6075-3

Matrix: Solid Lab File ID: D7593.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:30

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.8(g) Date Analyzed: 08/17/2010 22:19

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 12.1 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	140	U	370	76
930-55-2	N-Nitrosopyrrolidine	140	U	370	71

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	69	45-105	
367-12-4	2-Fluorophenol (Surr)	75	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	65	35-100	
1718-51-0	Terphenyl-d14 (Surr)	84	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	78	35-125	
4165-62-2	Phenol-d5 (Surr)	76	40-100	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS4- Lab Sample ID: 280-6075-4

Matrix: Solid Lab File ID: D7594.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:45

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 22:38

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 7.9 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	18	U	360	11
208-96-8	Acenaphthylene	36	U	360	18
120-12-7	Anthracene	36	U	360	18
92-87-5	Benzidine	4300	U	4300	1100
56-55-3	Benzo[a]anthracene	30	J	360	22
65-85-0	Benzoic acid	710	U Q	1700	360
205-99-2	Benzo[b]fluoranthene	85	J K	360	28
207-08-9	Benzo[k]fluoranthene	71	U K	360	43
100-51-6	Benzyl alcohol	36	U	360	11
111-91-1	Bis(2-chloroethoxy)methane	71	U	360	25
111-44-4	Bis(2-chloroethyl)ether	36	U	360	18
101-55-3	4-Bromophenyl phenyl ether	36	U	360	20
85-68-7	Butyl benzyl phthalate	71	U	360	46
105-67-9	2,4-Dimethylphenol	140	U	360	71
131-11-3	Dimethyl phthalate	36	U	360	25
534-52-1	4,6-Dinitro-2-methylphenol	710	U Q	1700	360
51-28-5	2,4-Dinitrophenol	720	U Q	1700	360
121-14-2	2,4-Dinitrotoluene	140	U	360	71
606-20-2	2,6-Dinitrotoluene	71	U	360	30
206-44-0	Fluoranthene	54	J	360	39
86-73-7	Fluorene	36	U	360	19
122-66-7	1,2-Diphenylhydrazine	36	U	360	24
118-74-1	Hexachlorobenzene	71	U	360	31
87-68-3	Hexachlorobutadiene	71	U	360	11
67-72-1	Hexachloroethane	36	U	360	23
86-30-6	N-Nitrosodiphenylamine	36	U	360	23
621-64-7	N-Nitrosodi-n-propylamine	71	U	360	33
106-46-7	1,4-Dichlorobenzene	36	U	360	15
91-58-7	2-Chloronaphthalene	36	U	360	11
95-57-8	2-Chlorophenol	36	U	360	23
7005-72-3	4-Chlorophenyl phenyl ether	71	U	360	23
218-01-9	Chrysene	44	J	360	29
53-70-3	Dibenz(a,h)anthracene	36	U	360	20
132-64-9	Dibenzofuran	36	U	360	22

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS4- Lab Sample ID: 280-6075-4

Matrix: Solid Lab File ID: D7594.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:45

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 22:38

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 7.9 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	27	J M	360	17
50-32-8	Benzo[a]pyrene	26	J M	360	22
84-74-2	Di-n-butyl phthalate	36	U	360	31
95-50-1	1,2-Dichlorobenzene	36	U	360	24
541-73-1	1,3-Dichlorobenzene	36	U	360	13
91-94-1	3,3'-Dichlorobenzidine	360	U	1700	97
120-83-2	2,4-Dichlorophenol	71	U	360	11
84-66-2	Diethyl phthalate	36	U	710	28
193-39-5	Indeno[1,2,3-cd]pyrene	24	J M	360	24
78-59-1	Isophorone	36	U	360	18
91-57-6	2-Methylnaphthalene	36	U	360	20
95-48-7	2-Methylphenol	36	U	360	14
91-20-3	Naphthalene	71	U	360	33
88-74-4	2-Nitroaniline	71	U	1700	54
99-09-2	3-Nitroaniline	71	U	1700	79
100-01-6	4-Nitroaniline	140	U	1700	78
98-95-3	Nitrobenzene	36	U	360	24
88-75-5	2-Nitrophenol	71	U	360	11
100-02-7	4-Nitrophenol	360	U	1700	100
129-00-0	Pyrene	50	J	430	13
87-86-5	Pentachlorophenol	720	U	1700	360
85-01-8	Phenanthrene	36	U	360	18
120-82-1	1,2,4-Trichlorobenzene	36	U	360	30
95-95-4	2,4,5-Trichlorophenol	140	U	360	11
88-06-2	2,4,6-Trichlorophenol	71	U	360	11
108-95-2	Phenol	36	U	360	19
86-74-8	Carbazole	36	U	360	39
62-75-9	N-Nitrosodimethylamine	71	U	560	40
117-81-7	Bis(2-ethylhexyl) phthalate	970		360	50
117-84-0	Di-n-octyl phthalate	71	U	360	16
15831-10-4	3 & 4 Methylphenol	71	U	360	36
59-50-7	4-Chloro-3-methylphenol	140	U	360	71
108-60-1	2,2'-oxybis[1-chloropropane]	36	U	360	25
106-47-8	4-Chloroaniline	140	U	360	88

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS4- Lab Sample ID: 280-6075-4

Matrix: Solid Lab File ID: D7594.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 10:45

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 22:38

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 7.9 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	140	U	360	74
930-55-2	N-Nitrosopyrrolidine	140	U	360	69

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	78	45-105	
367-12-4	2-Fluorophenol (Surr)	78	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	69	35-100	
1718-51-0	Terphenyl-d14 (Surr)	97	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	95	35-125	
4165-62-2	Phenol-d5 (Surr)	82	40-100	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- Lab Sample ID: 280-6075-5

Matrix: Water Lab File ID: D7636.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:00

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1058(mL) Date Analyzed: 08/19/2010 19:57

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	0.95	U Q	9.5	0.26
208-96-8	Acenaphthylene	0.95	U Q	9.5	0.46
120-12-7	Anthracene	0.95	U	9.5	0.40
92-87-5	Benzidine	95	U	190	47
56-55-3	Benzo[a]anthracene	0.95	U	9.5	0.33
65-85-0	Benzoic acid	47	U	76	9.5
205-99-2	Benzo[b]fluoranthene	0.95	U	9.5	0.50
207-08-9	Benzo[k]fluoranthene	0.95	U	9.5	0.43
100-51-6	Benzyl alcohol	0.95	U	24	0.22
111-91-1	Bis(2-chloroethoxy)methane	3.8	U	9.5	0.92
111-44-4	Bis(2-chloroethyl)ether	0.95	U	19	0.39
101-55-3	4-Bromophenyl phenyl ether	0.95	U	9.5	0.41
85-68-7	Butyl benzyl phthalate	3.8	U	19	0.95
105-67-9	2,4-Dimethylphenol	3.8	U	9.5	0.55
131-11-3	Dimethyl phthalate	0.95	U	19	0.20
534-52-1	4,6-Dinitro-2-methylphenol	9.5	U	76	3.8
51-28-5	2,4-Dinitrophenol	19	U	76	9.5
121-14-2	2,4-Dinitrotoluene	3.8	U	19	1.6
606-20-2	2,6-Dinitrotoluene	3.8	U	19	1.8
206-44-0	Fluoranthene	0.95	U	19	0.19
86-73-7	Fluorene	0.95	U	9.5	0.29
122-66-7	1,2-Diphenylhydrazine	0.95	U	9.5	0.22
118-74-1	Hexachlorobenzene	0.95	U	9.5	0.62
87-68-3	Hexachlorobutadiene	9.5	U	28	3.1
67-72-1	Hexachloroethane	0.95	U	9.5	2.0
86-30-6	N-Nitrosodiphenylamine	0.95	U	9.5	0.42
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	19	0.33
106-46-7	1,4-Dichlorobenzene	0.95	U	9.5	0.30
91-58-7	2-Chloronaphthalene	0.95	U Q	9.5	0.25
95-57-8	2-Chlorophenol	3.8	U	9.5	1.9
7005-72-3	4-Chlorophenyl phenyl ether	3.8	U	9.5	1.6
218-01-9	Chrysene	0.95	U	9.5	0.51
53-70-3	Dibenz(a,h)anthracene	0.95	U	9.5	0.48
132-64-9	Dibenzofuran	0.95	U Q	9.5	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Denver</u>	Job No.: <u>280-6075-1</u>
SDG No.: _____	
Client Sample ID: <u>NE SUMP-</u>	Lab Sample ID: <u>280-6075-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>D7636.D</u>
Analysis Method: <u>8270C/DoD</u>	Date Collected: <u>08/02/2010 08:00</u>
Extract. Method: <u>3520C</u>	Date Extracted: <u>08/07/2010 16:12</u>
Sample wt/vol: <u>1058(mL)</u>	Date Analyzed: <u>08/19/2010 19:57</u>
Con. Extract Vol.: <u>1000(uL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>0.5(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>27824</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	0.95	U	9.5	0.47
50-32-8	Benzo[a]pyrene	0.95	U	9.5	0.29
84-74-2	Di-n-butyl phthalate	3.8	U	19	1.1
95-50-1	1,2-Dichlorobenzene	0.95	U	9.5	0.22
541-73-1	1,3-Dichlorobenzene	0.95	U	9.5	0.28
91-94-1	3,3'-Dichlorobenzidine	9.5	U	47	1.9
120-83-2	2,4-Dichlorophenol	1.9	U	9.5	0.60
84-66-2	Diethyl phthalate	0.95	U	19	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	0.95	U	9.5	0.61
78-59-1	Isophorone	0.95	U	9.5	0.20
91-57-6	2-Methylnaphthalene	0.95	U Q	9.5	0.27
95-48-7	2-Methylphenol	3.8	U	9.5	0.93
91-20-3	Naphthalene	0.95	U	9.5	0.27
88-74-4	2-Nitroaniline	3.8	U	47	1.6
99-09-2	3-Nitroaniline	1.9	U	47	1.9
100-01-6	4-Nitroaniline	3.8	U	47	1.9
98-95-3	Nitrobenzene	1.9	U	19	0.77
88-75-5	2-Nitrophenol	0.95	U	19	0.37
100-02-7	4-Nitrophenol	0.95	U	47	1.2
129-00-0	Pyrene	0.95	U	9.5	0.35
87-86-5	Pentachlorophenol	38	U	76	19
85-01-8	Phenanthrene	0.95	U	9.5	0.25
120-82-1	1,2,4-Trichlorobenzene	0.95	U Q	9.5	0.26
95-95-4	2,4,5-Trichlorophenol	0.95	U	19	0.43
88-06-2	2,4,6-Trichlorophenol	0.95	U	19	0.27
108-95-2	Phenol	0.95	U	9.5	1.9
86-74-8	Carbazole	0.95	U	9.5	0.41
62-75-9	N-Nitrosodimethylamine	0.95	U	9.5	0.27
117-81-7	Bis(2-ethylhexyl) phthalate	0.95	U	9.5	0.53
117-84-0	Di-n-octyl phthalate	0.95	U	19	0.33
15831-10-4	3 & 4 Methylphenol	0.95	U	19	0.24
59-50-7	4-Chloro-3-methylphenol	4.7	U	19	2.3
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	9.5	0.26
106-47-8	4-Chloroaniline	4.7	U	24	2.0

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: NE SUMP- Lab Sample ID: 280-6075-5
Matrix: Water Lab File ID: D7636.D
Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:00
Extract. Method: 3520C Date Extracted: 08/07/2010 16:12
Sample wt/vol: 1058(mL) Date Analyzed: 08/19/2010 19:57
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	3.8	U	9.5	1.3
930-55-2	N-Nitrosopyrrolidine	3.8	U	9.5	0.76

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	83	50-110	
367-12-4	2-Fluorophenol (Surr)	85	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	83	40-110	
1718-51-0	Terphenyl-d14 (Surr)	107	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	106	40-125	
4165-62-2	Phenol-d5 (Surr)	94	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6

Matrix: Water Lab File ID: D7637.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:30

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1064 (mL) Date Analyzed: 08/19/2010 20:16

Con. Extract Vol.: 1000 (uL) Dilution Factor: 1

Injection Volume: 0.5 (uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	0.94	U Q	9.4	0.26
208-96-8	Acenaphthylene	0.94	U Q	9.4	0.46
120-12-7	Anthracene	0.94	U	9.4	0.39
92-87-5	Benzidine	94	U	190	47
56-55-3	Benzo[a]anthracene	0.94	U	9.4	0.33
65-85-0	Benzoic acid	47	U	75	9.4
205-99-2	Benzo[b]fluoranthene	0.94	U	9.4	0.50
207-08-9	Benzo[k]fluoranthene	0.94	U	9.4	0.43
100-51-6	Benzyl alcohol	0.94	U	23	0.22
111-91-1	Bis(2-chloroethoxy)methane	3.8	U	9.4	0.91
111-44-4	Bis(2-chloroethyl) ether	0.94	U	19	0.39
101-55-3	4-Bromophenyl phenyl ether	0.94	U	9.4	0.40
85-68-7	Butyl benzyl phthalate	3.8	U	19	0.94
105-67-9	2,4-Dimethylphenol	3.8	U	9.4	0.55
131-11-3	Dimethyl phthalate	0.94	U	19	0.20
534-52-1	4,6-Dinitro-2-methylphenol	9.4	U	75	3.8
51-28-5	2,4-Dinitrophenol	19	U	75	9.4
121-14-2	2,4-Dinitrotoluene	3.8	U	19	1.6
606-20-2	2,6-Dinitrotoluene	3.8	U	19	1.8
206-44-0	Fluoranthene	0.94	U	19	0.19
86-73-7	Fluorene	0.94	U	9.4	0.29
122-66-7	1,2-Diphenylhydrazine	0.94	U	9.4	0.22
118-74-1	Hexachlorobenzene	0.94	U	9.4	0.62
87-68-3	Hexachlorobutadiene	9.4	U	28	3.1
67-72-1	Hexachloroethane	0.94	U	9.4	2.0
86-30-6	N-Nitrosodiphenylamine	0.94	U	9.4	0.41
621-64-7	N-Nitrosodi-n-propylamine	0.94	U	19	0.33
106-46-7	1,4-Dichlorobenzene	0.94	U	9.4	0.30
91-58-7	2-Chloronaphthalene	0.94	U Q	9.4	0.24
95-57-8	2-Chlorophenol	3.8	U	9.4	1.9
7005-72-3	4-Chlorophenyl phenyl ether	3.8	U	9.4	1.6
218-01-9	Chrysene	0.94	U	9.4	0.51
53-70-3	Dibenz(a,h)anthracene	0.94	U	9.4	0.48
132-64-9	Dibenzofuran	0.94	U Q	9.4	0.27

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6

Matrix: Water Lab File ID: D7637.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:30

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1064 (mL) Date Analyzed: 08/19/2010 20:16

Con. Extract Vol.: 1000 (uL) Dilution Factor: 1

Injection Volume: 0.5 (uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	0.94	U	9.4	0.47
50-32-8	Benzo[a]pyrene	0.94	U	9.4	0.29
84-74-2	Di-n-butyl phthalate	3.8	U	19	1.1
95-50-1	1,2-Dichlorobenzene	0.94	U	9.4	0.22
541-73-1	1,3-Dichlorobenzene	0.94	U	9.4	0.28
91-94-1	3,3'-Dichlorobenzidine	9.4	U	47	1.9
120-83-2	2,4-Dichlorophenol	1.9	U	9.4	0.60
84-66-2	Diethyl phthalate	0.94	U	19	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	0.94	U	9.4	0.61
78-59-1	Isophorone	0.94	U	9.4	0.20
91-57-6	2-Methylnaphthalene	0.94	U Q	9.4	0.27
95-48-7	2-Methylphenol	3.8	U	9.4	0.92
91-20-3	Naphthalene	0.94	U	9.4	0.27
88-74-4	2-Nitroaniline	3.8	U	47	1.6
99-09-2	3-Nitroaniline	1.9	U	47	1.9
100-01-6	4-Nitroaniline	3.8	U	47	1.9
98-95-3	Nitrobenzene	1.9	U	19	0.76
88-75-5	2-Nitrophenol	0.94	U	19	0.37
100-02-7	4-Nitrophenol	0.94	U	47	1.2
129-00-0	Pyrene	0.94	U	9.4	0.35
87-86-5	Pentachlorophenol	38	U	75	19
85-01-8	Phenanthrene	0.94	U	9.4	0.24
120-82-1	1,2,4-Trichlorobenzene	0.94	U Q	9.4	0.26
95-95-4	2,4,5-Trichlorophenol	0.94	U	19	0.42
88-06-2	2,4,6-Trichlorophenol	0.94	U	19	0.27
108-95-2	Phenol	0.94	U	9.4	1.9
86-74-8	Carbazole	0.94	U	9.4	0.40
62-75-9	N-Nitrosodimethylamine	0.94	U	9.4	0.27
117-81-7	Bis(2-ethylhexyl) phthalate	0.94	U	9.4	0.53
117-84-0	Di-n-octyl phthalate	0.94	U	19	0.33
15831-10-4	3 & 4 Methylphenol	0.94	U	19	0.23
59-50-7	4-Chloro-3-methylphenol	4.7	U	19	2.3
108-60-1	2,2'-oxybis[1-chloropropane]	0.94	U	9.4	0.26
106-47-8	4-Chloroaniline	4.7	U	23	2.0

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6
 Matrix: Water Lab File ID: D7637.D
 Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:30
 Extract. Method: 3520C Date Extracted: 08/07/2010 16:12
 Sample wt/vol: 1064 (mL) Date Analyzed: 08/19/2010 20:16
 Con. Extract Vol.: 1000 (uL) Dilution Factor: 1
 Injection Volume: 0.5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	3.8	U	9.4	1.3
930-55-2	N-Nitrosopyrrolidine	3.8	U	9.4	0.76

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	80	50-110	
367-12-4	2-Fluorophenol (Surr)	85	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	82	40-110	
1718-51-0	Terphenyl-d14 (Surr)	109	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	103	40-125	
4165-62-2	Phenol-d5 (Surr)	92	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- RE Lab Sample ID: 280-6075-6 RE

Matrix: Water Lab File ID: B9904.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:30

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1059(mL) Date Analyzed: 08/28/2010 21:53

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	0.94	U H	9.4	0.26
208-96-8	Acenaphthylene	0.94	U H	9.4	0.46
120-12-7	Anthracene	0.94	U H	9.4	0.40
92-87-5	Benzidine	94	U H	190	47
56-55-3	Benzo[a]anthracene	0.94	U H	9.4	0.33
65-85-0	Benzoic acid	47	U H	76	9.4
205-99-2	Benzo[b]fluoranthene	0.94	U H	9.4	0.50
207-08-9	Benzo[k]fluoranthene	0.94	U H	9.4	0.43
100-51-6	Benzyl alcohol	0.28	J H	24	0.22
111-91-1	Bis(2-chloroethoxy)methane	3.8	U H	9.4	0.92
111-44-4	Bis(2-chloroethyl) ether	0.94	U H	19	0.39
101-55-3	4-Bromophenyl phenyl ether	0.94	U H	9.4	0.41
85-68-7	Butyl benzyl phthalate	3.8	U H	19	0.94
105-67-9	2,4-Dimethylphenol	3.8	U H	9.4	0.55
131-11-3	Dimethyl phthalate	0.94	U H	19	0.20
534-52-1	4,6-Dinitro-2-methylphenol	9.4	U H	76	3.8
51-28-5	2,4-Dinitrophenol	19	U H	76	9.4
121-14-2	2,4-Dinitrotoluene	3.8	U H	19	1.6
606-20-2	2,6-Dinitrotoluene	3.8	U H	19	1.8
206-44-0	Fluoranthene	0.94	U H	19	0.19
86-73-7	Fluorene	0.94	U H	9.4	0.29
122-66-7	1,2-Diphenylhydrazine	0.94	U H	9.4	0.22
118-74-1	Hexachlorobenzene	0.94	U H	9.4	0.62
87-68-3	Hexachlorobutadiene	9.4	U H	28	3.1
67-72-1	Hexachloroethane	0.94	U H	9.4	2.0
86-30-6	N-Nitrosodiphenylamine	0.94	U H	9.4	0.42
621-64-7	N-Nitrosodi-n-propylamine	0.94	U H	19	0.33
106-46-7	1,4-Dichlorobenzene	0.94	U H	9.4	0.30
91-58-7	2-Chloronaphthalene	0.94	U H	9.4	0.25
95-57-8	2-Chlorophenol	3.8	U H	9.4	1.9
7005-72-3	4-Chlorophenyl phenyl ether	3.8	U H	9.4	1.6
218-01-9	Chrysene	0.94	U H	9.4	0.51
53-70-3	Dibenz(a,h)anthracene	0.94	U H	9.4	0.48
132-64-9	Dibenzofuran	0.94	U H	9.4	0.27

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- RE Lab Sample ID: 280-6075-6 RE

Matrix: Water Lab File ID: B9904.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:30

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1059(mL) Date Analyzed: 08/28/2010 21:53

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	0.94	U H	9.4	0.47
50-32-8	Benzo[a]pyrene	0.94	U H	9.4	0.29
84-74-2	Di-n-butyl phthalate	3.8	U H	19	1.1
95-50-1	1,2-Dichlorobenzene	0.94	U H	9.4	0.22
541-73-1	1,3-Dichlorobenzene	0.94	U H	9.4	0.28
91-94-1	3,3'-Dichlorobenzidine	9.4	U H	47	1.9
120-83-2	2,4-Dichlorophenol	1.9	U H	9.4	0.60
84-66-2	Diethyl phthalate	0.94	U H	19	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	0.94	U H	9.4	0.61
78-59-1	Isophorone	0.94	U H	9.4	0.20
91-57-6	2-Methylnaphthalene	0.94	U H	9.4	0.27
95-48-7	2-Methylphenol	3.8	U H	9.4	0.93
91-20-3	Naphthalene	0.94	U H	9.4	0.27
88-74-4	2-Nitroaniline	3.8	U H	47	1.6
99-09-2	3-Nitroaniline	1.9	U H	47	1.9
100-01-6	4-Nitroaniline	3.8	U H	47	1.9
98-95-3	Nitrobenzene	1.9	U H	19	0.76
88-75-5	2-Nitrophenol	0.94	U H	19	0.37
100-02-7	4-Nitrophenol	9.4	U H	47	1.2
129-00-0	Pyrene	0.94	U H	9.4	0.35
87-86-5	Pentachlorophenol	38	U H	76	19
85-01-8	Phenanthrene	1.2	J H	9.4	0.25
120-82-1	1,2,4-Trichlorobenzene	0.94	U H	9.4	0.26
95-95-4	2,4,5-Trichlorophenol	0.94	U H	19	0.42
88-06-2	2,4,6-Trichlorophenol	0.94	U H	19	0.27
108-95-2	Phenol	4.7	U H	9.4	1.9
86-74-8	Carbazole	0.94	U H	9.4	0.41
62-75-9	N-Nitrosodimethylamine	0.94	U H	9.4	0.27
117-81-7	Bis(2-ethylhexyl) phthalate	2.8	J H	9.4	0.53
117-84-0	Di-n-octyl phthalate	0.94	U H	19	0.33
15831-10-4	3 & 4 Methylphenol	0.94	U H	19	0.24
59-50-7	4-Chloro-3-methylphenol	4.7	U H	19	2.3
108-60-1	2,2'-oxybis[1-chloropropane]	0.94	U H	9.4	0.26
106-47-8	4-Chloroaniline	4.7	U H	24	2.0

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- RE Lab Sample ID: 280-6075-6 RE

Matrix: Water Lab File ID: B9904.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 08:30

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1059(mL) Date Analyzed: 08/28/2010 21:53

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	3.8	U H	9.4	1.3
930-55-2	N-Nitrosopyrrolidine	3.8	U H	9.4	0.76

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	68	50-110	
367-12-4	2-Fluorophenol (Surr)	80	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	83	40-110	
1718-51-0	Terphenyl-d14 (Surr)	83	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	86	40-125	
4165-62-2	Phenol-d5 (Surr)	83	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: RINSATE Lab Sample ID: 280-6075-7

Matrix: Water Lab File ID: D7638.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 11:45

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1060(mL) Date Analyzed: 08/19/2010 20:34

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	0.94	U Q	9.4	0.26
208-96-8	Acenaphthylene	0.94	U Q	9.4	0.46
120-12-7	Anthracene	0.94	U	9.4	0.40
92-87-5	Benzidine	94	U	190	47
56-55-3	Benzo[a]anthracene	0.94	U	9.4	0.33
65-85-0	Benzoic acid	47	U	75	9.4
205-99-2	Benzo[b]fluoranthene	0.94	U	9.4	0.50
207-08-9	Benzo[k]fluoranthene	0.94	U	9.4	0.43
100-51-6	Benzyl alcohol	0.94	U	24	0.22
111-91-1	Bis(2-chloroethoxy)methane	3.8	U	9.4	0.92
111-44-4	Bis(2-chloroethyl)ether	0.94	U	19	0.39
101-55-3	4-Bromophenyl phenyl ether	0.94	U	9.4	0.41
85-68-7	Butyl benzyl phthalate	3.8	U	19	0.94
105-67-9	2,4-Dimethylphenol	3.8	U	9.4	0.55
131-11-3	Dimethyl phthalate	0.94	U	19	0.20
534-52-1	4,6-Dinitro-2-methylphenol	9.4	U	75	3.8
51-28-5	2,4-Dinitrophenol	19	U	75	9.4
121-14-2	2,4-Dinitrotoluene	3.8	U	19	1.6
606-20-2	2,6-Dinitrotoluene	3.8	U	19	1.8
206-44-0	Fluoranthene	0.94	U	19	0.19
86-73-7	Fluorene	0.94	U	9.4	0.29
122-66-7	1,2-Diphenylhydrazine	0.94	U	9.4	0.22
118-74-1	Hexachlorobenzene	0.94	U	9.4	0.62
87-68-3	Hexachlorobutadiene	9.4	U	28	3.1
67-72-1	Hexachloroethane	0.94	U	9.4	2.0
86-30-6	N-Nitrosodiphenylamine	0.94	U	9.4	0.42
621-64-7	N-Nitrosodi-n-propylamine	0.94	U	19	0.33
106-46-7	1,4-Dichlorobenzene	0.94	U	9.4	0.30
91-58-7	2-Chloronaphthalene	0.94	U Q	9.4	0.25
95-57-8	2-Chlorophenol	3.8	U	9.4	1.9
7005-72-3	4-Chlorophenyl phenyl ether	3.8	U	9.4	1.6
218-01-9	Chrysene	0.94	U	9.4	0.51
53-70-3	Dibenz(a,h)anthracene	0.94	U	9.4	0.48
132-64-9	Dibenzofuran	0.94	U Q	9.4	0.27

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: RINSATE Lab Sample ID: 280-6075-7

Matrix: Water Lab File ID: D7638.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 11:45

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1060(mL) Date Analyzed: 08/19/2010 20:34

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	0.94	U	9.4	0.47
50-32-8	Benzo[a]pyrene	0.94	U	9.4	0.29
84-74-2	Di-n-butyl phthalate	3.8	U	19	1.1
95-50-1	1,2-Dichlorobenzene	0.94	U	9.4	0.22
541-73-1	1,3-Dichlorobenzene	0.94	U	9.4	0.28
91-94-1	3,3'-Dichlorobenzidine	9.4	U	47	1.9
120-83-2	2,4-Dichlorophenol	1.9	U	9.4	0.60
84-66-2	Diethyl phthalate	0.94	U	19	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	0.94	U	9.4	0.61
78-59-1	Isophorone	0.94	U	9.4	0.20
91-57-6	2-Methylnaphthalene	0.94	U Q	9.4	0.27
95-48-7	2-Methylphenol	3.8	U	9.4	0.92
91-20-3	Naphthalene	0.94	U	9.4	0.27
88-74-4	2-Nitroaniline	3.8	U	47	1.6
99-09-2	3-Nitroaniline	1.9	U	47	1.9
100-01-6	4-Nitroaniline	3.8	U	47	1.9
98-95-3	Nitrobenzene	1.9	U	19	0.76
88-75-5	2-Nitrophenol	0.94	U	19	0.37
100-02-7	4-Nitrophenol	0.94	U	47	1.2
129-00-0	Pyrene	0.94	U	9.4	0.35
87-86-5	Pentachlorophenol	38	U	75	19
85-01-8	Phenanthrene	0.94	U	9.4	0.25
120-82-1	1,2,4-Trichlorobenzene	0.94	U Q	9.4	0.26
95-95-4	2,4,5-Trichlorophenol	0.94	U	19	0.42
88-06-2	2,4,6-Trichlorophenol	0.94	U	19	0.27
108-95-2	Phenol	0.94	U	9.4	1.9
86-74-8	Carbazole	0.94	U	9.4	0.41
62-75-9	N-Nitrosodimethylamine	0.94	U	9.4	0.27
117-81-7	Bis(2-ethylhexyl) phthalate	0.94	U	9.4	0.53
117-84-0	Di-n-octyl phthalate	0.94	U	19	0.33
15831-10-4	3 & 4 Methylphenol	0.94	U	19	0.24
59-50-7	4-Chloro-3-methylphenol	4.7	U	19	2.3
108-60-1	2,2'-oxybis[1-chloropropane]	0.94	U	9.4	0.26
106-47-8	4-Chloroaniline	4.7	U	24	2.0

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Client Sample ID: RINSATE Lab Sample ID: 280-6075-7
 Matrix: Water Lab File ID: D7638.D
 Analysis Method: 8270C/DoD Date Collected: 08/02/2010 11:45
 Extract. Method: 3520C Date Extracted: 08/07/2010 16:12
 Sample wt/vol: 1060 (mL) Date Analyzed: 08/19/2010 20:34
 Con. Extract Vol.: 1000 (uL) Dilution Factor: 1
 Injection Volume: 0.5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	3.8	U	9.4	1.3
930-55-2	N-Nitrosopyrrolidine	3.8	U	9.4	0.76

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	82	50-110	
367-12-4	2-Fluorophenol (Surr)	81	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	80	40-110	
1718-51-0	Terphenyl-d14 (Surr)	104	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	99	40-125	
4165-62-2	Phenol-d5 (Surr)	88	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8

Matrix: Solid Lab File ID: D7595.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 11:30

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.3(g) Date Analyzed: 08/17/2010 22:56

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 5.4 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	18	U	350	11
208-96-8	Acenaphthylene	35	U	350	18
120-12-7	Anthracene	35	U	350	18
92-87-5	Benzidine	4100	U	4200	1000
56-55-3	Benzo[a]anthracene	35	U	350	21
65-85-0	Benzoic acid	690	U Q	1700	350
205-99-2	Benzo[b]fluoranthene	35	U	350	27
207-08-9	Benzo[k]fluoranthene	69	U	350	42
100-51-6	Benzyl alcohol	35	U	350	10
111-91-1	Bis(2-chloroethoxy)methane	69	U	350	24
111-44-4	Bis(2-chloroethyl)ether	35	U	350	17
101-55-3	4-Bromophenyl phenyl ether	35	U	350	20
85-68-7	Butyl benzyl phthalate	69	U	350	45
105-67-9	2,4-Dimethylphenol	140	U	350	69
131-11-3	Dimethyl phthalate	35	U	350	24
534-52-1	4,6-Dinitro-2-methylphenol	690	U Q	1700	350
51-28-5	2,4-Dinitrophenol	700	U Q	1700	350
121-14-2	2,4-Dinitrotoluene	140	U	350	69
606-20-2	2,6-Dinitrotoluene	69	U	350	29
206-44-0	Fluoranthene	69	U	350	38
86-73-7	Fluorene	35	U	350	19
122-66-7	1,2-Diphenylhydrazine	35	U	350	23
118-74-1	Hexachlorobenzene	69	U	350	30
87-68-3	Hexachlorobutadiene	69	U	350	10
67-72-1	Hexachloroethane	35	U	350	22
86-30-6	N-Nitrosodiphenylamine	35	U	350	22
621-64-7	N-Nitrosodi-n-propylamine	69	U	350	32
106-46-7	1,4-Dichlorobenzene	35	U	350	14
91-58-7	2-Chloronaphthalene	35	U	350	10
95-57-8	2-Chlorophenol	35	U	350	22
7005-72-3	4-Chlorophenyl phenyl ether	69	U	350	22
218-01-9	Chrysene	35	U	350	28
53-70-3	Dibenz(a,h)anthracene	35	U	350	20
132-64-9	Dibenzofuran	35	U	350	21

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8

Matrix: Solid Lab File ID: D7595.D

Analysis Method: 8270C/DoD Date Collected: 08/02/2010 11:30

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.3(g) Date Analyzed: 08/17/2010 22:56

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: 5.4 GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	35	U	350	17
50-32-8	Benzo[a]pyrene	35	U	350	21
84-74-2	Di-n-butyl phthalate	35	U	350	30
95-50-1	1,2-Dichlorobenzene	35	U	350	23
541-73-1	1,3-Dichlorobenzene	35	U	350	13
91-94-1	3,3'-Dichlorobenzidine	350	U	1700	94
120-83-2	2,4-Dichlorophenol	69	U	350	10
84-66-2	Diethyl phthalate	35	U	690	27
193-39-5	Indeno[1,2,3-cd]pyrene	35	U	350	23
78-59-1	Isophorone	35	U	350	18
91-57-6	2-Methylnaphthalene	35	U	350	20
95-48-7	2-Methylphenol	35	U	350	14
91-20-3	Naphthalene	69	U	350	32
88-74-4	2-Nitroaniline	69	U	1700	52
99-09-2	3-Nitroaniline	69	U	1700	76
100-01-6	4-Nitroaniline	140	U	1700	76
98-95-3	Nitrobenzene	35	U	350	23
88-75-5	2-Nitrophenol	69	U	350	10
100-02-7	4-Nitrophenol	350	U	1700	100
129-00-0	Pyrene	35	U	420	13
87-86-5	Pentachlorophenol	700	U	1700	350
85-01-8	Phenanthrene	35	U	350	18
120-82-1	1,2,4-Trichlorobenzene	35	U	350	29
95-95-4	2,4,5-Trichlorophenol	140	U	350	10
88-06-2	2,4,6-Trichlorophenol	69	U	350	10
108-95-2	Phenol	35	U	350	19
86-74-8	Carbazole	35	U	350	38
62-75-9	N-Nitrosodimethylamine	69	U	540	39
117-81-7	Bis(2-ethylhexyl) phthalate	56	J	350	48
117-84-0	Di-n-octyl phthalate	69	U	350	15
15831-10-4	3 & 4 Methylphenol	69	U	350	35
59-50-7	4-Chloro-3-methylphenol	140	U	350	69
108-60-1	2,2'-oxybis[1-chloropropane]	35	U	350	24
106-47-8	4-Chloroaniline	140	U	350	86

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8
Matrix: Solid Lab File ID: D7595.D
Analysis Method: 8270C/DoD Date Collected: 08/02/2010 11:30
Extract. Method: 3550C Date Extracted: 08/10/2010 14:30
Sample wt/vol: 30.3(g) Date Analyzed: 08/17/2010 22:56
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: 5.4 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	140	U	350	72
930-55-2	N-Nitrosopyrrolidine	140	U	350	67

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	70	45-105	
367-12-4	2-Fluorophenol (Surr)	73	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	65	35-100	
1718-51-0	Terphenyl-d14 (Surr)	87	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	84	35-125	
4165-62-2	Phenol-d5 (Surr)	76	40-100	

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112224

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-29057/8	B9892.D
Level 2	IC 280-29057/7	B9891.D
Level 3	IC 280-29057/6	B9890.D
Level 4	ICIS 280-29057/5	B9889.D
Level 5	IC 280-29057/4	B9888.D
Level 6	IC 280-29057/3	B9887.D
Level 7	IC 280-29057/2	B9886.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 4	LVL 5		B	M1	M2								
2-Picoline	1.7356 1.5966	1.6953 1.5253	1.7135	1.6412	1.6330	Ave		1.6486				4.4					
N-Nitrosomethylethylamine	0.7221 0.7366	0.7228 0.7123	0.7506	0.7297	0.7355	Ave		0.7300				1.7					
Methyl methanesulfonate	0.7160 0.6379	0.6871 0.5864	0.7130	0.6880	0.6812	Ave		0.6728				6.8					
N-Nitrosodiethylamine	0.7224 0.7199	0.7309 0.6810	0.7603	0.7296	0.7267	Ave		0.7244				3.2					
Ethyl methanesulfonate	1.1707 1.0823	1.1500 1.0386	1.1637	1.1238	1.1113	Ave		1.1201				4.2					
Pentachloroethane	0.5716 0.5147	0.5667 0.4835	0.5670	0.5441	0.5305	Ave		0.5397				6.0					
N-Nitrosopyrrolidine	0.7216 0.6703	0.7398 0.6398	0.7771	0.7293	0.7061	Ave		0.7120				6.4					
N-Nitrosomorpholine	0.3139 0.2857	0.3140 0.2699	0.3304	0.3122	0.3034	Ave		0.3042				6.7					
2-Toluidine	2.4705 2.0069	2.3094 1.9099	2.3788	2.2359	2.1345	Ave		2.2066				9.1					
N-Nitrosopiperidine	0.1799 0.1746	0.1827 0.1721	0.1918	0.1837	0.1835	Ave		0.1812				3.6					
o,o',o''-Triethylphosphorothioate	0.1761 0.1594	0.1757 0.1577	0.1790	0.1704	0.1677	Ave		0.1694				4.9					
alpha,alpha-Dimethyl phenethylamine	0.4037 0.8300	0.7872 0.8354	0.8482	0.8442	0.8461	Lin2	0.1233	0.9023							0.9937		
2,6-Dichlorophenol	0.2609 0.2538	0.2730 0.2542	0.2866	0.2733	0.2685	Ave		0.2672				4.4					
Hexachloropropene	0.1908 0.2026	0.2045 0.1950	0.2202	0.2135	0.2127	Ave		0.2056				5.1					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112225

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

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 4	LVL 5		B	M1	M2								
N-Nitrosodi-n-butylamine	0.2205 0.2198	0.2316 0.2165	0.2374	0.2348	0.2299	Ave		0.2272				3.6					
p-Phenylene diamine	0.4116 0.4036	0.4910 0.3900	0.5273	0.4618	0.4571	Ave		0.4489				11.2					
Safrole, Total	0.2754 0.2415	0.2774 0.2399	0.2853	0.2690	0.2614	Ave		0.2643				6.7					
1,2,4,5-Tetrachlorobenzene	0.3481 0.2933	0.3395 0.2880	0.3372	0.3196	0.3120	Ave		0.3197				7.3					
Isosafrole Peak 1	0.4905 0.5210	0.5036 0.5042	0.5254	0.5101	0.5189	Ave		0.5105				2.4					
Isosafrole Peak 2	0.2726 0.2525	0.2779 0.2453	0.2865	0.2715	0.2697	Ave		0.2680				5.3					
1,1'-Biphenyl	1.6465 1.1984	1.5799 1.1399	1.4990	1.3787	1.3011	Ave		1.3919				13.8					
1-Chloronaphthalene	1.1774 0.9072	1.1220 0.8713	1.1019	1.0119	0.9867	Ave		1.0255				11.1					
1,4-Naphthoquinone	0.2787 0.2837	0.3361	0.3909	0.3410	0.3351	Ave		0.3276				12.7					
1,4-Dinitrobenzene	0.1131 0.1757	0.1412 0.1648	0.1699	0.1706	0.1774	Lin2	0.0925	0.1781						0.9986			
1,3-Dinitrobenzene	0.1702 0.2045	0.1919 0.1926	0.2142	0.2083	0.2100	Ave		0.1988				7.7					
Pentachlorobenzene	0.5384 0.4624	0.5217 0.4435	0.5204	0.4972	0.4820	Ave		0.4951				7.0					
1-Naphthylamine	1.3570 1.0301	1.3767 0.9854	1.3442	1.2257	1.1639	Ave		1.2119				13.2					
2,3,4,6-Tetrachlorophenol	0.3026 0.3336	0.3181 0.3220	0.3507	0.3446	0.3477	Ave		0.3313				5.4					
2-Naphthylamine	1.4179 1.1039	1.4079 1.0394	1.3612	1.2676	1.2088	Ave		1.2581				11.8					
Thionazin	0.2808 0.2613	0.2961 0.2515	0.2971	0.2880	0.2789	Ave		0.2791				6.2					
N-Nitro-o-toluidine	0.3352 0.3658	0.3803 0.3490	0.3992	0.3873	0.3853	Ave		0.3717				6.2					
Diphenylamine	1.2358 0.9282	1.1966 0.8933	1.1530	1.0787	1.0198	Ave		1.0722				12.3					
Sulfotepp	0.1122 0.0983	0.1198 0.0971	0.1204	0.1146	0.1075	Ave		0.1100				8.6					
Diallate Peak 1	0.3666 0.3081	0.3745 0.3083	0.3745	0.3540	0.3354	Ave		0.3459				8.4					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112226

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

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 4	LVL 5		B	M1	M2								
1,3,5-Trinitrobenzene	0.0269 0.0619	0.0414 0.0583	0.0597	0.0621	0.0646	Lin2	0.1515	0.0651							0.9964		
Phorate	0.1432 0.1151	0.1452 0.1124	0.1479	0.1368	0.1286	Ave		0.1327				10.9					
Phenacetin	0.3014 0.3099	0.3280 0.3309	0.3634	0.3525	0.3400	Ave		0.3323				6.6					
Diallate Peak 2	0.1802 0.2062	0.1948 0.2034	0.2090	0.2035	0.2049	Ave		0.2003				4.9					
Dimethoate	0.2497 0.1930	0.2648 0.1882	0.2587	0.2356	0.2221	Ave		0.2303				13.3					
4-Aminobiphenyl	0.8611 0.5992	0.8675 0.5734	0.8169	0.7260	0.6759	Qua	0.0396	0.9122	0.2900						0.9989		
Pronamide	0.2898 0.2106	0.2988 0.2038	0.2821	0.2570	0.2342	Qua	0.0212	2.8339	2.0704						0.9989		
Pentachloronitrobenzene	0.0848 0.0731	0.0883 0.0714	0.0874	0.0838	0.0784	Ave		0.0810				8.4					
Disulfoton	0.3735 0.2997	0.3869 0.2949	0.3906	0.3589	0.3371	Ave		0.3488				11.3					
Dinoseb	0.0560 0.1401	0.0824 0.1373	0.1239	0.1345	0.1402	Lin2	0.1643	0.1439							0.9966		
Methyl parathion	0.1869 0.1744	0.2178 0.1695	0.2268	0.2127	0.1980	Ave		0.1980				11.2					
Ethyl Parathion	0.0992 0.1305	0.1270 0.1286	0.1495	0.1434	0.1407	Ave		0.1313				12.5					
Methapyrilene	0.2695 0.1733	0.3000 0.1562	0.2651	0.2351	0.2094	Qua	0.2848	0.0530	7.5098						0.9940		
4-Nitroquinoline-1-oxide	0.0464 0.1035	0.0733 0.1007	0.1036	0.1091	0.1091	Lin2	0.1488	0.1116							0.9965		
Isodrin	0.1266 0.1057	0.1280 0.1042	0.1236	0.1181	0.1121	Ave		0.1169				8.4					
Aramite Peak 1	0.0581 0.0808	0.0714 0.0789	0.0877	0.0871	0.0866	Ave		0.0787				13.7					
Aramite Peak 2	0.1088 0.1327	0.1289 0.1274	0.1476	0.1414	0.1419	Ave		0.1327				9.7					
p-Dimethylamino azobenzene	0.2767 0.2295	0.3011 0.2208	0.3079	0.2850	0.2609	Ave		0.2688				12.5					
Ethyl 4,4'-Dichlorobenzilate	0.2416 0.2558	0.2553 0.2475	0.2824	0.2736	0.2682	Ave		0.2606				5.6					
3,3'-Dimethylbenzidine	0.5632 0.5468	0.6340 0.5149	0.6406	0.6049	0.5869	Ave		0.5845				7.9					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112227

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

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 4	LVL 5		B	M1	M2								
2-Acetylaminofluorene	0.2269 0.3559	0.3042 0.3428	0.3775	0.3747	0.3676	Lin2	0.0972	0.3790							0.9964		
7,12-Dimethylbenz(a)anthracene	0.4691 0.5001	0.5088 0.4929	0.5427	0.5415	0.5215	Ave		0.5109				5.2					
3-Methylcholanthrene	0.4296 0.5631	0.4953 0.5525	0.5727	0.5725	0.5724	Ave		0.5368				10.2					
Dibenz[a,j]acridine	0.6199 0.8580	0.7186 0.8416	0.8458	0.8469	0.8636	Ave		0.7992				11.7					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112228

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-29057/8	B9892.D
Level 2	IC 280-29057/7	B9891.D
Level 3	IC 280-29057/6	B9890.D
Level 4	ICIS 280-29057/5	B9889.D
Level 5	IC 280-29057/4	B9888.D
Level 6	IC 280-29057/3	B9887.D
Level 7	IC 280-29057/2	B9886.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Picoline	DCB	Ave	125425 1946051	242845 2096522	613211	928018	1324074	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosomethylethylamine	DCB	Ave	52184 897880	103539 979022	268612	412624	596402	10.0 160	20.0 200	50.0	80.0	120
Methyl methanesulfonate	DCB	Ave	51738 777575	98418 805988	255154	389008	552343	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosodiethylamine	DCB	Ave	52207 877549	104692 936048	272097	412537	589219	10.0 160	20.0 200	50.0	80.0	120
Ethyl methanesulfonate	DCB	Ave	84600 1319270	164736 1427510	416475	635459	901079	10.0 160	20.0 200	50.0	80.0	120
Pentachloroethane	DCB	Ave	41309 627356	81175 664513	202925	307650	430112	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosopyrrolidine	DCB	Ave	52146 817042	105977 879436	278106	412383	572539	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosomorpholine	DCB	Ave	22683 348269	44985 370965	118242	176511	246032	10.0 160	20.0 200	50.0	80.0	120
2-Toluidine	DCB	Ave	178529 2446252	330816 2625106	851327	1264307	1730760	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosopiperidine	NPT	Ave	51380 866474	102325 931182	270726	410301	589831	10.0 160	20.0 200	50.0	80.0	120
o,o',o''-Triethylphosphorothioate	NPT	Ave	50316 791434	98353 853169	252715	380550	539218	10.0 160	20.0 200	50.0	80.0	120
alpha,alpha-Dimethyl phenethylamine	NPT	Lin2	115318 4119704	440747 4519014	1197412	1885498	2720034	10.0 160	20.0 200	50.0	80.0	120
2,6-Dichlorophenol	NPT	Ave	74528 1259575	152836 1375020	404569	610360	863035	10.0 160	20.0 200	50.0	80.0	120
Hexachloropropene	NPT	Ave	54514 1005718	114476 1054540	310807	476730	683700	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosodi-n-butylamine	NPT	Ave	62984 1090867	129675 1170940	335142	524320	739050	10.0 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112229

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
p-Phenylene diamine	NPT	Ave	117564 2003416	274913 2109681	744362	1031406	1469392	10.0 160	20.0 200	50.0	80.0	120
Safrole, Total	NPT	Ave	78674 1198951	155335 1297484	402778	600876	840318	10.0 160	20.0 200	50.0	80.0	120
1,2,4,5-Tetrachlorobenzene	NPT	Ave	99449 1455690	190103 1557782	475974	713881	1003037	10.0 160	20.0 200	50.0	80.0	120
Isosafrole Peak 1	ANT	Ave	13487 259411	27638 281528	74708	114966	168751	1.75 28.0	3.50 35.0	8.75	14.0	21.0
Isosafrole Peak 2	ANT	Ave	35337 592765	71898 645713	192036	288518	413498	8.25 132	16.5 165	41.3	66.0	99.0
1,1'-Biphenyl	ANT	Ave	258683 3409611	495468 3637095	1217927	1775550	2417747	10.0 160	20.0 200	50.0	80.0	120
1-Chloronaphthalene	ANT	Ave	184980 2581110	351878 2779887	895268	1303178	1833456	10.0 160	20.0 200	50.0	80.0	120
1,4-Naphthoquinone	ANT	Ave	43786 807113	105406	317601	439192	622759	10.0 160	20.0	50.0	80.0	120
1,4-Dinitrobenzene	ANT	Lin2	17775 499808	44277 525908	138072	219766	329725	10.0 160	20.0 200	50.0	80.0	120
1,3-Dinitrobenzene	ANT	Ave	26736 581909	60192 614534	174044	268290	390256	10.0 160	20.0 200	50.0	80.0	120
Pentachlorobenzene	ANT	Ave	84587 1315539	163613 1415048	422842	640347	895737	10.0 160	20.0 200	50.0	80.0	120
1-Naphthylamine	ANT	Ave	213193 2930953	431758 3144063	1092201	1578569	2162717	10.0 160	20.0 200	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Ave	47536 949128	99772 1027353	284925	443781	646102	10.0 160	20.0 200	50.0	80.0	120
2-Naphthylamine	ANT	Ave	222766 3140799	441529 3316342	1106005	1632460	2246239	10.0 160	20.0 200	50.0	80.0	120
Thionazin	ANT	Ave	44121 743464	92849 802298	241361	370854	518341	10.0 160	20.0 200	50.0	80.0	120
N-Nitro-o-toluidine	ANT	Ave	52657 1040837	119261 1113530	324320	498813	715928	10.0 160	20.0 200	50.0	80.0	120
Diphenylamine	ANT	Ave	194154 2640894	375264 2850203	936824	1389245	1894998	10.0 160	20.0 200	50.0	80.0	120
Sulfotepp	PHN	Ave	31401 496826	66048 530937	170983	258683	353180	10.0 160	20.0 200	50.0	80.0	120
Diallate Peak 1	PHN	Ave	73841 1120744	148664 1214012	383071	577642	793606	7.20 115	14.4 144	36.0	57.8	86.4
1,3,5-Trinitrobenzene	PHN	Lin2	7528 312484	22824 318679	84818	140179	212276	10.0 160	20.0 200	50.0	80.0	120
Phorate	PHN	Ave	40061 581407	80038 614732	210050	308814	422713	10.0 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112230

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Phenacetin	PHN	Ave	84328 1565874	180820 1809413	516317	795924	1117536	10.0 160	20.0 200	50.0	80.0	120
Diallate Peak 2	PHN	Ave	14113 291689	30079 311488	83147	129830	188589	2.80 44.8	5.60 56.0	14.0	22.6	33.6
Dimethoate	PHN	Ave	69863 975036	145984 1029250	367577	532065	729822	10.0 160	20.0 200	50.0	80.0	120
4-Aminobiphenyl	PHN	Qua	240906 3027207	478272 3135872	1160583	1639551	2221379	10.0 160	20.0 200	50.0	80.0	120
Pronamide	PHN	Qua	81089 1063785	164736 1114592	400828	580250	769523	10.0 160	20.0 200	50.0	80.0	120
Pentachloronitrobenzene	PHN	Ave	23731 369499	48659 390247	124213	189248	257703	10.0 160	20.0 200	50.0	80.0	120
Disulfoton	PHN	Ave	104490 1513969	213286 1612782	554925	810494	1107956	10.0 160	20.0 200	50.0	80.0	120
Dinoseb	PHN	Lin2	15662 707877	45432 750629	176075	303740	460598	10.0 160	20.0 200	50.0	80.0	120
Methyl parathion	PHN	Ave	52281 881149	120060 927115	322254	480251	650569	10.0 160	20.0 200	50.0	80.0	120
Ethyl Parathion	PHN	Ave	27745 659439	70036 703192	212443	323713	462312	10.0 160	20.0 200	50.0	80.0	120
Methapyrilene	PHN	Qua	75401 875379	165370 854238	376655	530935	688267	10.0 160	20.0 200	50.0	80.0	120
4-Nitroquinoline-1-oxide	PHN	Lin2	12975 522749	40399 550471	147169	246401	358473	10.0 160	20.0 200	50.0	80.0	120
Isodrin	PHN	Ave	35414 533988	70547 569811	175608	266633	368400	10.0 160	20.0 200	50.0	80.0	120
Aramite Peak 1	CRY	Ave	8623 212989	21043 227471	65557	100945	148917	4.60 73.6	9.20 91.0	23.0	36.0	55.2
Aramite Peak 2	CRY	Ave	18941 410782	44597 439964	129545	196667	286241	5.40 86.4	10.8 109	27.0	43.2	64.8
p-Dimethylamino azobenzene	CRY	Ave	89248 1315008	192897 1399180	500393	733988	974696	10.0 160	20.0 200	50.0	80.0	120
Ethyl 4,4'-Dichlorobenzilate	CRY	Ave	77903 1465911	163558 1568551	459024	704661	1002236	10.0 160	20.0 200	50.0	80.0	120
3,3'-Dimethylbenzidine	CRY	Ave	181638 3133403	406075 3263342	1041139	1557733	2192962	10.0 160	20.0 200	50.0	80.0	120
2-Acetylaminofluorene	CRY	Lin2	73192 2039291	194881 2172548	613557	964912	1373414	10.0 160	20.0 200	50.0	80.0	120
7,12-Dimethylbenz(a)anthracene	PRY	Ave	140479 2659479	303981 2839755	830152	1277740	1810112	10.0 160	20.0 200	50.0	80.0	120
3-Methylcholanthrene	PRY	Ave	128642 2994395	295881 3182893	876065	1350755	1986862	10.0 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112231

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29057

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 07:46 Calibration End Date: 08/28/2010 09:40 Calibration ID: 2713

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dibenz[a,j]acridine	PRY	Ave	185645 4562815	429285 4848532	1293796	1998237	2997794	10.0 160	20.0 200	50.0	80.0	120

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112232

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-29075/9	B9902.D
Level 2	IC 280-29075/8	B9901.D
Level 3	IC 280-29075/7	B9900.D
Level 4	IC 280-29075/6	B9899.D
Level 5	ICIS 280-29075/5	B9898.D
Level 6	IC 280-29075/4	B9897.D
Level 7	IC 280-29075/3	B9896.D
Level 8	IC 280-29075/2	B9895.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								
1,4-Dioxane	0.6569 0.6220	0.6945 0.6181	0.6702 0.6101	0.6604	0.6351	Ave		0.6459				4.5					
N-Nitrosodimethylamine	0.9428 0.9695	1.0008 0.9729	0.9929 0.9476	1.0313	0.9995	Ave		0.9822				3.0					
Pyridine	1.6570 1.6781	1.7422 1.6844	1.7730 1.6469	1.7894	1.7319	Ave		1.7129				3.1					
Phenol	1.8100 1.6858	1.9233 1.6503	1.9311 1.5763	1.9402	1.7988	Ave		1.7895				7.8					
Aniline	2.3910 2.2186	2.4664 2.1850	2.4755 2.1291	2.4974	2.3571	Ave		2.3400				6.2					
Methyl styrene	++++ 1.3117	1.5772 1.2602	1.6102 1.1849	1.5508	1.4368	Ave		1.4188				11.9					
Bis(2-chloroethyl)ether	1.5134 1.2649	1.5417 1.1880	1.5570 1.1118	1.4849	1.3428	Ave		1.3756				12.6					
n-Decane	1.2358 1.0366	1.2829 1.0028	1.2719 0.9540	1.2091	1.1207	Ave		1.1392				11.3					
2-Chlorophenol	1.4637 1.3457	1.5611 1.2976	1.5842 1.2480	1.5394	1.4422	Ave		1.4352				8.8					
1,3-Dichlorobenzene	1.6999 1.5094	1.7536 1.4618	1.7797 1.3918	1.7274	1.6168	Ave		1.6175				9.1					
1,4-Dichlorobenzene	1.8105 1.5095	1.7894 1.4641	1.7937 1.4193	1.7391	1.6232	Ave		1.6436				9.8					
Benzyl alcohol	0.8581 0.9517	0.9636 0.9339	0.9938 0.9058	1.0517	0.9917	Ave		0.9563				6.2					
1,2-Dichlorobenzene	1.6644 1.4100	1.7079 1.3680	1.6796 1.2958	1.6521	1.5197	Ave		1.5372				10.5					
2-Methylphenol	1.2997 1.3160	1.4696 1.2758	1.4668 1.2433	1.4739	1.3833	Ave		1.3661				6.9					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112233

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

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								
2,2'-oxybis[1-chloropropane]	1.7388 1.5998	1.7655 1.5832	1.7584 1.5150	1.7825	1.6762	Ave		1.6774				6.0					
Indene	2.3359 2.0894	2.4169 2.0396	2.4682 1.9424	2.4052	2.2463	Ave		2.2430				8.8					
3 & 4 Methylphenol	1.3419 1.3655	1.4827 1.3373	1.5497 1.2804	1.5442	1.4489	Ave		1.4188				7.2					
3-Methylphenol	1.3419 1.3655	1.4827 1.3373	1.5497 1.2804	1.5442	1.4489	Ave		1.4188				7.2					
4-Methylphenol	1.3419 1.3655	1.4827 1.3373	1.5497 1.2804	1.5442	1.4489	Ave		1.4188				7.2					
N-Nitrosodi-n-propylamine	0.9005 0.9859	1.0318 0.9730	1.0766 0.9214	1.0953	1.0358	Ave		1.0025				7.0					
Acetophenone	2.0198 1.8449	2.0919 1.7967	2.1155 1.7187	2.0915	1.9570	Ave		1.9545				7.7					
Hexachloroethane	0.6247 0.6071	0.6629 0.5953	0.6625 0.5759	0.6726	0.6435	Ave		0.6306				5.6					
Nitrobenzene	0.3700 0.3684	0.3944 0.3574	0.4053 0.3360	0.4089	0.3930	Ave		0.3792				6.7					
Isophorone	0.5833 0.6572	0.6722 0.6389	0.7184 0.6051	0.7277	0.6945	Ave		0.6622				7.8					
2,4-Dimethylphenol	0.3301 0.3147	0.3576 0.2972	0.3708 0.2737	0.3704	0.3463	Ave		0.3326				10.6					
2-Nitrophenol	0.1281 0.1619	0.1549 0.1533	0.1735 0.1416	0.1866	0.1734	Ave		0.1592				11.9					
Benzoic acid	+++++ 0.1805	+++++ 0.2055	0.1536 0.1895	0.2010	0.2080	Ave		0.1897				10.8					
Bis (2-chloroethoxy)methane	0.4354 0.4032	0.4501 0.3772	0.4561 0.3535	0.4556	0.4322	Ave		0.4204				9.2					
2,4-Dichlorophenol	0.2446 0.2784	0.2886 0.2683	0.2965 0.2524	0.3130	0.2912	Ave		0.2791				8.2					
1,2,4-Trichlorobenzene	0.3771 0.3195	0.3733 0.3038	0.3674 0.2862	0.3612	0.3410	Ave		0.3412				10.1					
Naphthalene	1.1850 0.9322	1.1517 0.8850	1.1416 0.8130	1.0987	1.0279	Ave		1.0294				13.4					
4-Chloroaniline	0.4360 0.4222	0.4686 0.4061	0.4861 0.3799	0.4829	0.4561	Ave		0.4422				8.6					
Hexachlorobutadiene	0.1994 0.1806	0.2002 0.1755	0.2019 0.1676	0.2007	0.1905	Ave		0.1896				7.1					
Caprolactam	+++++ 0.1237	0.1071 0.1374	0.1243 0.1320	0.1399	0.1246	Ave		0.1270				8.6					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112234

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

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								
4-Chloro-3-methylphenol	0.2522 0.2898	0.2817 0.2794	0.3053 0.2650	0.3230	0.3065	Ave		0.2879				8.1					
2-Methylnaphthalene	0.7499 0.6295	0.7513 0.5982	0.7635 0.5522	0.7515	0.6925	Ave		0.6861				12.0					
1-Methylnaphthalene	0.7289 0.6196	0.7444 0.5823	0.7423 0.5414	0.7220	0.6723	Ave		0.6691				11.8					
Hexachlorocyclopentadiene	0.2368 0.3617	0.2944 0.3587	0.3209 0.3501	0.3645	0.3637	Ave		0.3314				13.8					
2,4,6-Trichlorophenol	0.2394 0.3327	0.3218 0.3228	0.3420 0.3079	0.3622	0.3497	Ave		0.3223				11.7					
2,3-Dichlorobenzeneamine	0.6396 0.5734	0.6662 0.5375	0.6660 0.5051	0.6314	0.6105	Ave		0.6037				9.9					
2,4,5-Trichlorophenol	0.2795 0.3677	0.3676 0.3589	0.3868 0.3410	0.4054	0.3864	Ave		0.3617				10.7					
2-Chloronaphthalene	1.1792 0.9806	1.1986 0.9235	1.1799 0.8731	1.1315	1.0638	Ave		1.0663				11.9					
2-Nitroaniline	0.2143 0.3169	0.2818 0.3105	0.3162 0.2941	0.3367	0.3307	Ave		0.3002				13.0					
Dimethyl phthalate	1.2640 1.1058	1.3046 1.0695	1.2911 1.0143	1.2707	1.1847	Ave		1.1881				9.4					
2,6-Dinitrotoluene	0.2459 0.2872	0.2945 0.2774	0.3043 0.2902	0.3151	0.3023	Ave		0.2896				7.3					
Acenaphthylene	1.8313 1.6042	1.9449 1.5168	1.9308 1.4012	1.8991	1.7457	Ave		1.7342				11.8					
3-Nitroaniline	0.2673 0.3470	0.3336 0.3338	0.3658 0.3205	0.3700	0.3610	Ave		0.3374				9.9					
Acenaphthene	1.2343 0.9794	1.2354 0.9302	1.2131 0.8549	1.1481	1.0692	Ave		1.0831				13.7					
2,4-Dinitrophenol	+++++ 0.1514	+++++ 0.1544	0.0838 0.1533	0.1280	0.1398	Lin2	0.2445	0.1621							0.9997		
4-Nitrophenol	+++++ 0.1792	0.1425 0.1802	0.1712 0.1792	0.1893	0.1893	Ave		0.1758				9.1					
2,4-Dinitrotoluene	0.2591 0.3733	0.3388 0.3658	0.3747 0.3454	0.4001	0.3909	Ave		0.3560				12.4					
Dibenzofuran	1.7541 1.4303	1.7873 1.3467	1.7693 1.2612	1.6834	1.5563	Ave		1.5736				13.1					
Hexadecane	0.6079 0.5981	0.6863 0.5675	0.7147 0.5214	0.6993	0.6498	Ave		0.6306				10.8					
Diethyl phthalate	1.2301 1.1006	1.3019 1.0554	1.3106 0.9804	1.2820	1.1974	Ave		1.1823				10.4					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112235

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

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								
4-Chlorophenyl phenyl ether	0.6502 0.5857	0.6843 0.5643	0.6846 0.5269	0.6604	0.6254	Ave		0.6227				9.4					
Fluorene	1.4022 1.1687	1.4643 1.1154	1.4450 1.0272	1.3853	1.2781	Ave		1.2858				12.8					
4-Nitroaniline	++++ 0.3318	0.3390 0.3204	0.3625 0.3031	0.3742	0.3579	Ave		0.3413				7.4					
4,6-Dinitro-2-methylphenol	++++ 0.1194	++++ 0.1147	0.0901 0.1127	0.1163	0.1193	Ave		0.1121				9.9					
N-Nitrosodiphenylamine	0.6709 0.5895	0.7205 0.5424	0.7124 0.5188	0.6704	0.6343	Ave		0.6324				11.9					
1,2-Diphenylhydrazine	1.3290 1.2476	1.4349 1.1732	1.4565 1.0977	1.4139	1.3514	Ave		1.3130				9.9					
Azobenzene	1.3436 1.2613	1.4507 1.1861	1.4724 1.1097	1.4294	1.3662	Ave		1.3274				9.9					
2,4,6 - Tribromophenol	0.1392 0.2219	0.1803 0.2206	0.2074 0.2160	0.2217	0.2258	Ave		0.2041				14.7					
4-Bromophenyl phenyl ether	0.2229 0.2214	0.2362 0.2120	0.2385 0.2058	0.2389	0.2310	Ave		0.2258				5.5					
Hexachlorobenzene	0.2494 0.2400	0.2602 0.2264	0.2583 0.2260	0.2549	0.2478	Ave		0.2454				5.5					
Atrazine	0.1481 0.1953	0.1939 0.1820	0.2089 0.1755	0.2130	0.2042	Ave		0.1901				11.2					
Pentachlorophenol	++++ 0.1470	++++ 0.1427	0.1181 0.1443	0.1424	0.1452	Ave		0.1399				7.7					
Phenanthrene	1.2245 0.9716	1.2516 0.8825	1.2212 0.8324	1.1328	1.0530	Qua	0.0314	0.6665	0.1269					0.9998			
Anthracene	1.0930 0.9838	1.1919 0.8974	1.2276 0.8515	1.1518	1.0693	Ave		1.0583				12.9					
Carbazole	1.0808 0.9428	1.1372 0.8681	1.1595 0.8115	1.1061	1.0285	Ave		1.0168				12.7					
Alachlor	++++ 0.1372	0.1309 0.1278	0.1469 0.1251	0.1501	0.1445	Ave		0.1375				7.2					
Di-n-butyl phthalate	0.9343 1.0724	1.1515 0.9822	1.2546 0.9280	1.2219	1.1706	Ave		1.0894				11.9					
Fluoranthene	1.1201 1.0734	1.2429 0.9844	1.2613 0.9344	1.2318	1.1507	Ave		1.1249				10.8					
Benzidine	++++ 0.6214	++++ 0.5958	0.6432 0.5916	0.6803	0.6447	Ave		0.6295				5.3					
Pyrene	1.1527 1.0278	1.2027 0.9658	1.2240 0.9218	1.1713	1.1113	Ave		1.0972				10.3					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112236

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

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								
Famphur	++++ 0.3058	0.3084 0.2755	0.3577 0.2435	0.3771	0.3536	Qua	0.2471	0.7244	2.5326						0.9976		
Butyl benzyl phthalate	0.3641 0.4292	0.4721 0.4034	0.4910 0.3822	0.4917	0.4665	Ave		0.4375				11.4					
Bis(2-ethylhexyl) phthalate	0.2438 0.6254	0.4460 0.6002	0.5696 0.5736	0.6609	0.6509	Lin2	0.0629	0.6389							0.9957		
3,3'-Dichlorobenzidine	++++ 0.4004	0.3381 0.3910	0.3943 0.3799	0.4241	0.4136	Ave		0.3916				7.1					
Benzo[a]anthracene	1.0434 1.0469	1.1321 0.9965	1.1324 0.9540	1.1382	1.0862	Ave		1.0662				6.4					
Chrysene	1.1855 1.0089	1.1764 0.9538	1.1692 0.8987	1.1384	1.0963	Ave		1.0784				10.3					
Di-n-octyl phthalate	++++ 1.0605	0.6086 1.0215	0.8414 1.0044	1.0653	1.0791	Lin2	0.1094	1.0944							0.9972		
Benzo[b]fluoranthene	0.9598 1.0180	1.1010 0.9937	1.1874 1.0205	1.2434	1.0907	Ave		1.0768				9.2					
Benzo[k]fluoranthene	1.1340 1.2265	1.2683 1.1589	1.2734 1.0438	1.2327	1.3076	Ave		1.2057				7.3					
Benzo[a]pyrene	0.7831 1.0481	0.9717 1.0063	1.1029 0.9804	1.1370	1.1039	Ave		1.0167				11.1					
Dibenz(a,h)anthracene	0.7385 0.9973	0.9068 0.9804	0.9942 0.9614	1.0590	1.0367	Ave		0.9593				10.5					
Indeno[1,2,3-cd]pyrene	0.8949 1.2393	1.0464 1.2304	1.1735 1.2345	1.2623	1.2571	Ave		1.1673				11.2					
Benzo[g,h,i]perylene	0.8307 1.0747	0.9750 1.0686	1.0500 1.0483	1.1178	1.1112	Ave		1.0345				9.0					
2-Fluorophenol (Surr)	++++ 1.3403	1.4783 1.3107	1.4891 1.2568	1.4982	1.4205	Ave		1.3991				6.9					
Phenol-d5 (Surr)	++++ 1.5936	1.8243 1.5546	1.8628 1.4968	1.8339	1.7020	Ave		1.6954				8.8					
Nitrobenzene-d5 (Surr)	++++ 0.3795	0.3795 0.3675	0.3992 0.3498	0.4162	0.3953	Ave		0.3839				5.7					
2-Fluorobiphenyl	++++ 1.1358	1.3705 1.0677	1.3652 0.9951	1.2875	1.2108	Ave		1.2047				12.1					
2,4,6-Tribromophenol (Surr)	0.1392 0.2219	0.1803 0.2206	0.2074 0.2160	0.2217	0.2258	Ave		0.2041				14.7					
Terphenyl-d14 (Surr)	++++ 0.7263	0.7980 0.6942	0.8037 0.6722	0.7973	0.7586	Ave		0.7500				7.1					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112237

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-29075/9	B9902.D
Level 2	IC 280-29075/8	B9901.D
Level 3	IC 280-29075/7	B9900.D
Level 4	IC 280-29075/6	B9899.D
Level 5	ICIS 280-29075/5	B9898.D
Level 6	IC 280-29075/4	B9897.D
Level 7	IC 280-29075/3	B9896.D
Level 8	IC 280-29075/2	B9895.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
1,4-Dioxane	DCB	Ave	17891 541968	48347 690908	93580 841625	239208	359726	4.00 120	10.0 160	20.0 200	50.0	80.0
N-Nitrosodimethylamine	DCB	Ave	25679 844699	69662 1087465	138638 1307262	373555	566131	4.00 120	10.0 160	20.0 200	50.0	80.0
Pyridine	DCB	Ave	45133 1462088	121274 1882642	247577 2271875	648172	980948	4.00 120	10.0 160	20.0 200	50.0	80.0
Phenol	DCB	Ave	49299 1468804	133878 1844575	269648 2174563	702821	1018830	4.00 120	10.0 160	20.0 200	50.0	80.0
Aniline	DCB	Ave	65124 1933011	171684 2442188	345664 2937159	904637	1335069	4.00 120	10.0 160	20.0 200	50.0	80.0
Methyl styrene	DCB	Ave	++++ 1142804	109789 1408587	224844 1634542	561753	813819	++++ 120	10.0 160	20.0 200	50.0	80.0
Bis(2-chloroethyl)ether	DCB	Ave	41222 1102078	107320 1327790	217413 1533715	537863	760534	4.00 120	10.0 160	20.0 200	50.0	80.0
n-Decane	DCB	Ave	33661 903151	89305 1120885	177595 1316049	437971	634776	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Chlorophenol	DCB	Ave	39866 1172498	108669 1450321	221208 1721652	557631	816842	4.00 120	10.0 160	20.0 200	50.0	80.0
1,3-Dichlorobenzene	DCB	Ave	46301 1315132	122065 1633880	248508 1920022	625705	915722	4.00 120	10.0 160	20.0 200	50.0	80.0
1,4-Dichlorobenzene	DCB	Ave	49312 1315188	124560 1636466	250457 1957882	629955	919383	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzyl alcohol	DCB	Ave	23373 829209	67079 1043798	138774 1249502	380962	561691	4.00 120	10.0 160	20.0 200	50.0	80.0
1,2-Dichlorobenzene	DCB	Ave	45334 1228506	118883 1529080	234537 1787512	598432	860777	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Methylphenol	DCB	Ave	35400 1146601	102301 1425977	204817 1715133	533880	783501	4.00 120	10.0 160	20.0 200	50.0	80.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	47360 1393869	122894 1769542	245535 2090005	645688	949370	4.00 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112238

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
Indene	DCB	Ave	63623 1820469	168240 2279682	344648 2679558	871254	1272315	4.00 120	10.0 160	20.0 200	50.0	80.0
3 & 4 Methylphenol	DCB	Ave	36551 1189711	103213 1494739	216398 1766345	559353	820652	4.00 120	10.0 160	20.0 200	50.0	80.0
3-Methylphenol	DCB	Ave	36551 1189711	103213 1494739	216398 1766345	559353	820652	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Methylphenol	DCB	Ave	36551 1189711	103213 1494739	216398 1766345	559353	820652	4.00 120	10.0 160	20.0 200	50.0	80.0
N-Nitrosodi-n-propylamine	DCB	Ave	24528 858996	71822 1087504	150330 1271139	396754	586654	4.00 120	10.0 160	20.0 200	50.0	80.0
Acetophenone	DCB	Ave	55015 1607369	145616 2008141	295402 2370993	757612	1108461	4.00 120	10.0 160	20.0 200	50.0	80.0
Hexachloroethane	DCB	Ave	17015 528959	46142 665411	92508 794437	243643	364491	4.00 120	10.0 160	20.0 200	50.0	80.0
Nitrobenzene	NPT	Ave	38677 1265898	108856 1605054	224901 1903991	584400	870533	4.00 120	10.0 160	20.0 200	50.0	80.0
Isophorone	NPT	Ave	60979 2257906	185517 2869559	398636 3428738	1040149	1538404	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4-Dimethylphenol	NPT	Ave	34503 1081179	98705 1334793	205755 1551185	529453	767155	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Nitrophenol	NPT	Ave	13392 556389	42746 688590	96284 802677	266696	384177	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzoic acid	NPT	Ave	++++ 620211	++++ 922818	85251 1073784	287349	460798	++++ 120	++++ 160	20.0 200	50.0	80.0
Bis (2-chloroethoxy)methane	NPT	Ave	45511 1385382	124238 1693900	253097 2003028	651261	957458	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4-Dichlorophenol	NPT	Ave	25574 956436	79647 1204773	164518 1430341	447349	645023	4.00 120	10.0 160	20.0 200	50.0	80.0
1,2,4-Trichlorobenzene	NPT	Ave	39424 1097644	103035 1364301	203886 1621886	516301	755320	4.00 120	10.0 160	20.0 200	50.0	80.0
Naphthalene	NPT	Ave	123872 3202665	317886 3974420	633452 4606803	1570330	2276981	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Chloroaniline	NPT	Ave	45572 1450630	129327 1823945	269716 2152745	690144	1010345	4.00 120	10.0 160	20.0 200	50.0	80.0
Hexachlorobutadiene	NPT	Ave	20846 620366	55268 788053	112026 949530	286929	422017	4.00 120	10.0 160	20.0 200	50.0	80.0
Caprolactam	NPT	Ave	++++ 424850	29556 617237	68956 748189	199995	276044	++++ 120	10.0 160	20.0 200	50.0	80.0
4-Chloro-3-methylphenol	NPT	Ave	26359 995791	77755 1254806	169410 1501874	461725	678943	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Methylnaphthalene	NPT	Ave	78388 2162740	207364 2686707	423647 3129225	1074158	1533877	4.00 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112239

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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-Methylnaphthalene	NPT	Ave	76199 2128716	205462 2615074	411894 3067750	1031940	1489198	4.00 120	10.0 160	20.0 200	50.0	80.0
Hexachlorocyclopentadiene	ANT	Ave	14012 727769	46497 942502	102816 1155743	308188	474069	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4,6-Trichlorophenol	ANT	Ave	14162 669397	50812 848242	109561 1016529	306232	455715	4.00 120	10.0 160	20.0 200	50.0	80.0
2,3-Dichlorobenzeneamine	ANT	Ave	37838 1153714	105212 1412419	213341 1667313	533821	795735	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4,5-Trichlorophenol	ANT	Ave	16535 739762	58048 943038	123906 1125779	342777	503582	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Chloronaphthalene	ANT	Ave	69761 1973178	189278 2426497	377973 2882409	956655	1386430	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Nitroaniline	ANT	Ave	12680 637664	44498 815845	101306 970857	284688	430974	4.00 120	10.0 160	20.0 200	50.0	80.0
Dimethyl phthalate	ANT	Ave	74780 2224998	206017 2810296	413610 3348438	1074355	1544043	4.00 120	10.0 160	20.0 200	50.0	80.0
2,6-Dinitrotoluene	ANT	Ave	14550 577981	46506 728960	97493 862139	266403	394041	4.00 120	10.0 160	20.0 180	50.0	80.0
Acenaphthylene	ANT	Ave	108340 3227869	307126 3985465	618537 4625524	1605618	2275202	4.00 120	10.0 160	20.0 200	50.0	80.0
3-Nitroaniline	ANT	Ave	15815 698192	52683 877075	117191 1057925	312789	470540	4.00 120	10.0 160	20.0 200	50.0	80.0
Acenaphthene	ANT	Ave	73022 1970580	195095 2444131	388623 2822072	970706	1393470	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4-Dinitrophenol	ANT	Lin2	+++++ 304576	+++++ 405667	26852 506074	108242	182176	+++++ 120	+++++ 160	20.0 200	50.0	80.0
4-Nitrophenol	ANT	Ave	+++++ 360581	22509 473556	54838 591453	160040	246731	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,4-Dinitrotoluene	ANT	Ave	15329 751149	53502 961089	120039 1140360	338255	509414	4.00 120	10.0 160	20.0 200	50.0	80.0
Dibenzofuran	ANT	Ave	103773 2877896	282245 3538555	566812 4163369	1423263	2028346	4.00 120	10.0 160	20.0 200	50.0	80.0
Hexadecane	ANT	Ave	35965 1203448	108378 1491185	228949 1721373	591268	846835	4.00 120	10.0 160	20.0 200	50.0	80.0
Diethyl phthalate	ANT	Ave	72773 2214625	205587 2773167	419848 3236455	1083915	1560528	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Chlorophenyl phenyl ether	ANT	Ave	38466 1178500	108059 1482717	219329 1739381	558355	815095	4.00 120	10.0 160	20.0 200	50.0	80.0
Fluorene	ANT	Ave	82958 2351537	231240 2930833	462914 3391022	1171204	1665805	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Nitroaniline	ANT	Ave	+++++ 667582	53526 841920	116144 1000678	316369	466430	+++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112240

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 410579	+++++ 530248	49864 643347	171557	268346	+++++ 120	+++++ 160	20.0 200	50.0	80.0
N-Nitrosodiphenylamine	PHN	Ave	68823 2026905	197815 2507662	394150 2962244	988689	1426986	4.00 120	10.0 160	20.0 200	50.0	80.0
1,2-Diphenylhydrazine	ANT	Ave	79491 2537874	229089 3116449	471704 3663443	1208549	1780600	4.04 121	10.1 162	20.2 202	50.5	80.9
Azobenzene	ANT	Ave	79491 2537874	229089 3116449	471704 3663443	1208549	1780600	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4,6 - Tribromophenol	ANT	Ave	12357 669831	42711 869424	99672 1069546	281176	441344	6.00 180	15.0 240	30.0 300	75.0	120
4-Bromophenyl phenyl ether	PHN	Ave	22862 761141	64850 980026	131946 1175053	352310	519671	4.00 120	10.0 160	20.0 200	50.0	80.0
Hexachlorobenzene	PHN	Ave	25581 825360	71441 1046617	142938 1290161	375889	557385	4.00 120	10.0 160	20.0 200	50.0	80.0
Atrazine	PHN	Ave	15196 671643	53227 841434	115578 1002264	314136	459256	4.00 120	10.0 160	20.0 200	50.0	80.0
Pentachlorophenol	PHN	Ave	+++++ 505371	+++++ 659550	65351 823868	210046	326535	+++++ 120	+++++ 160	20.0 200	50.0	80.0
Phenanthrene	PHN	Qua	125605 3340775	343638 4080079	675686 4752863	1670703	2368740	4.00 120	10.0 160	20.0 200	50.0	80.0
Anthracene	PHN	Ave	112116 3382740	327248 4148975	679200 4862007	1698763	2405517	4.00 120	10.0 160	20.0 200	50.0	80.0
Carbazole	PHN	Ave	110869 3241660	312217 4013459	641526 4633675	1631294	2313592	4.00 120	10.0 160	20.0 200	50.0	80.0
Alachlor	PHN	Ave	+++++ 471791	35931 590910	81265 714170	221320	324982	+++++ 120	10.0 160	20.0 200	50.0	80.0
Di-n-butyl phthalate	PHN	Ave	95833 3687161	316165 4540936	694142 5298635	1802099	2633371	4.00 120	10.0 160	20.0 200	50.0	80.0
Fluoranthene	PHN	Ave	114898 3690676	341258 4551283	697865 5335097	1816661	2588591	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzidine	CRY	Ave	+++++ 2398364	+++++ 3015584	418696 3659068	1140713	1638585	+++++ 120	+++++ 160	20.0 200	50.0	80.0
Pyrene	CRY	Ave	138669 3967117	386547 4888242	796777 5701102	1964052	2824516	4.00 120	10.0 160	20.0 200	50.0	80.0
Famphur	CRY	Qua	+++++ 1180289	99126 1394506	232878 1505947	632346	898655	+++++ 120	10.0 160	20.0 200	50.0	80.0
Butyl benzyl phthalate	CRY	Ave	43796 1656665	151740 2041858	319635 2363793	824465	1185728	4.00 120	10.0 160	20.0 200	50.0	80.0
Bis(2-ethylhexyl) phthalate	CRY	Lin2	29324 2413863	143331 3037831	370777 3547624	1108079	1654466	4.00 120	10.0 160	20.0 200	50.0	80.0
3,3'-Dichlorobenzidine	CRY	Ave	+++++ 1545572	108669 1979192	256708 2349698	711106	1051225	+++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112241

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 29075

SDG No.: _____

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2010 10:39 Calibration End Date: 08/28/2010 13:01 Calibration ID: 2729

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
Benzo[a]anthracene	CRY	Ave	125517 4040668	363852 5043798	737144 5900328	1908405	2760779	4.00 120	10.0 160	20.0 200	50.0	80.0
Chrysene	CRY	Ave	142611 3893844	378077 4827438	761094 5558027	1908798	2786459	4.00 120	10.0 160	20.0 200	50.0	80.0
Di-n-octyl phthalate	CRY	Lin2	++++ 4093342	195602 5170372	547756 6211764	1786280	2742741	++++ 120	10.0 160	20.0 200	50.0	80.0
Benzo[b]fluoranthene	PRY	Ave	107482 3947314	330257 5098015	729080 6546353	2013080	2693300	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[k]fluoranthene	PRY	Ave	126990 4755863	380450 5945391	781873 6696222	1995630	3228881	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[a]pyrene	PRY	Ave	87695 4063910	291471 5162508	677199 6289397	1840734	2725921	4.00 120	10.0 160	20.0 200	50.0	80.0
Dibenz(a,h)anthracene	PRY	Ave	82700 3867025	271991 5029725	610453 6167502	1714456	2560070	4.00 120	10.0 160	20.0 200	50.0	80.0
Indeno[1,2,3-cd]pyrene	CRY	Ave	107653 4783182	336294 6227595	763917 7635202	2116494	3195087	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[g,h,i]perylene	PRY	Ave	93020 4167276	292463 5482093	644712 6724746	1809760	2744048	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Fluorophenol (Surr)	DCB	Ave	++++ 1751634	154355 2197439	311895 2600632	814053	1206851	++++ 180	15.0 240	30.0 300	75.0	120
Phenol-d5 (Surr)	DCB	Ave	++++ 2082730	190486 2606395	390177 3097200	996427	1446019	++++ 180	15.0 240	30.0 300	75.0	120
Nitrobenzene-d5 (Surr)	NPT	Ave	++++ 1303755	104741 1650614	221530 1982038	594901	875701	++++ 120	10.0 160	20.0 200	50.0	80.0
2-Fluorobiphenyl	ANT	Ave	++++ 2285421	216430 2805468	437347 3284919	1088576	1578015	++++ 120	10.0 160	20.0 200	50.0	80.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	12357 669831	42711 869424	99672 1069546	281176	441344	6.00 180	15.0 240	30.0 300	75.0	120
Terphenyl-d14 (Surr)	CRY	Ave	++++ 2803142	256476 3513499	523209 4157190	1336948	1928175	++++ 120	10.0 160	20.0 200	50.0	80.0

Curve Type Legend:
Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112242

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26451/9	D7266.D
Level 2	IC 280-26451/8	D7265.D
Level 3	IC 280-26451/7	D7264.D
Level 4	IC 280-26451/6	D7263.D
Level 5	ICIS 280-26451/5	D7262.D
Level 6	IC 280-26451/4	D7261.D
Level 7	IC 280-26451/3	D7260.D
Level 8	IC 280-26451/2	D7259.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								
1,4-Dioxane	0.5600 0.5076	0.5745 0.4966	0.5952 0.4996	0.5085	0.5172	Ave		0.5324				7.2					
N-Nitrosodimethylamine	++++ 0.8158	0.8148 0.7978	0.8479 0.7944	0.8106	0.8355	Ave		0.8167				2.4					
Pyridine	++++ 1.4059	1.3383 1.3406	1.4289 1.3717	1.4028	1.3850	Ave		1.3819				2.5					
Phenol	++++ 1.7269	1.6040 1.7160	1.6673 1.7674	1.6505	1.6524	Ave		1.6835				3.3					
Aniline	++++ 2.1068	1.9832 2.0685	2.0520 2.0825	2.0531	2.0558	Ave		2.0574				1.9					
Methyl styrene	++++ 1.4823	1.3343 1.5011	1.4074 1.5223	1.4099	1.4272	Ave		1.4407				4.5					
Bis(2-chloroethyl)ether	++++ 1.3875	1.3188 1.3765	1.3089 1.4326	1.3181	1.3495	Ave		1.3560				3.3					
n-Decane	++++ 1.0265	0.9466 1.0563	0.9667 1.0826	0.9451	0.9814	Ave		1.0007				5.5					
2-Chlorophenol	++++ 1.4609	1.3152 1.4390	1.3096 1.4800	1.3425	1.3879	Ave		1.3907				5.1					
1,3-Dichlorobenzene	1.5549 1.6177	1.5860 1.6404	1.6159 1.6678	1.5848	1.6018	Ave		1.6087				2.2					
1,4-Dichlorobenzene	1.5770 1.6938	1.6382 1.6629	1.6204 1.7341	1.6419	1.6346	Ave		1.6504				2.9					
Benzyl alcohol	++++ 0.8513	0.7165 0.8574	0.7503 0.8486	0.8046	0.8144	Ave		0.8061				6.7					
1,2-Dichlorobenzene	1.4292 1.6170	1.5216 1.5978	1.5027 1.6687	1.5275	1.5736	Ave		1.5548				4.8					
2-Methylphenol	++++ 1.2773	1.1490 1.2632	1.1983 1.2954	1.2537	1.2146	Ave		1.2359				4.1					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112243

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

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								
2,2'-oxybis[1-chloropropane]	++++ 1.0238	1.0262 1.0097	1.0060 1.0453	1.0119	0.9970	Ave		1.0171				1.6					
Indene	++++ 2.1077	1.8955 2.0733	1.9583 2.1562	1.9839	2.0395	Ave		2.0306				4.5					
3 & 4 Methylphenol	++++ 1.4182	1.1946 1.4156	1.2756 1.4439	1.3159	1.3276	Ave		1.3416				6.7					
3-Methylphenol	++++ 1.4182	1.1946 1.4156	1.2756 1.4439	1.3159	1.3276	Ave		1.3416				6.7					
4-Methylphenol	++++ 1.4182	1.1946 1.4156	1.2756 1.4439	1.3159	1.3276	Ave		1.3416				6.7					
N-Nitrosodi-n-propylamine	++++ 1.1796	1.0102 1.1888	1.0769 1.2415	1.0984	1.1328	Ave		1.1326				6.9					
Acetophenone	++++ 1.9698	1.8381 1.9793	1.9263 2.0617	1.9021	1.9016	Ave		1.9398				3.7					
Hexachloroethane	0.7458 0.7557	0.6965 0.7679	0.7671 0.7824	0.7173	0.7305	Ave		0.7454				3.9					
Nitrobenzene	++++ 0.5172	0.4624 0.5086	0.4960 0.5161	0.4957	0.4996	Ave		0.4994				3.7					
Isophorone	++++ 0.8087	0.7225 0.8079	0.7413 0.8155	0.7918	0.7942	Ave		0.7831				4.6					
2-Nitrophenol	++++ 0.2259	0.1790 0.2274	0.2034 0.2332	0.2129	0.2220	Ave		0.2148				8.7					
2,4-Dimethylphenol	++++ 0.4381	0.3915 0.4517	0.3975 0.4612	0.4207	0.4343	Ave		0.4278				6.1					
Benzoic acid	++++ 0.2315	0.1273 0.2299	0.1505 0.2382	0.2027	0.2088	Lin2	0.1274	0.2334							0.9950		
Bis(2-chloroethoxy)methane	++++ 0.4655	0.4148 0.4640	0.4307 0.4766	0.4404	0.4429	Ave		0.4478				4.9					
2,4-Dichlorophenol	++++ 0.3614	0.3058 0.3635	0.3407 0.3814	0.3474	0.3622	Ave		0.3518				6.8					
1,2,4-Trichlorobenzene	0.4123 0.5132	0.4500 0.5216	0.4330 0.5426	0.4606	0.4822	Ave		0.4770				9.6					
Naphthalene	1.1179 1.1477	1.0623 1.1467	1.0741 1.1764	1.1149	1.1156	Ave		1.1194				3.4					
4-Chloroaniline	++++ 0.5017	0.4289 0.4981	0.4660 0.5184	0.4982	0.4925	Ave		0.4862				6.1					
Hexachlorobutadiene	++++ 0.3269	0.2994 0.3294	0.2994 0.3390	0.3043	0.3121	Ave		0.3158				5.1					
Caprolactam	++++ 0.1113	0.0864 0.1123	0.1014 0.1133	0.1066	0.1132	Ave		0.1063				9.2					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112244

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

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								
4-Chloro-3-methylphenol	++++ 0.3692	0.3016 0.3606	0.3149 0.3722	0.3481	0.3476	Ave		0.3449				7.8					
2-Methylnaphthalene	0.6755 0.8007	0.6750 0.8159	0.7182 0.8541	0.7639	0.7825	Ave		0.7607				8.6					
1-Methylnaphthalene	0.7219 0.7735	0.6902 0.7860	0.7012 0.8351	0.7259	0.7485	Ave		0.7478				6.5					
2,4-Dinitrophenol	++++ 0.1942	0.0573 0.2065	0.1021 0.2134	0.1490	0.1784	Lin1	0.2337	0.2154							0.9954		
Hexachlorocyclopentadiene	++++ 0.5690	0.4455 0.5937	0.4425 0.6058	0.5153	0.5449	Ave		0.5310				12.5					
2,4,6-Trichlorophenol	++++ 0.4814	0.3818 0.5036	0.3955 0.5167	0.4266	0.4649	Ave		0.4529				11.6					
2,3-Dichlorobenzenamine	++++ 0.6772	0.6107 0.7142	0.5836 0.7095	0.6370	0.6519	Ave		0.6549				7.5					
2,4,5-Trichlorophenol	++++ 0.4829	0.3825 0.5005	0.3978 0.5014	0.4272	0.4654	Ave		0.4511				10.8					
2-Chloronaphthalene	1.0401 1.1769	1.0577 1.2269	1.0297 1.2290	1.1180	1.1451	Ave		1.1279				7.1					
2-Nitroaniline	++++ 0.3703	0.2897 0.3774	0.3115 0.3679	0.3463	0.3582	Ave		0.3459				9.6					
Dimethyl phthalate	1.2681 1.4554	1.3550 1.4763	1.3086 1.4686	1.3790	1.4114	Ave		1.3903				5.5					
2,6-Dinitrotoluene	++++ 0.3241	0.2877 0.3342	0.2856 0.3650	0.3135	0.3207	Ave		0.3187				8.6					
Acenaphthylene	1.6377 1.9277	1.6921 2.0068	1.6869 2.0044	1.8224	1.8464	Ave		1.8281				8.0					
3-Nitroaniline	++++ 0.3166	0.2991 0.3259	0.2760 0.3228	0.3063	0.3172	Ave		0.3091				5.6					
Acenaphthene	1.0122 1.1931	0.9995 1.2398	1.0069 1.2641	1.1014	1.1367	Ave		1.1192				9.6					
4-Nitrophenol	++++ 0.3029	0.2128 0.3135	0.2385 0.3001	0.2857	0.2939	Ave		0.2782				13.5					
2,4-Dinitrotoluene	++++ 0.4316	0.3343 0.4648	0.3598 0.4662	0.3956	0.4186	Ave		0.4101				12.3					
Dibenzofuran	1.5436 1.7785	1.5277 1.8631	1.5576 1.8840	1.6747	1.7391	Ave		1.6960				8.4					
Hexadecane	++++ 0.5170	0.4463 0.5338	0.4529 0.5444	0.4902	0.4967	Ave		0.4973				7.6					
Diethyl phthalate	1.1706 1.3827	1.2533 1.4318	1.2257 1.4225	1.3088	1.3516	Ave		1.3184				7.2					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112245

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

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								
4-Chlorophenyl phenyl ether	++++ 0.7937	0.6435 0.8378	0.6791 0.8549	0.7298	0.7636	Ave		0.7575				10.4					
Fluorene	1.1980 1.4663	1.2875 1.5344	1.2577 1.5537	1.3576	1.4197	Ave		1.3844				9.5					
4-Nitroaniline	++++ 0.3271	0.2613 0.3439	0.2674 0.3428	0.3064	0.3212	Ave		0.3100				10.9					
4,6-Dinitro-2-methylphenol	++++ 0.1704	++++ 0.1681	0.1150 0.1781	0.1490	0.1618	Lin2	0.1846	0.1797						0.9993			
N-Nitrosodiphenylamine	++++ 0.6808	0.5605 0.6933	0.6254 0.7182	0.6407	0.6640	Ave		0.6547				7.9					
1,2-Diphenylhydrazine	1.4639 1.7286	1.5908 1.7351	1.5826 1.7094	1.6716	1.7075	Ave		1.6487				5.8					
Azobenzene	1.4800 1.7476	1.6083 1.7542	1.5999 1.7282	1.6899	1.7263	Ave		1.6668				5.8					
2,4,6 - Tribromophenol	0.1718 0.2707	0.1895 0.2924	0.2148 0.3079	0.2389	0.2529	Qua	0.0872	4.0943	-0.389					0.9998			
4-Bromophenyl phenyl ether	++++ 0.2647	0.2261 0.2749	0.2401 0.2916	0.2497	0.2647	Ave		0.2588				8.5					
Hexachlorobenzene	++++ 0.2831	0.2310 0.2867	0.2489 0.3041	0.2600	0.2701	Ave		0.2691				9.2					
Atrazine	++++ 0.2448	0.1978 0.2477	0.2264 0.2568	0.2400	0.2423	Ave		0.2366				8.2					
Pentachlorophenol	++++ 0.1746	++++ 0.1758	0.1265 0.1862	0.1540	0.1670	Ave		0.1640				13.0					
Phenanthrene	1.0660 1.1883	1.0045 1.1845	1.0891 1.1769	1.1455	1.1577	Ave		1.1266				5.9					
Anthracene	1.0033 1.2241	0.9878 1.2115	1.0863 1.1763	1.1552	1.1940	Ave		1.1298				8.2					
Carbazole	0.9076 1.0709	0.8770 1.0707	0.9786 1.0809	1.0190	1.0471	Ave		1.0065				7.8					
Alachlor	++++ 0.1760	0.1388 0.1803	0.1557 0.1816	0.1605	0.1706	Ave		0.1662				9.3					
Di-n-butyl phthalate	1.0243 1.2455	1.0264 1.2415	1.1336 1.2388	1.1936	1.2542	Ave		1.1697				8.3					
Fluoranthene	1.0895 1.3754	1.1509 1.3555	1.2260 1.2955	1.3070	1.3434	Ave		1.2679				8.1					
Benzidine	++++ 0.6999	++++ 0.7115	0.6100 0.7263	0.7077	0.7044	Ave		0.6933				6.0					
Pyrene	++++ 1.1274	1.0691 1.1308	1.1106 1.0301	1.1648	1.1536	Ave		1.1124				4.3					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112246

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

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								
Famphur	++++ 0.4132	++++ 0.3775	0.4450 0.3526	0.4727	0.4348	Ave		0.4160				10.7					
Butyl benzyl phthalate	0.3480 0.5009	0.4089 0.5089	0.4305 0.5274	0.4846	0.4891	Ave		0.4623				13.2					
Bis(2-ethylhexyl) phthalate	0.4358 0.6033	0.5285 0.6030	0.5755 0.6009	0.6163	0.6063	Ave		0.5712				10.7					
3,3'-Dichlorobenzidine	++++ 0.4097	0.3729 0.4044	0.3868 0.4060	0.4031	0.4026	Ave		0.3979				3.3					
Benzo[a]anthracene	1.0696 1.1259	1.0950 1.1153	1.1260 1.0899	1.1392	1.1324	Ave		1.1117				2.2					
Chrysene	1.0527 1.0680	1.0523 1.0771	1.0350 1.0188	1.0556	1.0538	Ave		1.0517				1.7					
Di-n-octyl phthalate	0.6013 0.9945	0.7775 0.9794	0.9107 0.9649	0.9995	0.9917	Lin2	0.0415	0.9967						0.9990			
Benzo[b]fluoranthene	1.1303 1.2687	1.0662 1.2857	1.1174 1.3475	1.3348	1.2322	Ave		1.2229				8.7					
Benzo[k]fluoranthene	1.0238 1.4215	1.1371 1.5332	1.1920 1.5541	1.2133	1.4174	Ave		1.3116				14.9					
Benzo[a]pyrene	0.9092 1.1837	0.9630 1.2359	1.0164 1.2825	1.1476	1.1677	Ave		1.1133				12.1					
Dibenz(a,h)anthracene	0.8534 1.1701	0.8529 1.2262	0.9192 1.3019	1.0617	1.1139	Qua	0.0467	0.9403	-0.028					0.9999			
Indeno[1,2,3-cd]pyrene	0.9644 1.2230	1.0020 1.2194	1.0702 1.2317	1.1762	1.1844	Ave		1.1339				9.4					
Benzo[g,h,i]perylene	0.8966 1.0666	0.9278 1.0668	0.9378 1.1027	1.0246	1.0474	Ave		1.0088				7.6					
2-Fluorophenol (Surr)	++++ 1.3049	1.2767 1.2908	1.2422 1.3134	1.2694	1.2991	Ave		1.2852				1.9					
Phenol-d5 (Surr)	++++ 1.6928	1.5099 1.6859	1.5554 1.7273	1.6005	1.6382	Ave		1.6300				4.8					
Nitrobenzene-d5 (Surr)	++++ 0.5272	0.4679 0.5216	0.4922 0.5202	0.5058	0.5118	Ave		0.5067				4.1					
2-Fluorobiphenyl	++++ 1.4135	1.3034 1.4827	1.2729 1.4635	1.3498	1.3990	Ave		1.3836				5.7					
2,4,6-Tribromophenol (Surr)	0.1718 0.2707	0.1895 0.2924	0.2148 0.3079	0.2389	0.2529	Qua	0.0872	4.0943	-0.389					0.9998			
Terphenyl-d14 (Surr)	++++ 0.8212	0.7691 0.8202	0.7821 0.8353	0.8187	0.8079	Ave		0.8078				2.9					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112247

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26451/9	D7266.D
Level 2	IC 280-26451/8	D7265.D
Level 3	IC 280-26451/7	D7264.D
Level 4	IC 280-26451/6	D7263.D
Level 5	ICIS 280-26451/5	D7262.D
Level 6	IC 280-26451/4	D7261.D
Level 7	IC 280-26451/3	D7260.D
Level 8	IC 280-26451/2	D7259.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
1,4-Dioxane	DCB	Ave	13845 391879	35763 526012	72078 635986	162466	285155	4.00 120	10.0 160	20.0 200	50.0	80.0
N-Nitrosodimethylamine	DCB	Ave	++++ 629793	50720 845156	102669 1011296	258978	460666	++++ 120	10.0 160	20.0 200	50.0	80.0
Pyridine	DCB	Ave	++++ 1085297	83306 1420059	173028 1746107	448181	763638	++++ 120	10.0 160	20.0 200	50.0	80.0
Phenol	DCB	Ave	++++ 1333113	99842 1817738	201897 2249946	527301	911078	++++ 120	10.0 160	20.0 200	50.0	80.0
Aniline	DCB	Ave	++++ 1626383	123445 2191115	248476 2651069	655955	1133473	++++ 120	10.0 160	20.0 200	50.0	80.0
Methyl styrene	DCB	Ave	++++ 1144294	83056 1590096	170418 1937916	450448	786927	++++ 120	10.0 160	20.0 200	50.0	80.0
Bis(2-chloroethyl)ether	DCB	Ave	++++ 1071091	82091 1458091	158493 1823743	421114	744077	++++ 120	10.0 160	20.0 200	50.0	80.0
n-Decane	DCB	Ave	++++ 792406	58921 1118905	117057 1378185	301941	541094	++++ 120	10.0 160	20.0 200	50.0	80.0
2-Chlorophenol	DCB	Ave	++++ 1127766	81865 1524281	158575 1884041	428908	765219	++++ 120	10.0 160	20.0 200	50.0	80.0
1,3-Dichlorobenzene	DCB	Ave	38442 1248819	98719 1737698	195674 2123118	506325	883199	4.00 120	10.0 160	20.0 200	50.0	80.0
1,4-Dichlorobenzene	DCB	Ave	38988 1307540	101968 1761533	196210 2207484	524578	901285	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzyl alcohol	DCB	Ave	++++ 657148	44598 908238	90852 1080297	257046	449025	++++ 120	10.0 160	20.0 200	50.0	80.0
1,2-Dichlorobenzene	DCB	Ave	35334 1248285	94710 1692598	181966 2124273	488029	867631	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Methylphenol	DCB	Ave	++++ 986037	71521 1338151	145107 1649027	400526	669691	++++ 120	10.0 160	20.0 200	50.0	80.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	++++ 790320	63879 1069622	121816 1330629	323290	549721	++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112248

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
Indene	DCB	Ave	++++ 1627121	117985 2196262	237127 2744864	633844	1124493	++++ 120	10.0 160	20.0 200	50.0	80.0
3 & 4 Methylphenol	DCB	Ave	++++ 1094795	74356 1499511	154459 1838083	420420	731967	++++ 120	10.0 160	20.0 200	50.0	80.0
3-Methylphenol	DCB	Ave	++++ 1094795	74356 1499511	154459 1838083	420420	731967	++++ 120	10.0 160	20.0 200	50.0	80.0
4-Methylphenol	DCB	Ave	++++ 1094795	74356 1499511	154459 1838083	420420	731967	++++ 120	10.0 160	20.0 200	50.0	80.0
N-Nitrosodi-n-propylamine	DCB	Ave	++++ 910621	62882 1259272	130401 1580422	350921	624593	++++ 120	10.0 160	20.0 200	50.0	80.0
Acetophenone	DCB	Ave	++++ 1520597	114411 2096673	233260 2624579	607690	1048473	++++ 120	10.0 160	20.0 200	50.0	80.0
Hexachloroethane	DCB	Ave	18439 583357	43356 813432	92885 996004	229174	402790	4.00 120	10.0 160	20.0 200	50.0	80.0
Nitrobenzene	NPT	Ave	++++ 1389529	100405 1855744	215962 2277836	550625	951818	++++ 120	10.0 160	20.0 200	50.0	80.0
Isophorone	NPT	Ave	++++ 2172776	156877 2947715	322722 3599127	879525	1513099	++++ 120	10.0 160	20.0 200	50.0	80.0
2-Nitrophenol	NPT	Ave	++++ 606827	38854 829786	88545 1029104	236451	422899	++++ 120	10.0 160	20.0 200	50.0	80.0
2,4-Dimethylphenol	NPT	Ave	++++ 1176922	84991 1648033	173060 2035223	467324	827475	++++ 120	10.0 160	20.0 200	50.0	80.0
Benzoic acid	NPT	Lin2	++++ 622006	27641 838946	65522 1051337	225185	397746	++++ 120	10.0 160	20.0 200	50.0	80.0
Bis (2-chloroethoxy)methane	NPT	Ave	++++ 1250600	90062 1692777	187519 2103236	489254	843717	++++ 120	10.0 160	20.0 200	50.0	80.0
2,4-Dichlorophenol	NPT	Ave	++++ 970908	66401 1326121	148321 1683168	385850	689969	++++ 120	10.0 160	20.0 200	50.0	80.0
1,2,4-Trichlorobenzene	NPT	Ave	35705 1378853	97704 1903167	188537 2394447	511652	918743	4.00 120	10.0 160	20.0 200	50.0	80.0
Naphthalene	NPT	Ave	96803 3083405	230633 4183707	467648 5191901	1238471	2125422	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Chloroaniline	NPT	Ave	++++ 1347821	93122 1817426	202871 2287683	553441	938233	++++ 120	10.0 160	20.0 200	50.0	80.0
Hexachlorobutadiene	NPT	Ave	++++ 878347	65001 1201655	130363 1496035	338045	594518	++++ 120	10.0 160	20.0 200	50.0	80.0
Caprolactam	NPT	Ave	++++ 299053	18752 409561	44142 499873	118420	215699	++++ 120	10.0 160	20.0 200	50.0	80.0
4-Chloro-3-methylphenol	NPT	Ave	++++ 991999	65482 1315660	137098 1642819	386700	662210	++++ 120	10.0 160	20.0 200	50.0	80.0
2-Methylnaphthalene	NPT	Ave	58499 2151222	146546 2976894	312665 3769407	848608	1490752	4.00 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112249

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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-Methylnaphthalene	NPT	Ave	62516 2078137	149855 2867754	305296 3685340	806341	1426065	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4-Dinitrophenol	ANT	Lin1	++++ 371044	8816 526451	32256 684912	117651	241496	++++ 120	10.0 160	20.0 200	50.0	80.0
Hexachlorocyclopentadiene	ANT	Ave	++++ 1087151	68516 1513896	139808 1943974	407025	737582	++++ 120	10.0 160	20.0 200	50.0	80.0
2,4,6-Trichlorophenol	ANT	Ave	++++ 919923	58722 1284065	124979 1658090	336950	629279	++++ 120	10.0 160	20.0 200	50.0	80.0
2,3-Dichlorobenzenamine	ANT	Ave	++++ 1294012	93930 1821200	184412 2276818	503164	882434	++++ 120	10.0 160	20.0 200	50.0	80.0
2,4,5-Trichlorophenol	ANT	Ave	++++ 922716	58828 1276198	125710 1608920	337397	629917	++++ 120	10.0 160	20.0 200	50.0	80.0
2-Chloronaphthalene	ANT	Ave	61612 2248742	162677 3128252	325354 3943808	883068	1550029	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Nitroaniline	ANT	Ave	++++ 707539	44557 962199	98437 1180420	273505	484809	++++ 120	10.0 160	20.0 200	50.0	80.0
Dimethyl phthalate	ANT	Ave	75117 2781007	208393 3764382	413484 4712771	1089231	1910512	4.00 120	10.0 160	20.0 200	50.0	80.0
2,6-Dinitrotoluene	ANT	Ave	++++ 619226	44247 852053	90254 1054104	247605	434154	++++ 120	10.0 160	20.0 180	50.0	80.0
Acenaphthylene	ANT	Ave	97012 3683278	260244 5117012	533039 6432193	1439462	2499273	4.00 120	10.0 160	20.0 200	50.0	80.0
3-Nitroaniline	ANT	Ave	++++ 604989	46005 830890	87221 1035902	241961	429422	++++ 120	10.0 160	20.0 200	50.0	80.0
Acenaphthene	ANT	Ave	59959 2279787	153714 3161398	318165 4056334	869952	1538610	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Nitrophenol	ANT	Ave	++++ 578701	32727 799273	75358 963057	225666	397837	++++ 120	10.0 160	20.0 200	50.0	80.0
2,4-Dinitrotoluene	ANT	Ave	++++ 824771	51420 1185093	113696 1496122	312480	566619	++++ 120	10.0 160	20.0 200	50.0	80.0
Dibenzofuran	ANT	Ave	91439 3398294	234955 4750647	492183 6045565	1322785	2353988	4.00 120	10.0 160	20.0 200	50.0	80.0
Hexadecane	ANT	Ave	++++ 987788	68640 1361134	143116 1746832	387209	672334	++++ 120	10.0 160	20.0 200	50.0	80.0
Diethyl phthalate	ANT	Ave	69341 2641938	192749 3650842	387290 4564839	1033758	1829491	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Chlorophenyl phenyl ether	ANT	Ave	++++ 1516519	98964 2136125	214592 2743374	576422	1033609	++++ 120	10.0 160	20.0 200	50.0	80.0
Fluorene	ANT	Ave	70965 2801739	198016 3912470	397420 4985676	1072346	1921702	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Nitroaniline	ANT	Ave	++++ 625019	40190 876822	84492 1099917	242042	434765	++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112250

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
4,6-Dinitro-2-methylphenol	PHN	Lin2	++++ 601061	++++ 819031	64875 1069465	215176	402681	++++ 120	++++ 160	20.0 200	50.0	80.0
N-Nitrosodiphenylamine	PHN	Ave	++++ 2401352	164744 3376944	352952 4313217	925560	1652066	++++ 120	10.0 160	20.0 200	50.0	80.0
1,2-Diphenylhydrazine	ANT	Ave	87671 3339150	247346 4472841	505550 5545629	1334772	2336649	4.04 121	10.1 162	20.2 202	50.5	80.9
Azobenzene	ANT	Ave	87671 3339150	247346 4472841	505550 5545629	1334772	2336649	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4,6 - Tribromophenol	ANT	Qua	15269 775825	43728 1118220	101827 1481905	283055	513510	6.00 180	15.0 240	30.0 300	75.0	120
4-Bromophenyl phenyl ether	PHN	Ave	++++ 933589	66459 1339223	135484 1751562	360666	658627	++++ 120	10.0 160	20.0 200	50.0	80.0
Hexachlorobenzene	PHN	Ave	++++ 998449	67897 1396701	140448 1826350	375593	671997	++++ 120	10.0 160	20.0 200	50.0	80.0
Atrazine	PHN	Ave	++++ 863523	58150 1206766	127776 1542526	346734	602850	++++ 120	10.0 160	20.0 200	50.0	80.0
Pentachlorophenol	PHN	Ave	++++ 615927	++++ 856080	71384 1118414	222484	415505	++++ 120	++++ 160	20.0 200	50.0	80.0
Phenanthrene	PHN	Ave	118229 4191524	295241 5769845	614602 7068326	1654614	2880367	4.00 120	10.0 160	20.0 200	50.0	80.0
Anthracene	PHN	Ave	111270 4317799	290332 5901026	613063 7064548	1668740	2970666	4.00 120	10.0 160	20.0 200	50.0	80.0
Carbazole	PHN	Ave	100653 3777466	257771 5215551	552274 6491355	1471942	2605208	4.00 120	10.0 160	20.0 200	50.0	80.0
Alachlor	PHN	Ave	++++ 620714	40803 878418	87864 1090654	231837	424402	++++ 120	10.0 160	20.0 200	50.0	80.0
Di-n-butyl phthalate	PHN	Ave	113597 4393209	301687 6047451	639748 7440168	1724144	3120498	4.00 120	10.0 160	20.0 200	50.0	80.0
Fluoranthene	PHN	Ave	120829 4851294	338270 6602540	691896 7780331	1887936	3342457	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzidine	CRY	Ave	++++ 3186072	++++ 4477777	411788 5847656	1230691	2211939	++++ 120	++++ 160	20.0 200	50.0	80.0
Pyrene	CRY	Ave	++++ 5132434	365684 7117097	749661 8293589	2025724	3622580	++++ 120	10.0 160	20.0 200	50.0	80.0
Famphur	CRY	Ave	++++ 1881186	++++ 2376012	300353 2839310	822020	1365348	++++ 120	++++ 160	20.0 200	50.0	80.0
Butyl benzyl phthalate	CRY	Ave	45437 2280137	139849 3202634	290577 4246612	842803	1535968	4.00 120	10.0 160	20.0 200	50.0	80.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	56904 2746640	180762 3795260	388502 4838099	1071747	1903760	4.00 120	10.0 160	20.0 200	50.0	80.0
3,3'-Dichlorobenzidine	CRY	Ave	++++ 1864938	127538 2545393	261066 3268723	700974	1264360	++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112251

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26451

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 08:35 Calibration End Date: 08/10/2010 11:10 Calibration ID: 2483

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			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
Benzo[a]anthracene	CRY	Ave	139660 5125357	374551 7019544	760055 8775494	1981127	3555966	4.00 120	10.0 160	20.0 200	50.0	80.0
Chrysene	CRY	Ave	137454 4862055	359940 6778597	698623 8202838	1835873	3308990	4.00 120	10.0 160	20.0 200	50.0	80.0
Di-n-octyl phthalate	CRY	Lin2	78522 4527251	265939 6163711	614730 7769141	1738196	3113972	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[b]fluoranthene	PRY	Ave	139694 5007452	340342 6765491	707983 8674661	2109246	3370395	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[k]fluoranthene	PRY	Ave	126533 5610573	362968 8067823	755245 10004368	1917212	3877077	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[a]pyrene	PRY	Ave	112376 4671909	307411 6503327	643990 8256231	1813518	3194067	4.00 120	10.0 160	20.0 200	50.0	80.0
Dibenz(a,h)anthracene	PRY	Qua	105481 4617978	272265 6452335	582419 8381128	1677774	3046711	4.00 120	10.0 160	20.0 200	50.0	80.0
Indeno[1,2,3-cd]pyrene	CRY	Ave	125928 5567649	342742 7674714	722393 9917211	2045574	3719240	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[g,h,i]perylene	PRY	Ave	110814 4209695	296158 5613449	594160 7098349	1619030	2864987	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Fluorophenol (Surr)	DCB	Ave	++++ 1511008	119205 2051052	225621 2507887	608343	1074444	++++ 180	15.0 240	30.0 300	75.0	120
Phenol-d5 (Surr)	DCB	Ave	++++ 1960174	140973 2678732	282522 3298317	767008	1354895	++++ 180	15.0 240	30.0 300	75.0	120
Nitrobenzene-d5 (Surr)	NPT	Ave	++++ 1416359	101590 1902841	214292 2295854	561884	975140	++++ 120	10.0 160	20.0 200	50.0	80.0
2-Fluorobiphenyl	ANT	Ave	++++ 2700933	200465 3780601	402202 4696440	1066171	1893713	++++ 120	10.0 160	20.0 200	50.0	80.0
2,4,6-Tribromophenol (Surr)	ANT	Qua	15269 775825	43728 1118220	101827 1481905	283055	513510	6.00 180	15.0 240	30.0 300	75.0	120
Terphenyl-d14 (Surr)	CRY	Ave	++++ 3738519	263077 5162097	527942 6725096	1423891	2536968	++++ 120	10.0 160	20.0 200	50.0	80.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112252

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26452/8	D7276.D
Level 2	IC 280-26452/7	D7275.D
Level 3	IC 280-26452/6	D7274.D
Level 4	ICIS 280-26452/5	D7273.D
Level 5	IC 280-26452/4	D7272.D
Level 6	IC 280-26452/3	D7271.D
Level 7	IC 280-26452/2	D7270.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 4	LVL 5		B	M1	M2								
2-Picoline	1.3767 1.5009	1.3836 1.4826	1.4312	1.3603	1.4695	Ave		1.4292				4.0					
N-Nitrosomethylethylamine	0.5845 0.6349	0.6046 0.6021	0.5940	0.5684	0.6135	Ave		0.6003				3.5					
Methyl methanesulfonate	0.7546 0.7599	0.7914 0.7180	0.8018	0.7534	0.7928	Ave		0.7674				3.9					
N-Nitrosodiethylamine	0.5628 0.6582	0.5706 0.6502	0.6205	0.5757	0.6323	Ave		0.6100				6.5					
Ethyl methanesulfonate	1.0748 1.1951	1.0196 1.1876	1.1277	1.0654	1.1607	Ave		1.1187				6.0					
Pentachloroethane	++++ 0.6147	0.5337 0.6100	0.5651	0.5360	0.5746	Ave		0.5724				6.1					
N-Nitrosopyrrolidine	0.5584 0.8240	0.6725 0.8374	0.6858	0.6806	0.7432	Ave		0.7146				13.5					
N-Nitrosomorpholine	0.2543 0.3068	0.2464 0.3112	0.2699	0.2613	0.2851	Ave		0.2764				9.2					
2-Toluidine	1.9451 2.3385	1.9841 2.3368	2.0737	2.0271	2.1819	Ave		2.1268				7.6					
N-Nitrosopiperidine	0.1624 0.1824	0.1681 0.1877	0.1804	0.1731	0.1824	Ave		0.1766				5.1					
o,o',o''-Triethylphosphorothioate	++++ 0.2507	0.2317 0.2574	0.2447	0.2326	0.2396	Ave		0.2428				4.2					
alpha,alpha-Dimethyl phenethylamine	++++ 0.6580	0.6160 0.6844	0.6624	0.6449	0.6744	Ave		0.6567				3.7					
2,6-Dichlorophenol	0.3079 0.3643	0.3180 0.3738	0.3324	0.3319	0.3508	Ave		0.3399				7.1					
Hexachloropropene	++++ 0.4360	0.3649 0.4420	0.4197	0.4073	0.4267	Ave		0.4161				6.7					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112253

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

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 4	LVL 5		B	M1	M2								
N-Nitrosodi-n-butylamine	0.2286 0.2903	0.2554 0.2973	0.2803	0.2681	0.2849	Ave		0.2721				8.7					
p-Phenylene diamine	++++ 0.4456	0.4587 0.4437	0.5063	0.4572	0.4720	Ave		0.4639				5.0					
Safrole, Total	++++ 0.3505	0.3015 0.3560	0.3230	0.3177	0.3373	Ave		0.3310				6.3					
1,2,4,5-Tetrachlorobenzene	0.4507 0.5149	0.4656 0.5303	0.4955	0.4776	0.4987	Ave		0.4905				5.7					
Isosafrole Peak 1	0.4149 0.4509	0.4368 0.4623	0.4511	0.4404	0.4602	Ave		0.4452				3.7					
Isosafrole Peak 2	0.2985 0.3500	0.3145 0.3620	0.3398	0.3342	0.3550	Ave		0.3363				6.8					
1,1'-Biphenyl	1.2771 1.4413	1.3303 1.5091	1.3533	1.3689	1.4729	Ave		1.3933				6.0					
1-Chloronaphthalene	++++ 1.1781	1.0410 1.2290	1.0990	1.0963	1.1803	Ave		1.1373				6.1					
1,4-Naphthoquinone	0.3014 0.2879	0.3172 0.2810	0.3659	0.3275	0.3496	Ave		0.3186				9.9					
1,4-Dinitrobenzene	0.1495 0.1911	0.1511 0.1981	0.1762	0.1801	0.1950	Ave		0.1773				11.3					
1,3-Dinitrobenzene	0.1860 0.2180	0.1880 0.2277	0.2117	0.2071	0.2257	Ave		0.2092				8.0					
Pentachlorobenzene	0.5564 0.6687	0.5757 0.7095	0.5913	0.5984	0.6479	Ave		0.6211				8.9					
1-Naphthylamine	1.0640 1.3007	1.0913 1.3826	1.1500	1.1649	1.2729	Ave		1.2038				9.8					
2,3,4,6-Tetrachlorophenol	++++ 0.4557	0.3307 0.4646	0.3791	0.4053	0.4341	Ave		0.4115				12.3					
2-Naphthylamine	1.1003 1.2222	1.0656 1.2748	1.1331	1.1294	1.2136	Ave		1.1627				6.5					
Thionazin	++++ 0.3403	0.3062 0.3600	0.3153	0.3220	0.3371	Ave		0.3301				5.9					
N-Nitro-o-toluidine	++++ 0.3942	0.3290 0.4100	0.3633	0.3616	0.3895	Ave		0.3746				7.8					
Diphenylamine	1.1036 1.2853	1.1076 1.3762	1.1317	1.1600	1.2608	Ave		1.2036				8.7					
Sulfotepp	++++ 0.1726	0.1440 0.1707	0.1577	0.1563	0.1610	Ave		0.1604				6.5					
Diallate Peak 1	0.2801 0.3587	0.3005 0.3547	0.3211	0.3306	0.3379	Ave		0.3262				8.7					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112254

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

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 4	LVL 5		B	M1	M2								
1,3,5-Trinitrobenzene	++++ 0.1121	0.0634 0.1095	0.0836	0.0945	0.0989	Lin2	0.2303	0.1114							0.9954		
Phorate	++++ 0.1441	0.1122 0.1468	0.1253	0.1333	0.1341	Ave		0.1326				9.6					
Phenacetin	++++ 0.3929	0.3256 0.3997	0.3628	0.3744	0.3933	Ave		0.3748				7.4					
Diallate Peak 2	0.1453 0.1529	0.1434 0.1475	0.1565	0.1591	0.1586	Ave		0.1519				4.3					
Dimethoate	++++ 0.1828	0.1901 0.1721	0.2129	0.2032	0.2003	Ave		0.1936				7.7					
4-Aminobiphenyl	++++ 1.1042	0.8101 1.1206	0.9114	0.9473	1.0183	Ave		0.9853				12.1					
Pentachloronitrobenzene	++++ 0.2187	0.1371 0.2190	0.1649	0.1756	0.1973	Lin2	0.2035	0.2162							0.9920		
Pronamide	0.3435 0.5001	0.3513 0.5066	0.4042	0.4259	0.4595	Lin2	0.0857	0.4768							0.9911		
Disulfoton	++++ 0.3697	0.2826 0.3726	0.3156	0.3214	0.3408	Ave		0.3338				10.3					
Dinoseb	++++ 0.2721	0.1626 0.2758	0.2087	0.2229	0.2461	Lin2	0.2191	0.2728							0.9940		
Methyl parathion	++++ 0.1952	0.1945 0.1837	0.2107	0.2083	0.2071	Ave		0.1999				5.3					
Ethyl Parathion	++++ 0.1670	0.1274 0.1679	0.1547	0.1570	0.1599	Ave		0.1556				9.5					
4-Nitroquinoline-1-oxide	++++ 0.1218	0.0881 0.1187	0.1116	0.1190	0.1228	Ave		0.1137				11.6					
Methapyrilene	0.2995 0.2140	0.3054	0.3002	0.2733	0.2521	Ave		0.2741				13.1					
Isodrin	0.1514 0.1575	0.1365 0.1596	0.1430	0.1436	0.1524	Ave		0.1491				5.6					
Aramite Peak 1	++++ 0.0906	0.0761 0.0910	0.0864	0.0883	0.0855	Ave		0.0863				6.3					
Aramite Peak 2	++++ 0.1607	0.1354 0.1622	0.1586	0.1494	0.1594	Ave		0.1543				6.7					
p-Dimethylamino azobenzene	++++ 0.3120	0.2400 0.3130	0.2668	0.2729	0.2911	Ave		0.2826				10.0					
Ethyl 4,4'-Dichlorobenzilate	0.2813 0.3768	0.2975 0.3800	0.3227	0.3221	0.3464	Ave		0.3324				11.3					
3,3'-Dimethylbenzidine	++++ 0.7065	0.6403 0.7135	0.6580	0.6597	0.6795	Ave		0.6763				4.3					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

00112255

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

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 4	LVL 5		B	M1	M2								
2-Acetylaminofluorene	+++++ 0.4939	0.3403 0.4950	0.4168	0.4269	0.4566	Ave		0.4382				13.2					
7,12-Dimethylbenz(a)anthracene	+++++ 0.6434	0.4996 0.6504	0.5558	0.5436	0.5996	Ave		0.5821				10.2					
3-Methylcholanthrene	+++++ 0.6890	0.5224 0.7110	0.5930	0.5930	0.6470	Ave		0.6259				11.2					
Dibenz[a,j]acridine	0.7255 0.9102	0.7118 0.9207	0.8198	0.8050	0.8679	Ave		0.8230				10.1					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112256

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-26452/8	D7276.D
Level 2	IC 280-26452/7	D7275.D
Level 3	IC 280-26452/6	D7274.D
Level 4	ICIS 280-26452/5	D7273.D
Level 5	IC 280-26452/4	D7272.D
Level 6	IC 280-26452/3	D7271.D
Level 7	IC 280-26452/2	D7270.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Picoline	DCB	Ave	94607 1651046	177392 1678145	472922	718783	1039570	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosomethylethylamine	DCB	Ave	40171 698420	77513 681457	196274	300344	433985	10.0 160	20.0 200	50.0	80.0	120
Methyl methanesulfonate	DCB	Ave	51857 835972	101465 812730	264953	398113	560830	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosodiethylamine	DCB	Ave	38675 724033	73156 735974	205022	304190	447279	10.0 160	20.0 200	50.0	80.0	120
Ethyl methanesulfonate	DCB	Ave	73861 1314701	130731 1344258	372632	562956	821116	10.0 160	20.0 200	50.0	80.0	120
Pentachloroethane	DCB	Ave	++++ 676198	68430 690501	186717	283237	406503	++++ 160	20.0 200	50.0	80.0	120
N-Nitrosopyrrolidine	DCB	Ave	38374 906396	86224 947897	226622	359633	525727	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosomorpholine	DCB	Ave	17476 337529	31595 352211	89190	138053	201655	10.0 160	20.0 200	50.0	80.0	120
2-Toluidine	DCB	Ave	133671 2572440	254397 2645029	685245	1071161	1543528	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosopiperidine	NPT	Ave	38098 743039	76041 768929	206446	308284	458423	10.0 160	20.0 200	50.0	80.0	120
o,o',o''-Triethylphosphorothioate	NPT	Ave	++++ 1021153	104814 1054316	280032	414228	602314	++++ 160	20.0 200	50.0	80.0	120
alpha,alpha-Dimethyl phenethylamine	NPT	Ave	++++ 2679968	278691 2803065	758053	1148181	1695229	++++ 160	20.0 200	50.0	80.0	120
2,6-Dichlorophenol	NPT	Ave	72237 1483600	143850 1531060	380396	590868	881913	10.0 160	20.0 200	50.0	80.0	120
Hexachloropropene	NPT	Ave	++++ 1775684	165106 1810248	480353	725284	1072660	++++ 160	20.0 200	50.0	80.0	120
N-Nitrosodi-n-butylamine	NPT	Ave	53631 1182201	115561 1217560	320855	477346	716194	10.0 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112257

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
p-Phenylene diamine	NPT	Ave	++++ 1814882	207530 1817427	579457	814017	1186563	++++ 160	20.0 200	50.0	80.0	120
Safrole, Total	NPT	Ave	++++ 1427383	136421 1458298	369705	565720	847898	++++ 160	20.0 200	50.0	80.0	120
1,2,4,5-Tetrachlorobenzene	NPT	Ave	105745 2096894	210630 2171990	567072	850380	1253647	10.0 160	20.0 200	50.0	80.0	120
Isosafrole Peak 1	ANT	Ave	11344 229690	23658 235134	64885	96228	140462	1.75 28.0	3.50 35.0	8.75	14.0	21.0
Isosafrole Peak 2	ANT	Ave	38474 840438	80298 867972	230431	344315	510754	8.25 132	16.5 165	41.3	66.0	99.0
1,1'-Biphenyl	ANT	Ave	199523 4194985	411732 4386138	1112353	1709241	2568816	10.0 160	20.0 200	50.0	80.0	120
1-Chloronaphthalene	ANT	Ave	++++ 3429079	322182 3572060	903331	1368940	2058384	++++ 160	20.0 200	50.0	80.0	120
1,4-Naphthoquinone	ANT	Ave	47088 837884	98185 816655	300715	408942	609710	10.0 160	20.0 200	50.0	80.0	120
1,4-Dinitrobenzene	ANT	Ave	23351 556198	46775 575681	144838	224926	340068	10.0 160	20.0 200	50.0	80.0	120
1,3-Dinitrobenzene	ANT	Ave	29051 634601	58174 661756	174047	258537	393615	10.0 160	20.0 200	50.0	80.0	120
Pentachlorobenzene	ANT	Ave	86926 1946238	178167 2061976	486006	747143	1129866	10.0 160	20.0 200	50.0	80.0	120
1-Naphthylamine	ANT	Ave	166228 3785906	337754 4018377	945246	1454548	2220032	10.0 160	20.0 200	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Ave	++++ 1326314	102336 1350181	311592	506035	757009	++++ 160	20.0 200	50.0	80.0	120
2-Naphthylamine	ANT	Ave	171898 3557426	329809 3705024	931383	1410218	2116542	10.0 160	20.0 200	50.0	80.0	120
Thionazin	ANT	Ave	++++ 990361	94762 1046238	259179	402015	587959	++++ 160	20.0 200	50.0	80.0	120
N-Nitro-o-toluidine	ANT	Ave	++++ 1147489	101822 1191544	298589	451532	679355	++++ 160	20.0 200	50.0	80.0	120
Diphenylamine	ANT	Ave	172414 3740981	342800 3999782	930199	1448417	2198794	10.0 160	20.0 200	50.0	80.0	120
Sulfotepp	PHN	Ave	++++ 902807	84259 948822	234015	350744	524570	++++ 160	20.0 200	50.0	80.0	120
Diallate Peak 1	PHN	Ave	58026 1351109	126594 1419831	343183	536205	792672	7.20 115	14.4 144	36.0	57.8	86.4
1,3,5-Trinitrobenzene	PHN	Lin2	++++ 586518	37101 608886	124122	212161	322143	++++ 160	20.0 200	50.0	80.0	120
Phorate	PHN	Ave	++++ 753878	65678 816177	185991	299286	436845	++++ 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112258

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Phenacetin	PHN	Ave	++++ 2055478	190541 2222533	538429	840530	1281554	++++ 160	20.0 200	50.0	80.0	120
Diallate Peak 2	PHN	Ave	11704 224013	23497 229561	65033	100877	144665	2.80 44.8	5.60 56.0	14.0	22.6	33.6
Dimethoate	PHN	Ave	++++ 956077	111219 956831	315931	456149	652852	++++ 160	20.0 200	50.0	80.0	120
4-Aminobiphenyl	PHN	Ave	++++ 5775897	474002 6230558	1352707	2126524	3318311	++++ 160	20.0 200	50.0	80.0	120
Pentachloronitrobenzene	PHN	Lin2	++++ 1144041	80226 1217668	244700	394213	643049	++++ 160	20.0 200	50.0	80.0	120
Pronamide	PHN	Lin2	98850 2615912	205547 2816521	599960	955930	1497374	10.0 160	20.0 200	50.0	80.0	120
Disulfoton	PHN	Ave	++++ 1933998	165361 2071638	468376	721386	1110541	++++ 160	20.0 200	50.0	80.0	120
Dinoseb	PHN	Lin2	++++ 1423264	95141 1533400	309773	500286	802005	++++ 160	20.0 200	50.0	80.0	120
Methyl parathion	PHN	Ave	++++ 1020883	113785 1021187	312725	467595	674808	++++ 160	20.0 200	50.0	80.0	120
Ethyl Parathion	PHN	Ave	++++ 873331	74523 933603	229628	352374	520992	++++ 160	20.0 200	50.0	80.0	120
4-Nitroquinoline-1-oxide	PHN	Ave	++++ 637260	51544 660018	165640	267034	400249	++++ 160	20.0 200	50.0	80.0	120
Methapyrilene	PHN	Ave	86187 1119595	178714	445606	613577	821338	10.0 160	20.0	50.0	80.0	120
Isodrin	PHN	Ave	43555 823916	79857 887359	212302	322335	496560	10.0 160	20.0 200	50.0	80.0	120
Aramite Peak 1	CRY	Ave	++++ 250728	23936 264160	68641	105246	149100	++++ 73.6	9.20 91.0	23.0	36.0	55.2
Aramite Peak 2	CRY	Ave	++++ 522319	49993 563955	147884	213854	326292	++++ 86.4	10.8 109	27.0	43.2	64.8
p-Dimethylamino azobenzene	CRY	Ave	++++ 1877801	164062 1996917	460843	723276	1103303	++++ 160	20.0 200	50.0	80.0	120
Ethyl 4,4'-Dichlorobenzilate	CRY	Ave	98453 2267525	203388 2424395	557394	853502	1313209	10.0 160	20.0 200	50.0	80.0	120
3,3'-Dimethylbenzidine	CRY	Ave	++++ 4251714	437678 4552500	1136559	1748258	2575777	++++ 160	20.0 200	50.0	80.0	120
2-Acetylaminofluorene	CRY	Ave	++++ 2972376	232604 3158673	719865	1131215	1730825	++++ 160	20.0 200	50.0	80.0	120
7,12-Dimethylbenz(a)anthracene	PRY	Ave	++++ 3679070	319655 3924271	910364	1371291	2108047	++++ 160	20.0 200	50.0	80.0	120
3-Methylcholanthrene	PRY	Ave	++++ 3939811	334255 4289948	971335	1495984	2274895	++++ 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112259

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 26452

SDG No.: _____

Instrument ID: MSS_D GC Column: Vf-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/10/2010 13:19 Calibration End Date: 08/10/2010 15:22 Calibration ID: 2484

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dibenz[a,j]acridine	PRY	Ave	237228 5204662	455442 5555612	1342804	2030771	3051365	10.0 160	20.0 200	50.0	80.0	120

Curve Type Legend:

Ave = Average ISTD

Lin2 = Linear 1/conc^2 ISTD

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-29057/9 Calibration Date: 08/28/2010 09:59

Instrument ID: MSS_B Calib Start Date: 08/28/2010 07:46

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 09:40

Lab File ID: B9893.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosopyrrolidine	Ave	0.7120	0.6932		97.4	100	-2.6	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1694	0.1711		101	100	1.0	35.0
2,6-Dichlorophenol	Ave	0.2672	0.2642		98.9	100	-1.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3197	0.3256		102	100	1.9	35.0
1,1'-Biphenyl	Ave	1.392	1.357		97.5	100	-2.5	35.0
2,3,4,6-Tetrachlorophenol	Ave	0.3313	0.3174		95.8	100	-4.2	35.0
Thionazin	Ave	0.2791	0.2876		103	100	3.0	35.0
Sulfotepp	Ave	0.1100	0.1003		91.2	100	-8.8	35.0
Dimethoate	Ave	0.2303	0.2455		107	100	6.6	35.0
Disulfoton	Ave	0.3488	0.3123		89.5	100	-10.5	35.0
Methyl parathion	Ave	0.1980	0.2324		117	100	17.4	35.0
Ethyl Parathion	Ave	0.1313	0.1379		105	100	5.1	35.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-29075/10 Calibration Date: 08/28/2010 13:22

Instrument ID: MSS_B Calib Start Date: 08/28/2010 10:39

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 13:01

Lab File ID: B9903.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6459	0.6424		79.6	80.0	-0.5	35.0
N-Nitrosodimethylamine	Ave	0.9822	0.9565		77.9	80.0	-2.6	20.0
Pyridine	Ave	1.713	1.700		79.4	80.0	-0.7	35.0
Phenol	Ave	1.789	1.783		79.7	80.0	-0.3	20.0
Aniline	Ave	2.340	2.144		73.3	80.0	-8.4	35.0
Bis(2-chloroethyl)ether	Ave	1.376	1.331		77.4	80.0	-3.2	20.0
2-Chlorophenol	Ave	1.435	1.433		79.9	80.0	-0.2	20.0
1,3-Dichlorobenzene	Ave	1.618	1.562		77.3	80.0	-3.4	20.0
1,4-Dichlorobenzene	Ave	1.644	1.594		77.6	80.0	-3.0	20.0
Benzyl alcohol	Ave	0.9563	0.9736		81.4	80.0	1.8	20.0
1,2-Dichlorobenzene	Ave	1.537	1.519		79.1	80.0	-1.2	20.0
2-Methylphenol	Ave	1.366	1.377		80.6	80.0	0.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.677	1.626		77.5	80.0	-3.1	20.0
4-Methylphenol	Ave	1.419	1.411		79.6	80.0	-0.5	35.0
N-Nitrosodi-n-propylamine	Ave	1.003	1.010	0.0500	80.6	80.0	0.7	20.0
Acetophenone	Ave	1.955	1.915		78.4	80.0	-2.0	35.0
Hexachloroethane	Ave	0.6306	0.6185		78.5	80.0	-1.9	20.0
Nitrobenzene	Ave	0.3792	0.3732		78.7	80.0	-1.6	20.0
Isophorone	Ave	0.6622	0.6552		79.2	80.0	-1.0	20.0
2,4-Dimethylphenol	Ave	0.3326	0.3366		81.0	80.0	1.2	20.0
2-Nitrophenol	Ave	0.1592	0.1658		83.3	80.0	4.1	20.0
Benzoic acid	Ave	0.1897	0.1884		79.5	80.0	-0.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.4204	0.4132		78.6	80.0	-1.7	20.0
2,4-Dichlorophenol	Ave	0.2791	0.2816		80.7	80.0	0.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3412	0.3080		72.2	80.0	-9.7	20.0
Naphthalene	Ave	1.029	0.999		77.6	80.0	-3.0	20.0
4-Chloroaniline	Ave	0.4422	0.4337		78.5	80.0	-1.9	20.0
Hexachlorobutadiene	Ave	0.1896	0.1847		77.9	80.0	-2.6	20.0
Caprolactam	Ave	0.1270	0.1303		82.0	80.0	2.6	35.0
4-Chloro-3-methylphenol	Ave	0.2879	0.3004		83.5	80.0	4.3	20.0
2-Methylnaphthalene	Ave	0.6861	0.6777		79.0	80.0	-1.2	20.0
Hexachlorocyclopentadiene	Ave	0.3314	0.3445		83.2	80.0	4.0	35.0
2,4,6-Trichlorophenol	Ave	0.3223	0.3425		85.0	80.0	6.3	20.0
2,4,5-Trichlorophenol	Ave	0.3617	0.3802		84.1	80.0	5.1	20.0
2-Chloronaphthalene	Ave	1.066	1.049		78.7	80.0	-1.6	20.0
2-Nitroaniline	Ave	0.3002	0.3218		85.8	80.0	7.2	20.0
Dimethyl phthalate	Ave	1.188	1.163		78.3	80.0	-2.1	20.0
2,6-Dinitrotoluene	Ave	0.2896	0.2738		75.6	80.0	-5.5	20.0
Acenaphthylene	Ave	1.734	1.739		80.2	80.0	0.3	20.0
3-Nitroaniline	Ave	0.3374	0.3457		82.0	80.0	2.5	20.0
Acenaphthene	Ave	1.083	1.059		78.2	80.0	-2.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-29075/10 Calibration Date: 08/28/2010 13:22

Instrument ID: MSS_B Calib Start Date: 08/28/2010 10:39

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 13:01

Lab File ID: B9903.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-Dinitrophenol	Lin2	0.1351	0.1163	0.0500	67.2	80.0	-16.0	20.0
4-Nitrophenol	Ave	0.1758	0.1765	0.0500	80.3	80.0	0.4	20.0
2,4-Dinitrotoluene	Ave	0.3560	0.3765		84.6	80.0	5.7	20.0
Dibenzofuran	Ave	1.574	1.548		78.7	80.0	-1.6	20.0
Diethyl phthalate	Ave	1.182	1.149		77.8	80.0	-2.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6227	0.5935		76.2	80.0	-4.7	20.0
Fluorene	Ave	1.286	1.273		79.2	80.0	-1.0	20.0
4-Nitroaniline	Ave	0.3413	0.3541		83.0	80.0	3.8	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1121	0.1054		75.3	80.0	-5.9	20.0
N-Nitrosodiphenylamine	Ave	0.6324	0.6055		65.4	68.3	-4.2	20.0
1,2-Diphenylhydrazine	Ave	1.313	1.301		80.1	80.9	-0.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.2190		77.6	80.0	-3.0	20.0
Hexachlorobenzene	Ave	0.2454	0.2406		78.4	80.0	-2.0	20.0
Atrazine	Ave	0.1901	0.1727		72.7	80.0	-9.2	35.0
Pentachlorophenol	Ave	0.1399	0.1425		81.5	80.0	1.8	20.0
Phenanthrene	Qua	1.071	1.044		79.0	80.0	-1.2	20.0
Anthracene	Ave	1.058	1.050		79.3	80.0	-0.8	20.0
Carbazole	Ave	1.017	0.9883		77.8	80.0	-2.8	20.0
Di-n-butyl phthalate	Ave	1.089	1.125		82.6	80.0	3.3	20.0
Fluoranthene	Ave	1.125	1.170		83.2	80.0	4.0	20.0
Pyrene	Ave	1.097	1.050		76.5	80.0	-4.3	20.0
Butyl benzyl phthalate	Ave	0.4375	0.4448		81.3	80.0	1.7	20.0
Bis(2-ethylhexyl) phthalate	Lin2	0.5463	0.5949		77.0	80.0	-3.7	20.0
Benzo[a]anthracene	Ave	1.066	1.035		77.7	80.0	-2.9	20.0
Chrysene	Ave	1.078	1.039		77.0	80.0	-3.7	20.0
Di-n-octyl phthalate	Lin2	0.9544	0.9689		75.2	80.0	-6.0	20.0
Benzo[b]fluoranthene	Ave	1.077	1.019		75.7	80.0	-5.4	20.0
Benzo[k]fluoranthene	Ave	1.206	1.287		85.4	80.0	6.8	20.0
Benzo[a]pyrene	Ave	1.017	1.006		79.1	80.0	-1.1	20.0
Dibenz(a,h)anthracene	Ave	0.9593	0.995		83.0	80.0	3.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.167	1.183		81.1	80.0	1.3	20.0
Benzo[g,h,i]perylene	Ave	1.035	1.055		81.6	80.0	2.0	20.0
2-Fluorophenol (Surr)	Ave	1.399	1.401		120	120	0.1	35.0
Phenol-d5 (Surr)	Ave	1.695	1.687		119	120	-0.5	35.0
Nitrobenzene-d5 (Surr)	Ave	0.3839	0.3750		78.2	80.0	-2.3	35.0
2-Fluorobiphenyl	Ave	1.205	1.209		80.3	80.0	0.3	35.0
2,4,6-Tribromophenol (Surr)	Ave	0.2041	0.2095		123	120	2.6	35.0
Terphenyl-d14 (Surr)	Ave	0.7500	0.7132		76.1	80.0	-4.9	35.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: ICV 280-29075/11 Calibration Date: 08/28/2010 13:42
Instrument ID: MSS_B Calib Start Date: 08/28/2010 10:39
GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 13:01
Lab File ID: B9904.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzidine	Ave	0.6295	0.5862		93.1	100	-6.9	20.0
3,3'-Dichlorobenzidine	Ave	0.3916	0.3479		88.8	100	-11.2	20.0

FORM VII

GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-29378/2 Calibration Date: 08/28/2010 15:15

Instrument ID: MSS_B Calib Start Date: 08/28/2010 10:39

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 13:01

Lab File ID: B9886.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6459	0.6421		79.5	80.0	-0.6	35.0
N-Nitrosodimethylamine	Ave	0.9822	0.9790		79.7	80.0	-0.3	20.0
Pyridine	Ave	1.713	1.714		80.1	80.0	0.1	35.0
Phenol	Ave	1.789	1.855		82.9	80.0	3.7	20.0
Aniline	Ave	2.340	2.444		83.5	80.0	4.4	35.0
Bis(2-chloroethyl)ether	Ave	1.376	1.382		80.4	80.0	0.5	20.0
2-Chlorophenol	Ave	1.435	1.518		84.6	80.0	5.8	20.0
1,3-Dichlorobenzene	Ave	1.618	1.696		83.9	80.0	4.9	20.0
1,4-Dichlorobenzene	Ave	1.644	1.698		82.6	80.0	3.3	20.0
Benzyl alcohol	Ave	0.9563	1.002		83.9	80.0	4.8	20.0
1,2-Dichlorobenzene	Ave	1.537	1.605		83.5	80.0	4.4	20.0
2-Methylphenol	Ave	1.366	1.419		83.1	80.0	3.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.677	1.688		80.5	80.0	0.6	20.0
3 & 4 Methylphenol	Ave	1.419	1.504		84.8	80.0	6.0	20.0
4-Methylphenol	Ave	1.419	1.504		84.8	80.0	6.0	35.0
N-Nitrosodi-n-propylamine	Ave	1.003	1.065	0.0500	85.0	80.0	6.2	20.0
Acetophenone	Ave	1.955	2.063		84.5	80.0	5.6	35.0
Hexachloroethane	Ave	0.6306	0.6577		83.4	80.0	4.3	20.0
Nitrobenzene	Ave	0.3792	0.3788		79.9	80.0	-0.1	20.0
Isophorone	Ave	0.6622	0.6820		82.4	80.0	3.0	20.0
2,4-Dimethylphenol	Ave	0.3326	0.3507		84.4	80.0	5.4	20.0
2-Nitrophenol	Ave	0.1592	0.1735		87.2	80.0	9.0	20.0
Benzoic acid	Ave	0.1897	0.1690		71.3	80.0	-10.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.4204	0.4321		82.2	80.0	2.8	20.0
2,4-Dichlorophenol	Ave	0.2791	0.2889		82.8	80.0	3.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3412	0.3471		81.4	80.0	1.7	20.0
Naphthalene	Ave	1.029	1.051		81.7	80.0	2.1	20.0
4-Chloroaniline	Ave	0.4422	0.4661		84.3	80.0	5.4	20.0
Hexachlorobutadiene	Ave	0.1896	0.1915		80.8	80.0	1.0	20.0
Caprolactam	Ave	0.1270	0.1297		81.7	80.0	2.1	35.0
4-Chloro-3-methylphenol	Ave	0.2879	0.3107		86.3	80.0	7.9	20.0
2-Methylnaphthalene	Ave	0.6861	0.7162		83.5	80.0	4.4	20.0
Hexachlorocyclopentadiene	Ave	0.3314	0.3533		85.3	80.0	6.6	35.0
2,4,6-Trichlorophenol	Ave	0.3223	0.3567		88.5	80.0	10.7	20.0
2,4,5-Trichlorophenol	Ave	0.3617	0.3858		85.3	80.0	6.7	20.0
2-Chloronaphthalene	Ave	1.066	1.098		82.4	80.0	3.0	20.0
2-Nitroaniline	Ave	0.3002	0.3230		86.1	80.0	7.6	20.0
Dimethyl phthalate	Ave	1.188	1.223		82.4	80.0	3.0	20.0
2,6-Dinitrotoluene	Ave	0.2896	0.3069		84.8	80.0	5.9	20.0
Acenaphthylene	Ave	1.734	1.822		84.1	80.0	5.1	20.0
3-Nitroaniline	Ave	0.3374	0.3630		86.1	80.0	7.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-29378/2 Calibration Date: 08/28/2010 15:15

Instrument ID: MSS_B Calib Start Date: 08/28/2010 10:39

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 13:01

Lab File ID: B9886.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthene	Ave	1.083	1.120		82.7	80.0	3.4	20.0
2,4-Dinitrophenol	Lin2	0.1351	0.1207	0.0500	69.4	80.0	-13.3	20.0
4-Nitrophenol	Ave	0.1758	0.1814	0.0500	82.5	80.0	3.2	20.0
2,4-Dinitrotoluene	Ave	0.3560	0.3941		88.6	80.0	10.7	20.0
Dibenzofuran	Ave	1.574	1.622		82.4	80.0	3.0	20.0
Diethyl phthalate	Ave	1.182	1.220		82.6	80.0	3.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.6227	0.6380		82.0	80.0	2.4	20.0
Fluorene	Ave	1.286	1.336		83.1	80.0	3.9	20.0
4-Nitroaniline	Ave	0.3413	0.3645		85.4	80.0	6.8	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1121	0.1122		80.1	80.0	0.1	20.0
N-Nitrosodiphenylamine	Ave	0.6324	0.6656		84.2	80.0	5.2	20.0
1,2-Diphenylhydrazine	Ave	1.313	1.366		84.1	80.9	4.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2258	0.2366		83.8	80.0	4.7	20.0
Hexachlorobenzene	Ave	0.2454	0.2521		82.2	80.0	2.7	20.0
Atrazine	Ave	0.1901	0.2058		86.6	80.0	8.2	35.0
Pentachlorophenol	Ave	0.1399	0.1413		80.8	80.0	1.0	20.0
Phenanthrene	Qua	1.071	1.116		86.0	80.0	7.5	20.0
Anthracene	Ave	1.058	1.126		85.1	80.0	6.4	20.0
Carbazole	Ave	1.017	1.079		84.9	80.0	6.2	20.0
Di-n-butyl phthalate	Ave	1.089	1.209		88.8	80.0	11.0	20.0
Fluoranthene	Ave	1.125	1.208		85.9	80.0	7.4	20.0
Benzidine	Ave	0.6295	0.6671		84.8	80.0	6.0	20.0
Pyrene	Ave	1.097	1.125		82.0	80.0	2.6	20.0
Famphur	Qua	0.3174	0.3586		82.8	80.0	3.5	35.0
Butyl benzyl phthalate	Ave	0.4375	0.4773		87.3	80.0	9.1	20.0
Bis(2-ethylhexyl) phthalate	Lin2	0.5463	0.6387		82.5	80.0	3.1	20.0
3,3'-Dichlorobenzidine	Ave	0.3916	0.4149		84.7	80.0	5.9	20.0
Benzo[a]anthracene	Ave	1.066	1.116		83.7	80.0	4.6	20.0
Chrysene	Ave	1.078	1.111		82.4	80.0	3.0	20.0
Di-n-octyl phthalate	Lin2	0.9544	1.041		80.5	80.0	0.6	20.0
Benzo[b]fluoranthene	Ave	1.077	1.080		80.2	80.0	0.3	20.0
Benzo[k]fluoranthene	Ave	1.206	1.364		90.5	80.0	13.1	20.0
Benzo[a]pyrene	Ave	1.017	1.128		88.8	80.0	11.0	20.0
Dibenz(a,h)anthracene	Ave	0.9593	1.050		87.5	80.0	9.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.167	1.261		86.5	80.0	8.1	20.0
Benzo[g,h,i]perylene	Ave	1.035	1.132		87.5	80.0	9.4	20.0
2-Fluorophenol (Surr)	Ave	1.399	1.454		125	120	3.9	20.0
Phenol-d5 (Surr)	Ave	1.695	1.760		125	120	3.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3839	0.3860		80.4	80.0	0.6	20.0
2-Fluorobiphenyl	Ave	1.205	1.258		83.6	80.0	4.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2041	0.2226		131	120	9.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-29378/2 Calibration Date: 08/28/2010 15:15
Instrument ID: MSS_B Calib Start Date: 08/28/2010 10:39
GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 13:01
Lab File ID: B9886.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14 (Surr)	Ave	0.7500	0.7783		83.0	80.0	3.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-29378/3 Calibration Date: 08/28/2010 15:35

Instrument ID: MSS_B Calib Start Date: 08/28/2010 07:46

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/28/2010 09:40

Lab File ID: B9887.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosopyrrolidine	Ave	0.7120	0.7284		81.8	80.0	2.3	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1694	0.1723		81.3	80.0	1.7	35.0
2,6-Dichlorophenol	Ave	0.2672	0.2751		82.4	80.0	3.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3197	0.3217		80.5	80.0	0.6	35.0
1,1'-Biphenyl	Ave	1.392	1.417		81.4	80.0	1.8	35.0
2,3,4,6-Tetrachlorophenol	Ave	0.3313	0.3400		82.1	80.0	2.6	35.0
Thionazin	Ave	0.2791	0.2846		81.6	80.0	2.0	35.0
Sulfotepp	Ave	0.1100	0.1149		83.6	80.0	4.5	35.0
Phorate	Ave	0.1327	0.1395		84.1	80.0	5.1	35.0
Dimethoate	Ave	0.2303	0.2412		83.8	80.0	4.7	35.0
Disulfoton	Ave	0.3488	0.3619		83.0	80.0	3.7	35.0
Methyl parathion	Ave	0.1980	0.2141		86.5	80.0	8.2	35.0
Ethyl Parathion	Ave	0.1313	0.1433		87.3	80.0	9.1	35.0

FORM VII

GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-26451/10 Calibration Date: 08/10/2010 11:28

Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10

Lab File ID: D7267.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5324	0.5594		84.1	80.0	5.1	35.0
N-Nitrosodimethylamine	Ave	0.8167	0.8282		81.1	80.0	1.4	20.0
Pyridine	Ave	1.382	1.448		83.8	80.0	4.8	35.0
Phenol	Ave	1.684	1.730		82.2	80.0	2.7	20.0
Aniline	Ave	2.057	1.851		72.0	80.0	-10.1	35.0
Bis(2-chloroethyl)ether	Ave	1.356	1.383		81.6	80.0	2.0	20.0
2-Chlorophenol	Ave	1.391	1.412		81.2	80.0	1.5	20.0
1,3-Dichlorobenzene	Ave	1.609	1.615		80.3	80.0	0.4	20.0
1,4-Dichlorobenzene	Ave	1.650	1.674		81.1	80.0	1.4	20.0
Benzyl alcohol	Ave	0.8061	0.8271		82.1	80.0	2.6	20.0
1,2-Dichlorobenzene	Ave	1.555	1.559		80.2	80.0	0.3	20.0
2-Methylphenol	Ave	1.236	1.219		78.9	80.0	-1.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.017	1.043		0.00100	80.0	2.5	20.0
4-Methylphenol	Ave	1.342	1.375		82.0	80.0	2.5	35.0
N-Nitrosodi-n-propylamine	Ave	1.133	1.130	0.0500	79.8	80.0	-0.2	20.0
Acetophenone	Ave	1.940	1.940		80.0	80.0	0.0	35.0
Hexachloroethane	Ave	0.7454	0.7391		79.3	80.0	-0.8	20.0
Nitrobenzene	Ave	0.4994	0.5000		80.1	80.0	0.1	20.0
Isophorone	Ave	0.7831	0.7672		78.4	80.0	-2.0	20.0
2-Nitrophenol	Ave	0.2148	0.2087		77.7	80.0	-2.9	20.0
2,4-Dimethylphenol	Ave	0.4278	0.4252		79.5	80.0	-0.6	20.0
Benzoic acid	Lin2	0.1984	0.2234		81.7	80.0	2.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.4478	0.4290		76.6	80.0	-4.2	20.0
2,4-Dichlorophenol	Ave	0.3518	0.3527		80.2	80.0	0.3	20.0
1,2,4-Trichlorobenzene	Ave	0.4770	0.4306		72.2	80.0	-9.7	20.0
Naphthalene	Ave	1.119	1.101		78.7	80.0	-1.6	20.0
4-Chloroaniline	Ave	0.4862	0.4533		74.6	80.0	-6.8	20.0
Hexachlorobutadiene	Ave	0.3158	0.3015		76.4	80.0	-4.5	20.0
Caprolactam	Ave	0.1063	0.1120		84.3	80.0	5.3	35.0
4-Chloro-3-methylphenol	Ave	0.3449	0.3478		80.7	80.0	0.8	20.0
2-Methylnaphthalene	Ave	0.7607	0.7623		80.2	80.0	0.2	20.0
Hexachlorocyclopentadiene	Ave	0.5310	0.5278		79.5	80.0	-0.6	35.0
2,4,6-Trichlorophenol	Ave	0.4529	0.4540		80.2	80.0	0.2	20.0
2,4,5-Trichlorophenol	Ave	0.4511	0.4445		78.8	80.0	-1.5	20.0
2-Chloronaphthalene	Ave	1.128	1.130		80.1	80.0	0.1	20.0
2-Nitroaniline	Ave	0.3459	0.3684		85.2	80.0	6.5	20.0
Dimethyl phthalate	Ave	1.390	1.369		78.8	80.0	-1.5	20.0
2,6-Dinitrotoluene	Ave	0.3187	0.2959		74.3	80.0	-7.2	20.0
Acenaphthylene	Ave	1.828	1.850		81.0	80.0	1.2	20.0
3-Nitroaniline	Ave	0.3091	0.3250		84.1	80.0	5.1	20.0
Acenaphthene	Ave	1.119	1.107		79.1	80.0	-1.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-26451/10 Calibration Date: 08/10/2010 11:28

Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10

Lab File ID: D7267.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-Dinitrophenol	Lin1	0.1573	0.1730	0.0500	73.6	80.0	-8.0	20.0
4-Nitrophenol	Ave	0.2782	0.2973	0.0500	85.5	80.0	6.9	20.0
2,4-Dinitrotoluene	Ave	0.4101	0.4074		79.5	80.0	-0.7	20.0
Dibenzofuran	Ave	1.696	1.709		80.6	80.0	0.8	20.0
Diethyl phthalate	Ave	1.318	1.326		80.5	80.0	0.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.7575	0.7385		78.0	80.0	-2.5	20.0
Fluorene	Ave	1.384	1.402		81.0	80.0	1.3	20.0
4-Nitroaniline	Ave	0.3100	0.3128		80.7	80.0	0.9	20.0
4,6-Dinitro-2-methylphenol	Lin2	0.1571	0.1516		74.9	80.0	-6.4	20.0
N-Nitrosodiphenylamine	Ave	0.6547	0.6108		63.7	68.3	-6.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2588	0.2440		75.4	80.0	-5.7	20.0
Hexachlorobenzene	Ave	0.2691	0.2639		78.5	80.0	-1.9	20.0
Atrazine	Ave	0.2366	0.1916		64.8	80.0	-19.0	35.0
Pentachlorophenol	Ave	0.1640	0.1686		82.3	80.0	2.8	20.0
Phenanthrene	Ave	1.127	1.115		79.2	80.0	-1.1	20.0
Anthracene	Ave	1.130	1.145		81.1	80.0	1.4	20.0
Carbazole	Ave	1.006	0.999		79.4	80.0	-0.8	20.0
Di-n-butyl phthalate	Ave	1.170	1.200		82.0	80.0	2.6	20.0
Fluoranthene	Ave	1.268	1.360		85.8	80.0	7.3	20.0
Pyrene	Ave	1.112	1.115		80.2	80.0	0.2	20.0
Butyl benzyl phthalate	Ave	0.4623	0.4386		75.9	80.0	-5.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5712	0.6030		84.5	80.0	5.6	20.0
Benzo[a]anthracene	Ave	1.112	1.094		78.7	80.0	-1.6	20.0
Chrysene	Ave	1.052	1.068		81.2	80.0	1.5	20.0
Di-n-octyl phthalate	Lin2	0.9024	0.9600		78.7	80.0	-1.6	20.0
Benzo[b]fluoranthene	Ave	1.223	1.213		79.3	80.0	-0.8	20.0
Benzo[k]fluoranthene	Ave	1.312	1.399		85.4	80.0	6.7	20.0
Benzo[a]pyrene	Ave	1.113	1.093		78.6	80.0	-1.8	20.0
Dibenz(a,h)anthracene	Qua	1.062	1.087		78.4	80.0	-2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.134	1.168		82.4	80.0	3.0	20.0
Benzo[g,h,i]perylene	Ave	1.009	1.024		81.2	80.0	1.5	20.0
2-Fluorophenol (Surr)	Ave	1.285	1.340		125	120	4.3	35.0
Phenol-d5 (Surr)	Ave	1.630	1.674		123	120	2.7	35.0
Nitrobenzene-d5 (Surr)	Ave	0.5067	0.5074		80.1	80.0	0.1	35.0
2-Fluorobiphenyl	Ave	1.384	1.377		79.6	80.0	-0.5	20.0
2,4,6-Tribromophenol (Surr)	Qua	0.2424	0.2510		118	120	-1.7	35.0
Terphenyl-d14 (Surr)	Ave	0.8078	0.7831		77.6	80.0	-3.1	35.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: ICV 280-26451/11 Calibration Date: 08/10/2010 11:47
Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35
GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10
Lab File ID: D7268.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzidine	Ave	0.6933	0.6886		99.3	100	-0.7	20.0
3,3'-Dichlorobenzidine	Ave	0.3979	0.3955		99.4	100	-0.6	20.0

FORM VII

GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-26452/9 Calibration Date: 08/10/2010 15:41

Instrument ID: MSS_D Calib Start Date: 08/10/2010 13:19

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 15:22

Lab File ID: D7277.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosopyrrolidine	Ave	0.7146	0.7054		98.7	100	-1.3	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.2428	0.2443		101	100	0.6	35.0
2,6-Dichlorophenol	Ave	0.3399	0.3896		115	100	14.6	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4905	0.5197		106	100	6.0	35.0
1,1'-Biphenyl	Ave	1.393	1.437		103	100	3.1	35.0
2,3,4,6-Tetrachlorophenol	Ave	0.4115	0.4170		101	100	1.3	35.0
Thionazin	Ave	0.3301	0.3351		102	100	1.5	35.0
Sulfotepp	Ave	0.1604	0.1419		88.5	100	-11.5	35.0
Dimethoate	Ave	0.1936	0.2235		115	100	15.4	35.0
Disulfoton	Ave	0.3338	0.3010		90.2	100	-9.8	35.0
Methyl parathion	Ave	0.1999	0.2131		107	100	6.6	35.0
Ethyl Parathion	Ave	0.1556	0.1468		94.3	100	-5.7	35.0

FORM VII

GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27640/2 Calibration Date: 08/17/2010 13:10

Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10

Lab File ID: D7563.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5324	0.5556		83.5	80.0	4.4	35.0
N-Nitrosodimethylamine	Ave	0.8167	0.8818		86.4	80.0	8.0	20.0
Pyridine	Ave	1.382	1.485		85.9	80.0	7.4	35.0
Phenol	Ave	1.684	1.792		85.2	80.0	6.4	20.0
Aniline	Ave	2.057	2.191		85.2	80.0	6.5	35.0
Bis(2-chloroethyl)ether	Ave	1.356	1.387		81.8	80.0	2.3	20.0
2-Chlorophenol	Ave	1.391	1.493		85.9	80.0	7.4	20.0
1,3-Dichlorobenzene	Ave	1.609	1.661		82.6	80.0	3.3	20.0
1,4-Dichlorobenzene	Ave	1.650	1.680		81.4	80.0	1.8	20.0
Benzyl alcohol	Ave	0.8061	0.9638		95.6	80.0	19.6	20.0
1,2-Dichlorobenzene	Ave	1.555	1.620		83.4	80.0	4.2	20.0
2-Methylphenol	Ave	1.236	1.332		86.2	80.0	7.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.017	1.140		0.00100	80.0	12.1	20.0
3 & 4 Methylphenol	Ave	1.342	1.497		89.3	80.0	11.6	20.0
4-Methylphenol	Ave	1.342	1.497		89.3	80.0	11.6	35.0
N-Nitrosodi-n-propylamine	Ave	1.133	1.216	0.0500	85.9	80.0	7.4	20.0
Acetophenone	Ave	1.940	2.055		84.7	80.0	5.9	35.0
Hexachloroethane	Ave	0.7454	0.6917		74.2	80.0	-7.2	20.0
Nitrobenzene	Ave	0.4994	0.4714		75.5	80.0	-5.6	20.0
Isophorone	Ave	0.7831	0.7986		81.6	80.0	2.0	20.0
2-Nitrophenol	Ave	0.2148	0.2199		81.9	80.0	2.4	20.0
2,4-Dimethylphenol	Ave	0.4278	0.4292		80.3	80.0	0.3	20.0
Benzoic acid	Lin2	0.1984	0.2035		74.8	80.0	-6.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.4478	0.4573		81.7	80.0	2.1	20.0
2,4-Dichlorophenol	Ave	0.3518	0.3617		82.3	80.0	2.8	20.0
1,2,4-Trichlorobenzene	Ave	0.4770	0.4697		78.8	80.0	-1.5	20.0
Naphthalene	Ave	1.119	1.139		81.4	80.0	1.8	20.0
4-Chloroaniline	Ave	0.4862	0.5015		82.5	80.0	3.1	20.0
Hexachlorobutadiene	Ave	0.3158	0.3096		78.4	80.0	-2.0	20.0
Caprolactam	Ave	0.1063	0.1191		89.6	80.0	11.9	35.0
4-Chloro-3-methylphenol	Ave	0.3449	0.3721		86.3	80.0	7.9	20.0
2-Methylnaphthalene	Ave	0.7607	0.7984		84.0	80.0	5.0	20.0
Hexachlorocyclopentadiene	Ave	0.5310	0.5339		80.4	80.0	0.6	35.0
2,4,6-Trichlorophenol	Ave	0.4529	0.4771		84.3	80.0	5.3	20.0
2,4,5-Trichlorophenol	Ave	0.4511	0.4798		85.1	80.0	6.4	20.0
2-Chloronaphthalene	Ave	1.128	1.156		82.0	80.0	2.5	20.0
2-Nitroaniline	Ave	0.3459	0.3633		84.0	80.0	5.0	20.0
Dimethyl phthalate	Ave	1.390	1.436		82.6	80.0	3.3	20.0
2,6-Dinitrotoluene	Ave	0.3187	0.3185		80.0	80.0	0.1	20.0
Acenaphthylene	Ave	1.828	1.872		81.9	80.0	2.4	20.0
3-Nitroaniline	Ave	0.3091	0.3235		83.7	80.0	4.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27640/2 Calibration Date: 08/17/2010 13:10

Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10

Lab File ID: D7563.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthene	Ave	1.119	1.162		83.1	80.0	3.8	20.0
2,4-Dinitrophenol	Lin1	0.1573	0.2047	0.0500	85.4	80.0	6.7	20.0
4-Nitrophenol	Ave	0.2782	0.2681	0.0500	77.1	80.0	-3.6	20.0
2,4-Dinitrotoluene	Ave	0.4101	0.4280		83.5	80.0	4.3	20.0
Dibenzofuran	Ave	1.696	1.704		80.4	80.0	0.5	20.0
Diethyl phthalate	Ave	1.318	1.342		81.4	80.0	1.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.7575	0.7975		84.2	80.0	5.3	20.0
Fluorene	Ave	1.384	1.447		83.6	80.0	4.6	20.0
4-Nitroaniline	Ave	0.3100	0.3274		84.5	80.0	5.6	20.0
4,6-Dinitro-2-methylphenol	Lin2	0.1571	0.1623		79.6	80.0	-0.4	20.0
N-Nitrosodiphenylamine	Ave	0.6547	0.6650		81.3	80.0	1.6	20.0
1,2-Diphenylhydrazine	Ave	1.649	1.501		73.6	80.9	-8.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2588	0.2697		83.4	80.0	4.2	20.0
Hexachlorobenzene	Ave	0.2691	0.2898		86.1	80.0	7.7	20.0
Atrazine	Ave	0.2366	0.2356		79.7	80.0	-0.4	35.0
Pentachlorophenol	Ave	0.1640	0.1823		88.9	80.0	11.1	20.0
Phenanthrene	Ave	1.127	1.141		81.0	80.0	1.3	20.0
Anthracene	Ave	1.130	1.172		83.0	80.0	3.8	20.0
Carbazole	Ave	1.006	1.036		82.3	80.0	2.9	20.0
Di-n-butyl phthalate	Ave	1.170	1.171		80.1	80.0	0.1	20.0
Fluoranthene	Ave	1.268	1.349		85.1	80.0	6.4	20.0
Benzidine	Ave	0.6933	0.6614		76.3	80.0	-4.6	20.0
Pyrene	Ave	1.112	1.097		78.9	80.0	-1.4	20.0
Famphur	Ave	0.4160	0.4418		85.0	80.0	6.2	35.0
Butyl benzyl phthalate	Ave	0.4623	0.4258		73.7	80.0	-7.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5712	0.5647		79.1	80.0	-1.1	20.0
3,3'-Dichlorobenzidine	Ave	0.3979	0.4319		86.8	80.0	8.5	20.0
Benzo[a]anthracene	Ave	1.112	1.137		81.8	80.0	2.3	20.0
Chrysene	Ave	1.052	1.076		81.9	80.0	2.3	20.0
Di-n-octyl phthalate	Lin2	0.9024	0.9252		75.9	80.0	-5.1	20.0
Benzo[b]fluoranthene	Ave	1.223	1.315		86.1	80.0	7.6	20.0
Benzo[k]fluoranthene	Ave	1.312	1.257		76.7	80.0	-4.2	20.0
Benzo[a]pyrene	Ave	1.113	1.141		82.0	80.0	2.5	20.0
Dibenz(a,h)anthracene	Qua	1.062	1.163		83.4	80.0	4.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.134	1.299		91.6	80.0	14.5	20.0
Benzo[g,h,i]perylene	Ave	1.009	1.101		87.3	80.0	9.2	20.0
2-Fluorophenol (Surr)	Ave	1.285	1.341		125	120	4.3	20.0
Phenol-d5 (Surr)	Ave	1.630	1.770		130	120	8.6	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5067	0.4823		76.1	80.0	-4.8	20.0
2-Fluorobiphenyl	Ave	1.384	1.384		80.0	80.0	0.0	20.0
2,4,6-Tribromophenol (Surr)	Qua	0.2424	0.2964		137	120	14.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27640/2 Calibration Date: 08/17/2010 13:10
Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35
GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10
Lab File ID: D7563.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14 (Surr)	Ave	0.8078	0.8125		80.5	80.0	0.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27640/3 Calibration Date: 08/17/2010 13:28

Instrument ID: MSS_D Calib Start Date: 08/10/2010 13:19

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 15:22

Lab File ID: D7564.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosopyrrolidine	Ave	0.7146	0.6983		78.2	80.0	-2.3	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.2428	0.2364		77.9	80.0	-2.6	35.0
2,6-Dichlorophenol	Ave	0.3399	0.3408		80.2	80.0	0.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4905	0.4854		79.2	80.0	-1.0	35.0
1,1'-Biphenyl	Ave	1.393	1.352		77.7	80.0	-2.9	35.0
2,3,4,6-Tetrachlorophenol	Ave	0.4115	0.4209		81.8	80.0	2.3	35.0
Thionazin	Ave	0.3301	0.2932		71.0	80.0	-11.2	35.0
Sulfotepp	Ave	0.1604	0.1299		64.8	80.0	-19.0	35.0
Phorate	Ave	0.1326	0.1179		71.1	80.0	-11.2	35.0
Dimethoate	Ave	0.1936	0.1928		79.7	80.0	-0.4	35.0
Disulfoton	Ave	0.3338	0.2922		70.0	80.0	-12.4	35.0
Methyl parathion	Ave	0.1999	0.1865		74.6	80.0	-6.7	35.0
Ethyl Parathion	Ave	0.1556	0.1346		69.2	80.0	-13.5	35.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27824/2 Calibration Date: 08/19/2010 11:08

Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10

Lab File ID: D7607.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5324	0.5579		83.8	80.0	4.8	35.0
N-Nitrosodimethylamine	Ave	0.8167	0.8979		88.0	80.0	9.9	20.0
Pyridine	Ave	1.382	1.539		89.1	80.0	11.4	35.0
Phenol	Ave	1.684	1.797		85.4	80.0	6.8	20.0
Aniline	Ave	2.057	2.226		86.5	80.0	8.2	35.0
Bis(2-chloroethyl)ether	Ave	1.356	1.396		82.3	80.0	2.9	20.0
2-Chlorophenol	Ave	1.391	1.477		85.0	80.0	6.2	20.0
1,3-Dichlorobenzene	Ave	1.609	1.637		81.4	80.0	1.7	20.0
1,4-Dichlorobenzene	Ave	1.650	1.679		81.4	80.0	1.7	20.0
Benzyl alcohol	Ave	0.8061	0.9313		92.4	80.0	15.5	20.0
1,2-Dichlorobenzene	Ave	1.555	1.600		82.3	80.0	2.9	20.0
2-Methylphenol	Ave	1.236	1.340		86.7	80.0	8.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.017	1.157		91.0	80.0	13.7	20.0
3 & 4 Methylphenol	Ave	1.342	1.438		85.7	80.0	7.2	20.0
4-Methylphenol	Ave	1.342	1.438		85.7	80.0	7.2	35.0
N-Nitrosodi-n-propylamine	Ave	1.133	1.168	0.0500	82.5	80.0	3.1	20.0
Acetophenone	Ave	1.940	1.983		81.8	80.0	2.2	35.0
Hexachloroethane	Ave	0.7454	0.6891		74.0	80.0	-7.5	20.0
Nitrobenzene	Ave	0.4994	0.4688		75.1	80.0	-6.1	20.0
Isophorone	Ave	0.7831	0.7910		80.8	80.0	1.0	20.0
2-Nitrophenol	Ave	0.2148	0.2202		82.0	80.0	2.5	20.0
2,4-Dimethylphenol	Ave	0.4278	0.4282		80.1	80.0	0.1	20.0
Benzoic acid	Lin2	0.1984	0.2124		77.9	80.0	-2.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.4478	0.4500		80.4	80.0	0.5	20.0
2,4-Dichlorophenol	Ave	0.3518	0.3588		81.6	80.0	2.0	20.0
1,2,4-Trichlorobenzene	Ave	0.4770	0.4793		80.4	80.0	0.5	20.0
Naphthalene	Ave	1.119	1.143		81.7	80.0	2.1	20.0
4-Chloroaniline	Ave	0.4862	0.5025		82.7	80.0	3.3	20.0
Hexachlorobutadiene	Ave	0.3158	0.3160		80.0	80.0	0.1	20.0
Caprolactam	Ave	0.1063	0.1198		90.1	80.0	12.7	35.0
4-Chloro-3-methylphenol	Ave	0.3449	0.3625		84.1	80.0	5.1	20.0
2-Methylnaphthalene	Ave	0.7607	0.7938		83.5	80.0	4.3	20.0
Hexachlorocyclopentadiene	Ave	0.5310	0.5688		85.7	80.0	7.1	35.0
2,4,6-Trichlorophenol	Ave	0.4529	0.4851		85.7	80.0	7.1	20.0
2,4,5-Trichlorophenol	Ave	0.4511	0.5103		90.5	80.0	13.1	20.0
2-Chloronaphthalene	Ave	1.128	1.181		83.7	80.0	4.7	20.0
2-Nitroaniline	Ave	0.3459	0.3685		85.2	80.0	6.5	20.0
Dimethyl phthalate	Ave	1.390	1.438		82.8	80.0	3.4	20.0
2,6-Dinitrotoluene	Ave	0.3187	0.3216		80.7	80.0	0.9	20.0
Acenaphthylene	Ave	1.828	1.903		83.3	80.0	4.1	20.0
3-Nitroaniline	Ave	0.3091	0.3264		84.5	80.0	5.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27824/2 Calibration Date: 08/19/2010 11:08

Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10

Lab File ID: D7607.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthene	Ave	1.119	1.167		83.4	80.0	4.3	20.0
2,4-Dinitrophenol	Lin1	0.1573	0.2250	0.0500	92.9	80.0	16.1	20.0
4-Nitrophenol	Ave	0.2782	0.2793	0.0500	80.3	80.0	0.4	20.0
2,4-Dinitrotoluene	Ave	0.4101	0.4336		84.6	80.0	5.7	20.0
Dibenzofuran	Ave	1.696	1.736		81.9	80.0	2.4	20.0
Diethyl phthalate	Ave	1.318	1.344		81.6	80.0	2.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.7575	0.8027		84.8	80.0	6.0	20.0
Fluorene	Ave	1.384	1.443		83.4	80.0	4.2	20.0
4-Nitroaniline	Ave	0.3100	0.3317		85.6	80.0	7.0	20.0
4,6-Dinitro-2-methylphenol	Lin2	0.1571	0.1636		80.2	80.0	0.3	20.0
N-Nitrosodiphenylamine	Ave	0.6547	0.6717		82.1	80.0	2.6	20.0
1,2-Diphenylhydrazine	Ave	1.649	1.519		74.5	80.9	-7.8	20.0
4-Bromophenyl phenyl ether	Ave	0.2588	0.2713		83.8	80.0	4.8	20.0
Hexachlorobenzene	Ave	0.2691	0.2856		84.9	80.0	6.1	20.0
Atrazine	Ave	0.2366	0.2357		79.7	80.0	-0.4	35.0
Pentachlorophenol	Ave	0.1640	0.1892		92.3	80.0	15.3	20.0
Phenanthrene	Ave	1.127	1.150		81.7	80.0	2.1	20.0
Anthracene	Ave	1.130	1.163		82.4	80.0	3.0	20.0
Carbazole	Ave	1.006	1.037		82.4	80.0	3.0	20.0
Di-n-butyl phthalate	Ave	1.170	1.177		80.5	80.0	0.7	20.0
Fluoranthene	Ave	1.268	1.331		84.0	80.0	5.0	20.0
Benzidine	Ave	0.6933	0.7209		83.2	80.0	4.0	20.0
Pyrene	Ave	1.112	1.124		80.9	80.0	1.1	20.0
Famphur	Ave	0.4160	0.4210		81.0	80.0	1.2	35.0
Butyl benzyl phthalate	Ave	0.4623	0.4383		75.8	80.0	-5.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5712	0.5748		80.5	80.0	0.6	20.0
3,3'-Dichlorobenzidine	Ave	0.3979	0.4450		89.5	80.0	11.8	20.0
Benzo[a]anthracene	Ave	1.112	1.160		83.5	80.0	4.3	20.0
Chrysene	Ave	1.052	1.079		82.1	80.0	2.6	20.0
Di-n-octyl phthalate	Lin2	0.9024	0.9490		77.8	80.0	-2.7	20.0
Benzo[b]fluoranthene	Ave	1.223	1.217		79.6	80.0	-0.5	20.0
Benzo[k]fluoranthene	Ave	1.312	1.326		80.9	80.0	1.1	20.0
Benzo[a]pyrene	Ave	1.113	1.155		83.0	80.0	3.7	20.0
Dibenz(a,h)anthracene	Qua	1.062	1.198		85.6	80.0	7.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.134	1.334		94.1	80.0	17.7	20.0
Benzo[g,h,i]perylene	Ave	1.009	1.089		86.4	80.0	8.0	20.0
2-Fluorophenol (Surr)	Ave	1.285	1.351		126	120	5.1	20.0
Phenol-d5 (Surr)	Ave	1.630	1.774		131	120	8.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5067	0.4885		77.1	80.0	-3.6	20.0
2-Fluorobiphenyl	Ave	1.384	1.425		82.4	80.0	3.0	20.0
2,4,6-Tribromophenol (Surr)	Qua	0.2424	0.3048		140	120	16.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27824/2 Calibration Date: 08/19/2010 11:08
Instrument ID: MSS_D Calib Start Date: 08/10/2010 08:35
GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 11:10
Lab File ID: D7607.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14 (Surr)	Ave	0.8078	0.8306		82.3	80.0	2.8	20.0

FORM VII

GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27824/3 Calibration Date: 08/19/2010 11:27

Instrument ID: MSS_D Calib Start Date: 08/10/2010 13:19

GC Column: Vf-5MS (30.25) ID: 0.25 (mm) Calib End Date: 08/10/2010 15:22

Lab File ID: D7608.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosopyrrolidine	Ave	0.7146	0.7302		81.8	80.0	2.2	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.2428	0.2345		77.3	80.0	-3.4	35.0
2,6-Dichlorophenol	Ave	0.3399	0.3374		79.4	80.0	-0.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4905	0.4782		78.0	80.0	-2.5	35.0
1,1'-Biphenyl	Ave	1.393	1.382		79.4	80.0	-0.8	35.0
2,3,4,6-Tetrachlorophenol	Ave	0.4115	0.4227		82.2	80.0	2.7	35.0
Thionazin	Ave	0.3301	0.3081		74.6	80.0	-6.7	35.0
Sulfotepp	Ave	0.1604	0.1399		69.8	80.0	-12.8	35.0
Phorate	Ave	0.1326	0.1263		76.2	80.0	-4.8	35.0
Dimethoate	Ave	0.1936	0.1908		78.9	80.0	-1.4	35.0
Disulfoton	Ave	0.3338	0.3170		76.0	80.0	-5.0	35.0
Methyl parathion	Ave	0.1999	0.1790		71.7	80.0	-10.4	35.0
Ethyl Parathion	Ave	0.1556	0.1446		74.3	80.0	-7.1	35.0

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-25954/1-A

Matrix: Water Lab File ID: D7617.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1000(mL) Date Analyzed: 08/19/2010 14:04

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	1.0	U	10	0.28
208-96-8	Acenaphthylene	1.0	U	10	0.49
120-12-7	Anthracene	1.0	U	10	0.42
92-87-5	Benzidine	100	U	200	50
56-55-3	Benzo[a]anthracene	1.0	U	10	0.35
65-85-0	Benzoic acid	50	U	80	10
205-99-2	Benzo[b]fluoranthene	1.0	U	10	0.53
207-08-9	Benzo[k]fluoranthene	1.0	U	10	0.46
100-51-6	Benzyl alcohol	1.0	U	25	0.23
111-91-1	Bis(2-chloroethoxy)methane	4.0	U	10	0.97
111-44-4	Bis(2-chloroethyl)ether	1.0	U	20	0.41
101-55-3	4-Bromophenyl phenyl ether	1.0	U	10	0.43
85-68-7	Butyl benzyl phthalate	4.0	U	20	1.0
105-67-9	2,4-Dimethylphenol	4.0	U	10	0.58
131-11-3	Dimethyl phthalate	1.0	U	20	0.21
534-52-1	4,6-Dinitro-2-methylphenol	10	U	80	4.0
51-28-5	2,4-Dinitrophenol	20	U	80	10
121-14-2	2,4-Dinitrotoluene	4.0	U	20	1.7
606-20-2	2,6-Dinitrotoluene	4.0	U	20	1.9
206-44-0	Fluoranthene	1.0	U	20	0.20
86-73-7	Fluorene	1.0	U	10	0.31
122-66-7	1,2-Diphenylhydrazine	1.0	U	10	0.23
118-74-1	Hexachlorobenzene	1.0	U	10	0.66
87-68-3	Hexachlorobutadiene	10	U	30	3.3
67-72-1	Hexachloroethane	1.0	U	10	2.1
86-30-6	N-Nitrosodiphenylamine	1.0	U	10	0.44
621-64-7	N-Nitrosodi-n-propylamine	1.0	U	20	0.35
106-46-7	1,4-Dichlorobenzene	1.0	U	10	0.32
91-58-7	2-Chloronaphthalene	1.0	U	10	0.26
95-57-8	2-Chlorophenol	4.0	U	10	2.0
7005-72-3	4-Chlorophenyl phenyl ether	4.0	U	10	1.7
218-01-9	Chrysene	1.0	U	10	0.54
53-70-3	Dibenz(a,h)anthracene	1.0	U	10	0.51
132-64-9	Dibenzofuran	1.0	U	10	0.29

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-25954/1-A

Matrix: Water Lab File ID: D7617.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1000(mL) Date Analyzed: 08/19/2010 14:04

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	1.0	U	10	0.50
50-32-8	Benzo[a]pyrene	1.0	U	10	0.31
84-74-2	Di-n-butyl phthalate	4.0	U	20	1.2
95-50-1	1,2-Dichlorobenzene	1.0	U	10	0.23
541-73-1	1,3-Dichlorobenzene	1.0	U	10	0.30
91-94-1	3,3'-Dichlorobenzidine	10	U	50	2.0
120-83-2	2,4-Dichlorophenol	2.0	U	10	0.64
84-66-2	Diethyl phthalate	1.0	U	20	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	1.0	U	10	0.65
78-59-1	Isophorone	1.0	U	10	0.21
91-57-6	2-Methylnaphthalene	1.0	U	10	0.29
95-48-7	2-Methylphenol	4.0	U	10	0.98
91-20-3	Naphthalene	1.0	U	10	0.29
88-74-4	2-Nitroaniline	4.0	U	50	1.7
99-09-2	3-Nitroaniline	2.0	U	50	2.0
100-01-6	4-Nitroaniline	4.0	U	50	2.0
98-95-3	Nitrobenzene	2.0	U	20	0.81
88-75-5	2-Nitrophenol	1.0	U	20	0.39
100-02-7	4-Nitrophenol	1.0	U	50	1.2
129-00-0	Pyrene	1.0	U	10	0.37
87-86-5	Pentachlorophenol	40	U	80	20
85-01-8	Phenanthrene	1.0	U	10	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	10	0.28
95-95-4	2,4,5-Trichlorophenol	1.0	U	20	0.45
88-06-2	2,4,6-Trichlorophenol	1.0	U	20	0.29
108-95-2	Phenol	1.0	U	10	2.0
86-74-8	Carbazole	1.0	U	10	0.43
62-75-9	N-Nitrosodimethylamine	1.0	U	10	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	1.0	U	10	0.56
117-84-0	Di-n-octyl phthalate	1.0	U	20	0.35
15831-10-4	3 & 4 Methylphenol	1.0	U	20	0.25
59-50-7	4-Chloro-3-methylphenol	5.0	U	20	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	1.0	U	10	0.28
106-47-8	4-Chloroaniline	5.0	U	25	2.1

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 280-25954/1-A
 Matrix: Water Lab File ID: D7617.D
 Analysis Method: 8270C/DoD Date Collected: _____
 Extract. Method: 3520C Date Extracted: 08/07/2010 16:12
 Sample wt/vol: 1000 (mL) Date Analyzed: 08/19/2010 14:04
 Con. Extract Vol.: 1000 (uL) Dilution Factor: 1
 Injection Volume: 0.5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	4.0	U	10	1.4
930-55-2	N-Nitrosopyrrolidine	4.0	U	10	0.80

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	25	50-110	Q
367-12-4	2-Fluorophenol (Surr)	76	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	57	40-110	
1718-51-0	Terphenyl-d14 (Surr)	107	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	98	40-125	
4165-62-2	Phenol-d5 (Surr)	90	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26179/1-A

Matrix: Solid Lab File ID: D7580.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.4(g) Date Analyzed: 08/17/2010 18:19

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	17	U	330	10
208-96-8	Acenaphthylene	33	U	330	17
120-12-7	Anthracene	33	U	330	17
92-87-5	Benzidine	3900	U	3900	980
56-55-3	Benzo[a]anthracene	33	U	330	20
65-85-0	Benzoic acid	650	U	1600	330
205-99-2	Benzo[b]fluoranthene	33	U	330	26
207-08-9	Benzo[k]fluoranthene	65	U	330	39
100-51-6	Benzyl alcohol	33	U	330	9.9
111-91-1	Bis(2-chloroethoxy)methane	65	U	330	23
111-44-4	Bis(2-chloroethyl)ether	33	U	330	16
101-55-3	4-Bromophenyl phenyl ether	33	U	330	19
85-68-7	Butyl benzyl phthalate	65	U	330	42
105-67-9	2,4-Dimethylphenol	130	U	330	65
131-11-3	Dimethyl phthalate	33	U	330	23
534-52-1	4,6-Dinitro-2-methylphenol	650	U	1600	330
51-28-5	2,4-Dinitrophenol	660	U	1600	330
121-14-2	2,4-Dinitrotoluene	130	U	330	65
606-20-2	2,6-Dinitrotoluene	65	U	330	28
206-44-0	Fluoranthene	65	U	330	36
86-73-7	Fluorene	33	U	330	18
122-66-7	1,2-Diphenylhydrazine	33	U	330	22
118-74-1	Hexachlorobenzene	65	U	330	29
87-68-3	Hexachlorobutadiene	65	U	330	9.9
67-72-1	Hexachloroethane	33	U	330	21
86-30-6	N-Nitrosodiphenylamine	33	U	330	21
621-64-7	N-Nitrosodi-n-propylamine	65	U	330	31
106-46-7	1,4-Dichlorobenzene	33	U	330	13
91-58-7	2-Chloronaphthalene	33	U	330	9.9
95-57-8	2-Chlorophenol	33	U	330	21
7005-72-3	4-Chlorophenyl phenyl ether	65	U	330	21
218-01-9	Chrysene	33	U	330	27
53-70-3	Dibenz(a,h)anthracene	33	U	330	19
132-64-9	Dibenzofuran	33	U	330	20

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26179/1-A

Matrix: Solid Lab File ID: D7580.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.4(g) Date Analyzed: 08/17/2010 18:19

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	33	U	330	16
50-32-8	Benzo[a]pyrene	33	U	330	20
84-74-2	Di-n-butyl phthalate	33	U	330	29
95-50-1	1,2-Dichlorobenzene	33	U	330	22
541-73-1	1,3-Dichlorobenzene	33	U	330	12
91-94-1	3,3'-Dichlorobenzidine	330	U	1600	89
120-83-2	2,4-Dichlorophenol	65	U	330	9.9
84-66-2	Diethyl phthalate	33	U	650	26
193-39-5	Indeno[1,2,3-cd]pyrene	33	U	330	22
78-59-1	Isophorone	33	U	330	17
91-57-6	2-Methylnaphthalene	33	U	330	19
95-48-7	2-Methylphenol	33	U	330	13
91-20-3	Naphthalene	65	U	330	31
88-74-4	2-Nitroaniline	65	U	1600	49
99-09-2	3-Nitroaniline	65	U	1600	72
100-01-6	4-Nitroaniline	130	U	1600	72
98-95-3	Nitrobenzene	33	U	330	22
88-75-5	2-Nitrophenol	65	U	330	9.9
100-02-7	4-Nitrophenol	330	U	1600	96
129-00-0	Pyrene	33	U	390	12
87-86-5	Pentachlorophenol	660	U	1600	330
85-01-8	Phenanthrene	33	U	330	17
120-82-1	1,2,4-Trichlorobenzene	33	U	330	28
95-95-4	2,4,5-Trichlorophenol	130	U	330	9.9
88-06-2	2,4,6-Trichlorophenol	65	U	330	9.9
108-95-2	Phenol	33	U	330	18
86-74-8	Carbazole	33	U	330	36
62-75-9	N-Nitrosodimethylamine	65	U	510	37
117-81-7	Bis(2-ethylhexyl) phthalate	65	U	330	45
117-84-0	Di-n-octyl phthalate	65	U	330	14
15831-10-4	3 & 4 Methylphenol	65	U	330	33
59-50-7	4-Chloro-3-methylphenol	130	U	330	65
108-60-1	2,2'-oxybis[1-chloropropane]	33	U	330	23
106-47-8	4-Chloroaniline	130	U	330	81

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 280-26179/1-A
 Matrix: Solid Lab File ID: D7580.D
 Analysis Method: 8270C/DoD Date Collected: _____
 Extract. Method: 3550C Date Extracted: 08/10/2010 14:30
 Sample wt/vol: 30.4(g) Date Analyzed: 08/17/2010 18:19
 Con. Extract Vol.: 1000(uL) Dilution Factor: 1
 Injection Volume: 0.5(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	130	U	330	68
930-55-2	N-Nitrosopyrrolidine	130	U	330	63

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	71	45-105	
367-12-4	2-Fluorophenol (Surr)	75	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	69	35-100	
1718-51-0	Terphenyl-d14 (Surr)	89	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	78	35-125	
4165-62-2	Phenol-d5 (Surr)	74	40-100	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-28094/1-A

Matrix: Water Lab File ID: B9899.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1000(mL) Date Analyzed: 08/28/2010 20:11

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	1.0	U	10	0.28
208-96-8	Acenaphthylene	1.0	U	10	0.49
120-12-7	Anthracene	1.0	U	10	0.42
92-87-5	Benzidine	100	U	200	50
56-55-3	Benzo[a]anthracene	1.0	U	10	0.35
65-85-0	Benzoic acid	50	U	80	10
205-99-2	Benzo[b]fluoranthene	1.0	U	10	0.53
207-08-9	Benzo[k]fluoranthene	1.0	U	10	0.46
100-51-6	Benzyl alcohol	0.430	J	25	0.23
111-91-1	Bis(2-chloroethoxy)methane	4.0	U	10	0.97
111-44-4	Bis(2-chloroethyl) ether	1.0	U	20	0.41
101-55-3	4-Bromophenyl phenyl ether	1.0	U	10	0.43
85-68-7	Butyl benzyl phthalate	4.0	U	20	1.0
105-67-9	2,4-Dimethylphenol	4.0	U	10	0.58
131-11-3	Dimethyl phthalate	1.0	U	20	0.21
534-52-1	4,6-Dinitro-2-methylphenol	10	U	80	4.0
51-28-5	2,4-Dinitrophenol	20	U	80	10
121-14-2	2,4-Dinitrotoluene	4.0	U	20	1.7
606-20-2	2,6-Dinitrotoluene	4.0	U	20	1.9
206-44-0	Fluoranthene	1.0	U	20	0.20
86-73-7	Fluorene	1.0	U	10	0.31
122-66-7	1,2-Diphenylhydrazine	1.0	U	10	0.23
118-74-1	Hexachlorobenzene	1.0	U	10	0.66
87-68-3	Hexachlorobutadiene	10	U	30	3.3
67-72-1	Hexachloroethane	1.0	U	10	2.1
86-30-6	N-Nitrosodiphenylamine	1.0	U	10	0.44
621-64-7	N-Nitrosodi-n-propylamine	1.0	U	20	0.35
106-46-7	1,4-Dichlorobenzene	1.0	U	10	0.32
91-58-7	2-Chloronaphthalene	1.0	U	10	0.26
95-57-8	2-Chlorophenol	4.0	U	10	2.0
7005-72-3	4-Chlorophenyl phenyl ether	4.0	U	10	1.7
218-01-9	Chrysene	1.0	U	10	0.54
53-70-3	Dibenz(a,h)anthracene	1.0	U	10	0.51
132-64-9	Dibenzofuran	1.0	U	10	0.29

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-28094/1-A

Matrix: Water Lab File ID: B9899.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1000(mL) Date Analyzed: 08/28/2010 20:11

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	1.0	U	10	0.50
50-32-8	Benzo[a]pyrene	1.0	U	10	0.31
84-74-2	Di-n-butyl phthalate	4.0	U	20	1.2
95-50-1	1,2-Dichlorobenzene	1.0	U	10	0.23
541-73-1	1,3-Dichlorobenzene	1.0	U	10	0.30
91-94-1	3,3'-Dichlorobenzidine	10	U	50	2.0
120-83-2	2,4-Dichlorophenol	2.0	U	10	0.64
84-66-2	Diethyl phthalate	1.0	U	20	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	1.0	U	10	0.65
78-59-1	Isophorone	1.0	U	10	0.21
91-57-6	2-Methylnaphthalene	1.0	U	10	0.29
95-48-7	2-Methylphenol	4.0	U	10	0.98
91-20-3	Naphthalene	1.0	U	10	0.29
88-74-4	2-Nitroaniline	4.0	U	50	1.7
99-09-2	3-Nitroaniline	2.0	U	50	2.0
100-01-6	4-Nitroaniline	4.0	U	50	2.0
98-95-3	Nitrobenzene	2.0	U	20	0.81
88-75-5	2-Nitrophenol	1.0	U	20	0.39
100-02-7	4-Nitrophenol	10	U	50	1.2
129-00-0	Pyrene	1.0	U	10	0.37
87-86-5	Pentachlorophenol	40	U	80	20
85-01-8	Phenanthrene	1.27	J	10	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	10	0.28
95-95-4	2,4,5-Trichlorophenol	1.0	U	20	0.45
88-06-2	2,4,6-Trichlorophenol	1.0	U	20	0.29
108-95-2	Phenol	5.0	U	10	2.0
86-74-8	Carbazole	1.0	U	10	0.43
62-75-9	N-Nitrosodimethylamine	1.0	U	10	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	3.14	J	10	0.56
117-84-0	Di-n-octyl phthalate	4.47	J	20	0.35
15831-10-4	3 & 4 Methylphenol	1.0	U	20	0.25
59-50-7	4-Chloro-3-methylphenol	5.0	U	20	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	1.0	U	10	0.28
106-47-8	4-Chloroaniline	5.0	U	25	2.1

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 280-28094/1-A
 Matrix: Water Lab File ID: B9899.D
 Analysis Method: 8270C/DoD Date Collected: _____
 Extract. Method: 3520C Date Extracted: 08/23/2010 14:15
 Sample wt/vol: 1000 (mL) Date Analyzed: 08/28/2010 20:11
 Con. Extract Vol.: 1000 (uL) Dilution Factor: 1
 Injection Volume: 0.5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
87-65-0	2,6-Dichlorophenol	4.0	U	10	1.4
930-55-2	N-Nitrosopyrrolidine	4.0	U	10	0.80

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	64	50-110	
367-12-4	2-Fluorophenol (Surr)	85	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	85	40-110	
1718-51-0	Terphenyl-d14 (Surr)	92	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	96	40-125	
4165-62-2	Phenol-d5 (Surr)	89	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-25954/2-A

Matrix: Water Lab File ID: D7609.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1000(mL) Date Analyzed: 08/19/2010 11:46

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	34.4	Q	10	0.28
208-96-8	Acenaphthylene	34.4	Q	10	0.49
120-12-7	Anthracene	69.3		10	0.42
92-87-5	Benzidine	100	U	200	50
56-55-3	Benzo[a]anthracene	71.0		10	0.35
65-85-0	Benzoic acid	69.0	J	80	10
205-99-2	Benzo[b]fluoranthene	69.2		10	0.53
207-08-9	Benzo[k]fluoranthene	73.8		10	0.46
100-51-6	Benzyl alcohol	79.4		25	0.23
111-91-1	Bis(2-chloroethoxy)methane	64.4		10	0.97
111-44-4	Bis(2-chloroethyl)ether	60.1		20	0.41
101-55-3	4-Bromophenyl phenyl ether	58.6		10	0.43
85-68-7	Butyl benzyl phthalate	68.0		20	1.0
105-67-9	2,4-Dimethylphenol	50.7		10	0.58
131-11-3	Dimethyl phthalate	74.2		20	0.21
534-52-1	4,6-Dinitro-2-methylphenol	76.0	J	80	4.0
51-28-5	2,4-Dinitrophenol	83.2		80	10
121-14-2	2,4-Dinitrotoluene	77.5		20	1.7
606-20-2	2,6-Dinitrotoluene	69.0		20	1.9
206-44-0	Fluoranthene	76.2		20	0.20
86-73-7	Fluorene	49.1		10	0.31
122-66-7	1,2-Diphenylhydrazine	51.0		10	0.23
118-74-1	Hexachlorobenzene	70.9		10	0.66
87-68-3	Hexachlorobutadiene	25.9	J	30	3.3
67-72-1	Hexachloroethane	24.1		10	2.1
86-30-6	N-Nitrosodiphenylamine	53.9		10	0.44
621-64-7	N-Nitrosodi-n-propylamine	65.8		20	0.35
106-46-7	1,4-Dichlorobenzene	29.1		10	0.32
91-58-7	2-Chloronaphthalene	30.3	Q	10	0.26
95-57-8	2-Chlorophenol	66.7		10	2.0
7005-72-3	4-Chlorophenyl phenyl ether	47.8		10	1.7
218-01-9	Chrysene	70.1		10	0.54
53-70-3	Dibenz(a,h)anthracene	74.8		10	0.51
132-64-9	Dibenzofuran	39.9	Q	10	0.29

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-25954/2-A

Matrix: Water Lab File ID: D7609.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1000(mL) Date Analyzed: 08/19/2010 11:46

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	75.8		10	0.50
50-32-8	Benzo[a]pyrene	60.3		10	0.31
84-74-2	Di-n-butyl phthalate	73.4		20	1.2
95-50-1	1,2-Dichlorobenzene	30.2		10	0.23
541-73-1	1,3-Dichlorobenzene	29.1		10	0.30
91-94-1	3,3'-Dichlorobenzidine	42.7	J	50	2.0
120-83-2	2,4-Dichlorophenol	66.0		10	0.64
84-66-2	Diethyl phthalate	74.4		20	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	80.5		10	0.65
78-59-1	Isophorone	66.1		10	0.21
91-57-6	2-Methylnaphthalene	29.0	Q	10	0.29
95-48-7	2-Methylphenol	70.1		10	0.98
91-20-3	Naphthalene	31.9		10	0.29
88-74-4	2-Nitroaniline	77.7		50	1.7
99-09-2	3-Nitroaniline	77.9		50	2.0
100-01-6	4-Nitroaniline	75.6		50	2.0
98-95-3	Nitrobenzene	53.9		20	0.81
88-75-5	2-Nitrophenol	61.7		20	0.39
100-02-7	4-Nitrophenol	72.4		50	1.2
129-00-0	Pyrene	68.4		10	0.37
87-86-5	Pentachlorophenol	80.3		80	20
85-01-8	Phenanthrene	66.3		10	0.26
120-82-1	1,2,4-Trichlorobenzene	24.9	Q	10	0.28
95-95-4	2,4,5-Trichlorophenol	72.1		20	0.45
88-06-2	2,4,6-Trichlorophenol	63.7		20	0.29
108-95-2	Phenol	71.5		10	2.0
86-74-8	Carbazole	73.8		10	0.43
62-75-9	N-Nitrosodimethylamine	73.1		10	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	71.8		10	0.56
117-84-0	Di-n-octyl phthalate	68.9		20	0.35
15831-10-4	3 & 4 Methylphenol	145		20	0.25
59-50-7	4-Chloro-3-methylphenol	74.1		20	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	56.3		10	0.28
106-47-8	4-Chloroaniline	64.0		25	2.1

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-25954/2-A
Matrix: Water Lab File ID: D7609.D
Analysis Method: 8270C/DoD Date Collected: _____
Extract. Method: 3520C Date Extracted: 08/07/2010 16:12
Sample wt/vol: 1000(mL) Date Analyzed: 08/19/2010 11:46
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27824 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	45	50-110	Q
367-12-4	2-Fluorophenol (Surr)	76	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	57	40-110	
1718-51-0	Terphenyl-d14 (Surr)	98	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	105	40-125	
4165-62-2	Phenol-d5 (Surr)	92	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26179/3-A

Matrix: Solid Lab File ID: D7565.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 31.8(g) Date Analyzed: 08/17/2010 13:47

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	1780		310	9.7
208-96-8	Acenaphthylene	1780		310	16
120-12-7	Anthracene	1980		310	16
92-87-5	Benzidine	3700	U	3800	930
56-55-3	Benzo[a]anthracene	2030		310	19
65-85-0	Benzoic acid	924	J	1500	310
205-99-2	Benzo[b]fluoranthene	2200		310	25
207-08-9	Benzo[k]fluoranthene	1920		310	38
100-51-6	Benzyl alcohol	1930		310	9.4
111-91-1	Bis(2-chloroethoxy)methane	1670		310	22
111-44-4	Bis(2-chloroethyl)ether	1590		310	16
101-55-3	4-Bromophenyl phenyl ether	1980		310	18
85-68-7	Butyl benzyl phthalate	1840		310	41
105-67-9	2,4-Dimethylphenol	1540		310	62
131-11-3	Dimethyl phthalate	2020		310	22
534-52-1	4,6-Dinitro-2-methylphenol	1180	J	1500	310
51-28-5	2,4-Dinitrophenol	746	J	1500	310
121-14-2	2,4-Dinitrotoluene	2160		310	62
606-20-2	2,6-Dinitrotoluene	1920		310	26
206-44-0	Fluoranthene	2170		310	34
86-73-7	Fluorene	1880		310	17
122-66-7	1,2-Diphenylhydrazine	1780		310	21
118-74-1	Hexachlorobenzene	2120		310	27
87-68-3	Hexachlorobutadiene	1570		310	9.4
67-72-1	Hexachloroethane	1420		310	20
86-30-6	N-Nitrosodiphenylamine	1620		310	20
621-64-7	N-Nitrosodi-n-propylamine	1690		310	29
106-46-7	1,4-Dichlorobenzene	1580		310	13
91-58-7	2-Chloronaphthalene	1790		310	9.4
95-57-8	2-Chlorophenol	1700		310	20
7005-72-3	4-Chlorophenyl phenyl ether	1960		310	20
218-01-9	Chrysene	2000		310	25
53-70-3	Dibenz(a,h)anthracene	2120		310	18
132-64-9	Dibenzofuran	1850		310	19

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26179/3-A

Matrix: Solid Lab File ID: D7565.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 31.8(g) Date Analyzed: 08/17/2010 13:47

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	2180		310	15
50-32-8	Benzo[a]pyrene	1770		310	19
84-74-2	Di-n-butyl phthalate	2050		310	27
95-50-1	1,2-Dichlorobenzene	1630		310	21
541-73-1	1,3-Dichlorobenzene	1580		310	11
91-94-1	3,3'-Dichlorobenzidine	1670		1500	85
120-83-2	2,4-Dichlorophenol	1740		310	9.4
84-66-2	Diethyl phthalate	2040		620	25
193-39-5	Indeno[1,2,3-cd]pyrene	2270		310	21
78-59-1	Isophorone	1660		310	16
91-57-6	2-Methylnaphthalene	1670		310	18
95-48-7	2-Methylphenol	1710		310	12
91-20-3	Naphthalene	1600		310	29
88-74-4	2-Nitroaniline	2060		1500	47
99-09-2	3-Nitroaniline	1970		1500	69
100-01-6	4-Nitroaniline	2080		1500	68
98-95-3	Nitrobenzene	1570		310	21
88-75-5	2-Nitrophenol	1680		310	9.4
100-02-7	4-Nitrophenol	2040		1500	92
129-00-0	Pyrene	1930		380	11
87-86-5	Pentachlorophenol	2070		1500	310
85-01-8	Phenanthrene	1980		310	16
120-82-1	1,2,4-Trichlorobenzene	1460		310	26
95-95-4	2,4,5-Trichlorophenol	2040		310	9.4
88-06-2	2,4,6-Trichlorophenol	1820		310	9.4
108-95-2	Phenol	1800		310	17
86-74-8	Carbazole	2020		310	34
62-75-9	N-Nitrosodimethylamine	1730		490	35
117-81-7	Bis(2-ethylhexyl) phthalate	2020		310	43
117-84-0	Di-n-octyl phthalate	1890		310	14
15831-10-4	3 & 4 Methylphenol	3620		310	31
59-50-7	4-Chloro-3-methylphenol	1860		310	62
108-60-1	2,2'-oxybis[1-chloropropane]	1760		310	22
106-47-8	4-Chloroaniline	1440		310	77

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26179/3-A
Matrix: Solid Lab File ID: D7565.D
Analysis Method: 8270C/DoD Date Collected: _____
Extract. Method: 3550C Date Extracted: 08/10/2010 14:30
Sample wt/vol: 31.8(g) Date Analyzed: 08/17/2010 13:47
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	71	45-105	
367-12-4	2-Fluorophenol (Surr)	71	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	63	35-100	
1718-51-0	Terphenyl-d14 (Surr)	87	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	89	35-125	
4165-62-2	Phenol-d5 (Surr)	74	40-100	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-28094/2-A

Matrix: Water Lab File ID: B9900.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1000 (mL) Date Analyzed: 08/28/2010 20:32

Con. Extract Vol.: 1000 (uL) Dilution Factor: 1

Injection Volume: 0.5 (uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	57.9		10	0.28
208-96-8	Acenaphthylene	59.1		10	0.49
120-12-7	Anthracene	72.5		10	0.42
92-87-5	Benzidine	135	J	200	50
56-55-3	Benzo[a]anthracene	74.7		10	0.35
65-85-0	Benzoic acid	87.1		80	10
205-99-2	Benzo[b]fluoranthene	75.3		10	0.53
207-08-9	Benzo[k]fluoranthene	71.1		10	0.46
100-51-6	Benzyl alcohol	77.3		25	0.23
111-91-1	Bis(2-chloroethoxy)methane	70.2		10	0.97
111-44-4	Bis(2-chloroethyl) ether	69.8		20	0.41
101-55-3	4-Bromophenyl phenyl ether	67.5		10	0.43
85-68-7	Butyl benzyl phthalate	83.6		20	1.0
105-67-9	2,4-Dimethylphenol	58.4		10	0.58
131-11-3	Dimethyl phthalate	73.4		20	0.21
534-52-1	4,6-Dinitro-2-methylphenol	54.1	J	80	4.0
51-28-5	2,4-Dinitrophenol	45.9	J	80	10
121-14-2	2,4-Dinitrotoluene	81.0		20	1.7
606-20-2	2,6-Dinitrotoluene	76.1		20	1.9
206-44-0	Fluoranthene	76.6		20	0.20
86-73-7	Fluorene	66.1		10	0.31
122-66-7	1,2-Diphenylhydrazine	71.1		10	0.23
118-74-1	Hexachlorobenzene	69.7		10	0.66
87-68-3	Hexachlorobutadiene	37.2		30	3.3
67-72-1	Hexachloroethane	34.8		10	2.1
86-30-6	N-Nitrosodiphenylamine	60.4		10	0.44
621-64-7	N-Nitrosodi-n-propylamine	71.8		20	0.35
106-46-7	1,4-Dichlorobenzene	42.0		10	0.32
91-58-7	2-Chloronaphthalene	50.5		10	0.26
95-57-8	2-Chlorophenol	68.2		10	2.0
7005-72-3	4-Chlorophenyl phenyl ether	66.7		10	1.7
218-01-9	Chrysene	69.4		10	0.54
53-70-3	Dibenz(a,h)anthracene	75.4		10	0.51
132-64-9	Dibenzofuran	62.3		10	0.29

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-28094/2-A

Matrix: Water Lab File ID: B9900.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1000(mL) Date Analyzed: 08/28/2010 20:32

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	71.7		10	0.50
50-32-8	Benzo[a]pyrene	65.1		10	0.31
84-74-2	Di-n-butyl phthalate	79.9		20	1.2
95-50-1	1,2-Dichlorobenzene	43.7		10	0.23
541-73-1	1,3-Dichlorobenzene	41.7		10	0.30
91-94-1	3,3'-Dichlorobenzidine	55.9		50	2.0
120-83-2	2,4-Dichlorophenol	71.8		10	0.64
84-66-2	Diethyl phthalate	73.9		20	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	75.3		10	0.65
78-59-1	Isophorone	73.5		10	0.21
91-57-6	2-Methylnaphthalene	46.1		10	0.29
95-48-7	2-Methylphenol	69.5		10	0.98
91-20-3	Naphthalene	45.5		10	0.29
88-74-4	2-Nitroaniline	85.8		50	1.7
99-09-2	3-Nitroaniline	77.4		50	2.0
100-01-6	4-Nitroaniline	79.4		50	2.0
98-95-3	Nitrobenzene	66.6		20	0.81
88-75-5	2-Nitrophenol	76.8		20	0.39
100-02-7	4-Nitrophenol	79.7		50	1.2
129-00-0	Pyrene	74.4		10	0.37
87-86-5	Pentachlorophenol	80.7		80	20
85-01-8	Phenanthrene	68.8		10	0.26
120-82-1	1,2,4-Trichlorobenzene	38.3		10	0.28
95-95-4	2,4,5-Trichlorophenol	77.7		20	0.45
88-06-2	2,4,6-Trichlorophenol	80.1		20	0.29
108-95-2	Phenol	73.4		10	2.0
86-74-8	Carbazole	72.9		10	0.43
62-75-9	N-Nitrosodimethylamine	70.0		10	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	85.6		10	0.56
117-84-0	Di-n-octyl phthalate	86.1		20	0.35
15831-10-4	3 & 4 Methylphenol	134		20	0.25
59-50-7	4-Chloro-3-methylphenol	78.5		20	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	61.6		10	0.28
106-47-8	4-Chloroaniline	66.1		25	2.1

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-28094/2-A
Matrix: Water Lab File ID: B9900.D
Analysis Method: 8270C/DoD Date Collected: _____
Extract. Method: 3520C Date Extracted: 08/23/2010 14:15
Sample wt/vol: 1000(mL) Date Analyzed: 08/28/2010 20:32
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 29378 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	62	50-110	
367-12-4	2-Fluorophenol (Surr)	85	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	83	40-110	
1718-51-0	Terphenyl-d14 (Surr)	94	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	98	40-125	
4165-62-2	Phenol-d5 (Surr)	88	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-25954/17-A

Matrix: Water Lab File ID: D7610.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1000 (mL) Date Analyzed: 08/19/2010 12:04

Con. Extract Vol.: 1000 (uL) Dilution Factor: 1

Injection Volume: 0.5 (uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	53.4	Q	10	0.28
208-96-8	Acenaphthylene	54.0	Q	10	0.49
120-12-7	Anthracene	68.9		10	0.42
92-87-5	Benzidine	100	U	200	50
56-55-3	Benzo[a]anthracene	67.6		10	0.35
65-85-0	Benzoic acid	74.5	J	80	10
205-99-2	Benzo[b]fluoranthene	76.0		10	0.53
207-08-9	Benzo[k]fluoranthene	63.6		10	0.46
100-51-6	Benzyl alcohol	83.5		25	0.23
111-91-1	Bis(2-chloroethoxy)methane	70.0		10	0.97
111-44-4	Bis(2-chloroethyl)ether	63.1		20	0.41
101-55-3	4-Bromophenyl phenyl ether	66.5		10	0.43
85-68-7	Butyl benzyl phthalate	65.0		20	1.0
105-67-9	2,4-Dimethylphenol	53.3		10	0.58
131-11-3	Dimethyl phthalate	78.0		20	0.21
534-52-1	4,6-Dinitro-2-methylphenol	75.2	J	80	4.0
51-28-5	2,4-Dinitrophenol	84.7		80	10
121-14-2	2,4-Dinitrotoluene	79.3		20	1.7
606-20-2	2,6-Dinitrotoluene	74.5		20	1.9
206-44-0	Fluoranthene	75.5		20	0.20
86-73-7	Fluorene	62.9		10	0.31
122-66-7	1,2-Diphenylhydrazine	60.6		10	0.23
118-74-1	Hexachlorobenzene	73.4		10	0.66
87-68-3	Hexachlorobutadiene	29.6	J	30	3.3
67-72-1	Hexachloroethane	26.6		10	2.1
86-30-6	N-Nitrosodiphenylamine	58.3		10	0.44
621-64-7	N-Nitrosodi-n-propylamine	71.7		20	0.35
106-46-7	1,4-Dichlorobenzene	33.3		10	0.32
91-58-7	2-Chloronaphthalene	45.6	Q	10	0.26
95-57-8	2-Chlorophenol	69.9		10	2.0
7005-72-3	4-Chlorophenyl phenyl ether	64.3		10	1.7
218-01-9	Chrysene	66.7		10	0.54
53-70-3	Dibenz(a,h)anthracene	72.4		10	0.51
132-64-9	Dibenzofuran	57.5	Q	10	0.29

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-25954/17-A

Matrix: Water Lab File ID: D7610.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/07/2010 16:12

Sample wt/vol: 1000(mL) Date Analyzed: 08/19/2010 12:04

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27824 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	73.5		10	0.50
50-32-8	Benzo[a]pyrene	59.7		10	0.31
84-74-2	Di-n-butyl phthalate	71.6		20	1.2
95-50-1	1,2-Dichlorobenzene	34.9		10	0.23
541-73-1	1,3-Dichlorobenzene	32.4		10	0.30
91-94-1	3,3'-Dichlorobenzidine	46.4	J	50	2.0
120-83-2	2,4-Dichlorophenol	69.3		10	0.64
84-66-2	Diethyl phthalate	76.4		20	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	76.6		10	0.65
78-59-1	Isophorone	70.6		10	0.21
91-57-6	2-Methylnaphthalene	37.8		10	0.29
95-48-7	2-Methylphenol	70.7		10	0.98
91-20-3	Naphthalene	38.1		10	0.29
88-74-4	2-Nitroaniline	81.7		50	1.7
99-09-2	3-Nitroaniline	77.3		50	2.0
100-01-6	4-Nitroaniline	78.6		50	2.0
98-95-3	Nitrobenzene	62.1		20	0.81
88-75-5	2-Nitrophenol	68.9		20	0.39
100-02-7	4-Nitrophenol	77.0		50	1.2
129-00-0	Pyrene	66.4		10	0.37
87-86-5	Pentachlorophenol	82.4		80	20
85-01-8	Phenanthrene	68.1		10	0.26
120-82-1	1,2,4-Trichlorobenzene	29.6		10	0.28
95-95-4	2,4,5-Trichlorophenol	80.5		20	0.45
88-06-2	2,4,6-Trichlorophenol	74.6		20	0.29
108-95-2	Phenol	75.7		10	2.0
86-74-8	Carbazole	72.7		10	0.43
62-75-9	N-Nitrosodimethylamine	73.9		10	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	69.2		10	0.56
117-84-0	Di-n-octyl phthalate	66.5		20	0.35
15831-10-4	3 & 4 Methylphenol	150		20	0.25
59-50-7	4-Chloro-3-methylphenol	75.3		20	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	62.6		10	0.28
106-47-8	4-Chloroaniline	66.6		25	2.1

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-25954/17-A
Matrix: Water Lab File ID: D7610.D
Analysis Method: 8270C/DoD Date Collected: _____
Extract. Method: 3520C Date Extracted: 08/07/2010 16:12
Sample wt/vol: 1000(mL) Date Analyzed: 08/19/2010 12:04
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27824 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	55	50-110	
367-12-4	2-Fluorophenol (Surr)	86	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	72	40-110	
1718-51-0	Terphenyl-d14 (Surr)	95	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	109	40-125	
4165-62-2	Phenol-d5 (Surr)	98	10-115	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-26179/4-A

Matrix: Solid Lab File ID: D7566.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 14:06

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	1870		330	10
208-96-8	Acenaphthylene	1880		330	17
120-12-7	Anthracene	2050		330	17
92-87-5	Benzidine	3900	U	4000	980
56-55-3	Benzo[a]anthracene	2070		330	20
65-85-0	Benzoic acid	442	J Q	1600	330
205-99-2	Benzo[b]fluoranthene	2050		330	26
207-08-9	Benzo[k]fluoranthene	2170		330	40
100-51-6	Benzyl alcohol	2200		330	9.9
111-91-1	Bis(2-chloroethoxy)methane	1810		330	23
111-44-4	Bis(2-chloroethyl)ether	1750		330	16
101-55-3	4-Bromophenyl phenyl ether	2080		330	19
85-68-7	Butyl benzyl phthalate	1880		330	43
105-67-9	2,4-Dimethylphenol	1690		330	66
131-11-3	Dimethyl phthalate	2100		330	23
534-52-1	4,6-Dinitro-2-methylphenol	612	J Q	1600	330
51-28-5	2,4-Dinitrophenol	429	J Q	1600	330
121-14-2	2,4-Dinitrotoluene	2170		330	66
606-20-2	2,6-Dinitrotoluene	2030		330	28
206-44-0	Fluoranthene	2230		330	36
86-73-7	Fluorene	1960		330	18
122-66-7	1,2-Diphenylhydrazine	1850		330	22
118-74-1	Hexachlorobenzene	2160		330	29
87-68-3	Hexachlorobutadiene	1780		330	9.9
67-72-1	Hexachloroethane	1610		330	21
86-30-6	N-Nitrosodiphenylamine	1680		330	21
621-64-7	N-Nitrosodi-n-propylamine	1890		330	31
106-46-7	1,4-Dichlorobenzene	1760		330	14
91-58-7	2-Chloronaphthalene	1890		330	9.9
95-57-8	2-Chlorophenol	1910		330	21
7005-72-3	4-Chlorophenyl phenyl ether	2080		330	21
218-01-9	Chrysene	2020		330	27
53-70-3	Dibenz(a,h)anthracene	2190		330	19
132-64-9	Dibenzofuran	1940		330	20

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-26179/4-A

Matrix: Solid Lab File ID: D7566.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3550C Date Extracted: 08/10/2010 14:30

Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 14:06

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	2260		330	16
50-32-8	Benzo[a]pyrene	1840		330	20
84-74-2	Di-n-butyl phthalate	2080		330	29
95-50-1	1,2-Dichlorobenzene	1780		330	22
541-73-1	1,3-Dichlorobenzene	1770		330	12
91-94-1	3,3'-Dichlorobenzidine	1620		1600	89
120-83-2	2,4-Dichlorophenol	1880		330	9.9
84-66-2	Diethyl phthalate	2100		660	26
193-39-5	Indeno[1,2,3-cd]pyrene	2260		330	22
78-59-1	Isophorone	1820		330	17
91-57-6	2-Methylnaphthalene	1830		330	19
95-48-7	2-Methylphenol	1950		330	13
91-20-3	Naphthalene	1760		330	31
88-74-4	2-Nitroaniline	2140		1600	50
99-09-2	3-Nitroaniline	1950		1600	73
100-01-6	4-Nitroaniline	2090		1600	72
98-95-3	Nitrobenzene	1710		330	22
88-75-5	2-Nitrophenol	1800		330	9.9
100-02-7	4-Nitrophenol	1970		1600	96
129-00-0	Pyrene	1990		400	12
87-86-5	Pentachlorophenol	1880		1600	330
85-01-8	Phenanthrene	2030		330	17
120-82-1	1,2,4-Trichlorobenzene	1570		330	28
95-95-4	2,4,5-Trichlorophenol	2090		330	9.9
88-06-2	2,4,6-Trichlorophenol	1920		330	9.9
108-95-2	Phenol	1950		330	18
86-74-8	Carbazole	2090		330	36
62-75-9	N-Nitrosodimethylamine	1880		520	37
117-81-7	Bis(2-ethylhexyl) phthalate	2010		330	46
117-84-0	Di-n-octyl phthalate	1920		330	14
15831-10-4	3 & 4 Methylphenol	4000		330	33
59-50-7	4-Chloro-3-methylphenol	2000		330	66
108-60-1	2,2'-oxybis[1-chloropropane]	1960		330	23
106-47-8	4-Chloroaniline	1510		330	81

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-26179/4-A
Matrix: Solid Lab File ID: D7566.D
Analysis Method: 8270C/DoD Date Collected: _____
Extract. Method: 3550C Date Extracted: 08/10/2010 14:30
Sample wt/vol: 30.2(g) Date Analyzed: 08/17/2010 14:06
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 0.5(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27640 Units: ug/Kg

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	72	45-105	
367-12-4	2-Fluorophenol (Surr)	73	35-105	
4165-60-0	Nitrobenzene-d5 (Surr)	65	35-100	
1718-51-0	Terphenyl-d14 (Surr)	83	30-125	
118-79-6	2,4,6-Tribromophenol (Surr)	83	35-125	
4165-62-2	Phenol-d5 (Surr)	77	40-100	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-28094/3-A

Matrix: Water Lab File ID: B9901.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1000(mL) Date Analyzed: 08/28/2010 20:52

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
83-32-9	Acenaphthene	62.9		10	0.28
208-96-8	Acenaphthylene	64.9		10	0.49
120-12-7	Anthracene	75.7		10	0.42
92-87-5	Benzidine	153	J	200	50
56-55-3	Benzo[a]anthracene	77.1		10	0.35
65-85-0	Benzoic acid	88.9		80	10
205-99-2	Benzo[b]fluoranthene	84.0		10	0.53
207-08-9	Benzo[k]fluoranthene	68.8		10	0.46
100-51-6	Benzyl alcohol	79.6		25	0.23
111-91-1	Bis(2-chloroethoxy)methane	72.0		10	0.97
111-44-4	Bis(2-chloroethyl) ether	73.7		20	0.41
101-55-3	4-Bromophenyl phenyl ether	72.3		10	0.43
85-68-7	Butyl benzyl phthalate	85.4		20	1.0
105-67-9	2,4-Dimethylphenol	55.0		10	0.58
131-11-3	Dimethyl phthalate	75.0		20	0.21
534-52-1	4,6-Dinitro-2-methylphenol	62.4	J	80	4.0
51-28-5	2,4-Dinitrophenol	55.8	J	80	10
121-14-2	2,4-Dinitrotoluene	84.1		20	1.7
606-20-2	2,6-Dinitrotoluene	77.9		20	1.9
206-44-0	Fluoranthene	79.1		20	0.20
86-73-7	Fluorene	69.5		10	0.31
122-66-7	1,2-Diphenylhydrazine	74.6		10	0.23
118-74-1	Hexachlorobenzene	73.7		10	0.66
87-68-3	Hexachlorobutadiene	46.4		30	3.3
67-72-1	Hexachloroethane	45.8		10	2.1
86-30-6	N-Nitrosodiphenylamine	62.6		10	0.44
621-64-7	N-Nitrosodi-n-propylamine	74.4		20	0.35
106-46-7	1,4-Dichlorobenzene	50.0		10	0.32
91-58-7	2-Chloronaphthalene	57.9		10	0.26
95-57-8	2-Chlorophenol	71.2		10	2.0
7005-72-3	4-Chlorophenyl phenyl ether	69.5		10	1.7
218-01-9	Chrysene	70.9		10	0.54
53-70-3	Dibenz(a,h)anthracene	77.7		10	0.51
132-64-9	Dibenzofuran	67.5		10	0.29

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-28094/3-A

Matrix: Water Lab File ID: B9901.D

Analysis Method: 8270C/DoD Date Collected: _____

Extract. Method: 3520C Date Extracted: 08/23/2010 14:15

Sample wt/vol: 1000(mL) Date Analyzed: 08/28/2010 20:52

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 0.5(uL) Level: (low/med) Low

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 29378 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
191-24-2	Benzo[g,h,i]perylene	74.8		10	0.50
50-32-8	Benzo[a]pyrene	67.8		10	0.31
84-74-2	Di-n-butyl phthalate	82.4		20	1.2
95-50-1	1,2-Dichlorobenzene	51.6		10	0.23
541-73-1	1,3-Dichlorobenzene	49.4		10	0.30
91-94-1	3,3'-Dichlorobenzidine	58.7		50	2.0
120-83-2	2,4-Dichlorophenol	75.5		10	0.64
84-66-2	Diethyl phthalate	75.7		20	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	77.6		10	0.65
78-59-1	Isophorone	74.9		10	0.21
91-57-6	2-Methylnaphthalene	55.4		10	0.29
95-48-7	2-Methylphenol	71.9		10	0.98
91-20-3	Naphthalene	54.2		10	0.29
88-74-4	2-Nitroaniline	85.7		50	1.7
99-09-2	3-Nitroaniline	82.6		50	2.0
100-01-6	4-Nitroaniline	80.4		50	2.0
98-95-3	Nitrobenzene	70.5		20	0.81
88-75-5	2-Nitrophenol	81.3		20	0.39
100-02-7	4-Nitrophenol	80.6		50	1.2
129-00-0	Pyrene	76.8		10	0.37
87-86-5	Pentachlorophenol	83.4		80	20
85-01-8	Phenanthrene	73.0		10	0.26
120-82-1	1,2,4-Trichlorobenzene	47.0		10	0.28
95-95-4	2,4,5-Trichlorophenol	80.2		20	0.45
88-06-2	2,4,6-Trichlorophenol	82.8		20	0.29
108-95-2	Phenol	76.0		10	2.0
86-74-8	Carbazole	76.0		10	0.43
62-75-9	N-Nitrosodimethylamine	72.1		10	0.29
117-81-7	Bis(2-ethylhexyl) phthalate	87.0		10	0.56
117-84-0	Di-n-octyl phthalate	88.3		20	0.35
15831-10-4	3 & 4 Methylphenol	137		20	0.25
59-50-7	4-Chloro-3-methylphenol	80.8		20	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	67.0		10	0.28
106-47-8	4-Chloroaniline	71.5		25	2.1

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-28094/3-A
Matrix: Water Lab File ID: B9901.D
Analysis Method: 8270C/DoD Date Collected: _____
Extract. Method: 3520C Date Extracted: 08/23/2010 14:15
Sample wt/vol: 1000 (mL) Date Analyzed: 08/28/2010 20:52
Con. Extract Vol.: 1000 (uL) Dilution Factor: 1
Injection Volume: 0.5 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 29378 Units: ug/L

CAS NO.	SURROGATE	%REC	LIMITS	Q
321-60-8	2-Fluorobiphenyl	71	50-110	
367-12-4	2-Fluorophenol (Surr)	85	20-110	
4165-60-0	Nitrobenzene-d5 (Surr)	88	40-110	
1718-51-0	Terphenyl-d14 (Surr)	96	50-135	
118-79-6	2,4,6-Tribromophenol (Surr)	100	40-125	
4165-62-2	Phenol-d5 (Surr)	91	10-115	

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_B Start Date: 08/28/2010 07:33Analysis Batch Number: 29057 End Date: 08/28/2010 10:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-29057/1		08/28/2010 07:33	1	B9885.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29057/2		08/28/2010 07:46	1	B9886.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29057/3		08/28/2010 08:05	1	B9887.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29057/4		08/28/2010 08:24	1	B9888.D	Vf-5MS (30.25) 0.25 (mm)
ICIS 280-29057/5		08/28/2010 08:43	1	B9889.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29057/6		08/28/2010 09:02	1	B9890.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29057/7		08/28/2010 09:21	1	B9891.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29057/8		08/28/2010 09:40	1	B9892.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-29057/9		08/28/2010 09:59	1	B9893.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-29057/10		08/28/2010 10:19	1	B9894.D	Vf-5MS (30.25) 0.25 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_B Start Date: 08/28/2010 07:33Analysis Batch Number: 29075 End Date: 08/28/2010 14:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-29075/1		08/28/2010 07:33	1	B9885A.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29075/2		08/28/2010 10:39	1	B9895.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29075/3		08/28/2010 10:59	1	B9896.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29075/4		08/28/2010 11:19	1	B9897.D	Vf-5MS (30.25) 0.25 (mm)
ICIS 280-29075/5		08/28/2010 11:40	1	B9898.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29075/6		08/28/2010 12:00	1	B9899.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29075/7		08/28/2010 12:20	1	B9900.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29075/8		08/28/2010 12:41	1	B9901.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-29075/9		08/28/2010 13:01	1	B9902.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-29075/10		08/28/2010 13:22	1	B9903.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-29075/11		08/28/2010 13:42	1	B9904.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-29075/12		08/28/2010 14:03	1	B9905.D	Vf-5MS (30.25) 0.25 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_B Start Date: 08/28/2010 15:04Analysis Batch Number: 29378 End Date: 08/29/2010 01:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-29378/1		08/28/2010 15:04	1	B9885.D	Vf-5MS (30.25) 0.25 (mm)
CCV 280-29378/2		08/28/2010 15:15	1	B9886.D	Vf-5MS (30.25) 0.25 (mm)
CCV 280-29378/3		08/28/2010 15:35	1	B9887.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 15:56	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 16:16	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 16:37	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 16:57	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 17:18	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 17:38	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 17:58	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 18:19	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 18:39	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 19:00	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 19:20	1		Vf-5MS (30.25) 0.25 (mm)
MB 280-28094/1-A		08/28/2010 20:11	1	B9899.D	Vf-5MS (30.25) 0.25 (mm)
LCS 280-28094/2-A		08/28/2010 20:32	1	B9900.D	Vf-5MS (30.25) 0.25 (mm)
LCSD 280-28094/3-A		08/28/2010 20:52	1	B9901.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 21:13	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 21:33	1		Vf-5MS (30.25) 0.25 (mm)
280-6075-6 RE	SW SUMP- RE	08/28/2010 21:53	1	B9904.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 22:14	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 22:34	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 22:54	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 23:14	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 23:35	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/28/2010 23:55	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/29/2010 00:15	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/29/2010 00:35	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/29/2010 00:56	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/29/2010 01:16	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/29/2010 01:36	1		Vf-5MS (30.25) 0.25 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_D Start Date: 08/10/2010 08:24Analysis Batch Number: 26451 End Date: 08/10/2010 13:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-26451/1		08/10/2010 08:24	1	D7258.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26451/2		08/10/2010 08:35	1	D7259.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26451/3		08/10/2010 08:53	1	D7260.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26451/4		08/10/2010 09:12	1	D7261.D	Vf-5MS (30.25) 0.25 (mm)
ICIS 280-26451/5		08/10/2010 09:55	1	D7262.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26451/6		08/10/2010 10:14	1	D7263.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26451/7		08/10/2010 10:33	1	D7264.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26451/8		08/10/2010 10:51	1	D7265.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26451/9		08/10/2010 11:10	1	D7266.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-26451/10		08/10/2010 11:28	1	D7267.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-26451/11		08/10/2010 11:47	1	D7268.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-26451/12		08/10/2010 13:00	1	D7269.D	Vf-5MS (30.25) 0.25 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Instrument ID: MSS_D Start Date: 08/10/2010 08:24
Analysis Batch Number: 26452 End Date: 08/10/2010 15:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-26452/1		08/10/2010 08:24	1	D7258.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26452/2		08/10/2010 13:19	1	D7270.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26452/3		08/10/2010 13:37	1	D7271.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26452/4		08/10/2010 13:56	1	D7272.D	Vf-5MS (30.25) 0.25 (mm)
ICIS 280-26452/5		08/10/2010 14:26	1	D7273.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26452/6		08/10/2010 14:45	1	D7274.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26452/7		08/10/2010 15:03	1	D7275.D	Vf-5MS (30.25) 0.25 (mm)
IC 280-26452/8		08/10/2010 15:22	1	D7276.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-26452/9		08/10/2010 15:41	1	D7277.D	Vf-5MS (30.25) 0.25 (mm)
ICV 280-26452/10		08/10/2010 15:59	1	D7278.D	Vf-5MS (30.25) 0.25 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_D Start Date: 08/17/2010 12:58

Analysis Batch Number: 27640 End Date: 08/18/2010 00:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-27640/1		08/17/2010 12:58	1	D7562.D	Vf-5MS (30.25) 0.25 (mm)
CCV 280-27640/2		08/17/2010 13:10	1	D7563.D	Vf-5MS (30.25) 0.25 (mm)
CCV 280-27640/3		08/17/2010 13:28	1	D7564.D	Vf-5MS (30.25) 0.25 (mm)
LCS 280-26179/3-A		08/17/2010 13:47	1	D7565.D	Vf-5MS (30.25) 0.25 (mm)
LCSD 280-26179/4-A		08/17/2010 14:06	1	D7566.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 14:24	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 14:43	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 15:04	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 15:22	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 15:41	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 16:08	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 16:27	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 16:46	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 17:04	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 17:23	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 17:41	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 18:00	1		Vf-5MS (30.25) 0.25 (mm)
MB 280-26179/1-A		08/17/2010 18:19	1	D7580.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 18:37	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 18:56	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 19:14	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 19:33	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 19:51	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 20:10	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 20:28	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 20:47	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 21:05	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 21:24	1		Vf-5MS (30.25) 0.25 (mm)
280-6075-1	SS1-	08/17/2010 21:42	1	D7591.D	Vf-5MS (30.25) 0.25 (mm)
280-6075-2	SS2-	08/17/2010 22:01	1	D7592.D	Vf-5MS (30.25) 0.25 (mm)
280-6075-3	SS3-	08/17/2010 22:19	1	D7593.D	Vf-5MS (30.25) 0.25 (mm)
280-6075-4	SS4-	08/17/2010 22:38	1	D7594.D	Vf-5MS (30.25) 0.25 (mm)
280-6075-8	SS1-DUP-	08/17/2010 22:56	1	D7595.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 23:15	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 23:33	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/17/2010 23:52	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/18/2010 00:10	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/18/2010 00:28	20		Vf-5MS (30.25) 0.25 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MSS_D Start Date: 08/19/2010 10:57

Analysis Batch Number: 27824 End Date: 08/19/2010 22:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTTP 280-27824/1		08/19/2010 10:57	1	D7606.D	Vf-5MS (30.25) 0.25 (mm)
CCV 280-27824/2		08/19/2010 11:08	1	D7607.D	Vf-5MS (30.25) 0.25 (mm)
CCV 280-27824/3		08/19/2010 11:27	1	D7608.D	Vf-5MS (30.25) 0.25 (mm)
LCS 280-25954/2-A		08/19/2010 11:46	1	D7609.D	Vf-5MS (30.25) 0.25 (mm)
LCSD 280-25954/17-A		08/19/2010 12:04	1	D7610.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 12:23	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 12:41	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 13:00	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 13:18	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 13:37	1		Vf-5MS (30.25) 0.25 (mm)
MB 280-25954/1-A		08/19/2010 14:04	1	D7617.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 14:23	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 14:41	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 15:00	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 15:18	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 15:37	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 15:56	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 16:14	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 16:33	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 16:51	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 17:10	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 17:29	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 17:47	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 18:06	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 18:24	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 18:43	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 19:01	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 19:20	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 19:39	1		Vf-5MS (30.25) 0.25 (mm)
280-6075-5	NE SUMP-	08/19/2010 19:57	1	D7636.D	Vf-5MS (30.25) 0.25 (mm)
280-6075-6	SW SUMP-	08/19/2010 20:16	1	D7637.D	Vf-5MS (30.25) 0.25 (mm)
280-6075-7	RINSATE	08/19/2010 20:34	1	D7638.D	Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 20:53	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 21:11	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 21:30	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 21:48	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 22:07	1		Vf-5MS (30.25) 0.25 (mm)
ZZZZZ		08/19/2010 22:25	1		Vf-5MS (30.25) 0.25 (mm)

GC/MS Continuing Calibration Review Checklist

Instrument ID and Date: Test P H2/APg 081710

Check Method Used: Analysis ☐ 625 ☒ 8270 ☐ Other SV

☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA

VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items		Level 1		Level 2	Comments
Continuing Calibration		Yes	No	N/A	
1. BFB(DFTPP) meets criteria?		☒	☐	☐	
2. ICAL date and instrument ID verified?		☒	☐	☐	
3. Do SPCC RRFs and CCC %Ds meet method criteria?		☒	☐	☐	
4. Does %D meet criteria for non-CCC compounds?		☒	☐	☐	
5. Isomeric pairs checked for correct peak assignment?		☒	☐	☐	
6. Standards traceability properly documented?		☒	☐	☐	
7. Manual integrations documented and checked?		☒	☐	☐	
8. Do the Internal Standards meet criteria for %D against ICAL?		☒	☐	☐	

1st Level Reviewer:  Date: 8/17/10

2nd Level Reviewer:  Date: 8/17/10

Revision 0
9/18/01
G:\QA\EditForms\Data Review\GCMS CCV

Injection Log

Directory: C:\HPCHEM\1\DATA\081710.B

00112315

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	D7560.D	1.	RINSE		17 Aug 2010 12:41
2	2	D7561.D	1.	RINSE		17 Aug 2010 12:49
3	2	D7562.D	1.	DFTPP-285743,,MS-DFTPP00025		✓ 17 Aug 2010 12:58
4	3	D7563.D	1.	CCV-259447,,HSL080	P072210;E102310	17 Aug 2010 13:10
5	4	D7564.D	1.	CCV-251770,,AP9080	P071510;E102310	17 Aug 2010 13:28
6	5	D7565.D	1.	lcs280-26179_3-a	26179	17 Aug 2010 13:47
7	6	D7566.D	1.	lcsd280-26179_4-a	26179	17 Aug 2010 14:06
8	7	D7567.D	1.	280-5878-b-2-bms	26179	17 Aug 2010 14:24
9	8	D7568.D	1.	280-5878-b-2-cmsd	26179	17 Aug 2010 14:43
10	9	D7569.D	1.	lcs280-26265_2-d	26763	17 Aug 2010 15:04
11	10	D7570.D	1.	280-6104-a-3-cms	26763	17 Aug 2010 15:22
12	11	D7571.D	1.	280-6104-a-3-dmsd	26763	17 Aug 2010 15:41
13	12	D7572.D	1.	RINSE		17 Aug 2010 15:57
14	13	D7573.D	1.	lb2280-26520_1-b	26769-291135	17 Aug 2010 16:08
15	14	D7574.D	1.	280-6148-d-9-b	26769	17 Aug 2010 16:27
16	15	D7575.D	1.	lb2280-26265_1-d	26763	17 Aug 2010 16:46
17	16	D7576.D	1.	280-6104-a-3-b	26763	17 Aug 2010 17:04
18	17	D7577.D	1.	280-6104-a-8-b	26763	17 Aug 2010 17:23
19	18	D7578.D	1.	280-6104-a-13-b	26763	17 Aug 2010 17:41
20	19	D7579.D	1.	280-6104-a-18-c	26763	17 Aug 2010 18:00
21	20	D7580.D	1.	mb280-26179_1-a	26179	17 Aug 2010 18:19
22	21	D7581.D	1.	280-5878-b-2-a	26179	17 Aug 2010 18:37
23	22	D7582.D	1.	280-5878-b-3-b	26179	17 Aug 2010 18:56
24	23	D7583.D	1.	280-5878-b-4-b	26179	17 Aug 2010 19:14
25	24	D7584.D	1.	280-5878-b-5-b	26179	17 Aug 2010 19:33
26	25	D7585.D	1.	280-5878-b-6-b	26179	17 Aug 2010 19:51
27	26	D7586.D	1.	280-5976-a-1-c - 1 Sure - use 8/19 data	26179	17 Aug 2010 20:10
28	27	D7587.D	1.	280-5976-a-2-c	26179	17 Aug 2010 20:28
29	28	D7588.D	1.	280-5988-a-3-b	26179	17 Aug 2010 20:47
30	29	D7589.D	1.	280-5988-b-4-b	26179	17 Aug 2010 21:05
31	30	D7590.D	1.	280-5988-b-5-d	26179	17 Aug 2010 21:24
32	31	D7591.D	1.	280-6075-b-1-a	26179	17 Aug 2010 21:42
33	32	D7592.D	1.	280-6075-a-2-a	26179	17 Aug 2010 22:01
34	33	D7593.D	1.	280-6075-b-3-a	26179	17 Aug 2010 22:19
35	34	D7594.D	1.	280-6075-a-4-a	26179	17 Aug 2010 22:38
36	35	D7595.D	1.	280-6075-c-8-a	26179	17 Aug 2010 22:56
37	36	D7596.D	1.	280-6033-a-1-b	26179	17 Aug 2010 23:15
38	37	D7597.D	1.	280-6033-d-2-b	26179	17 Aug 2010 23:33
39	38	D7598.D	1.	280-6033-b-12-a	26179	17 Aug 2010 23:52
40	39	D7599.D	1.	280-6033-a-13-a	26179	18 Aug 2010 00:10
41	40	D7600.D	1.	280-5949-a-1-e,20,NTC	26179	✓ 18 Aug 2010 00:28
42	98	D7601.D	1.	RINSE		18 Aug 2010 00:47
43	99	D7602.D	1.	RINSE		18 Aug 2010 01:05
44	100	D7603.D	1.	RINSE		18 Aug 2010 01:24

Data File : C:\HPCHEM\1\DATA\081710.B\D7562.D

Vial: 2

Acq On : 17 Aug 2010 12:58 pm

Operator: hoffmanm

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 17 15:40 2010

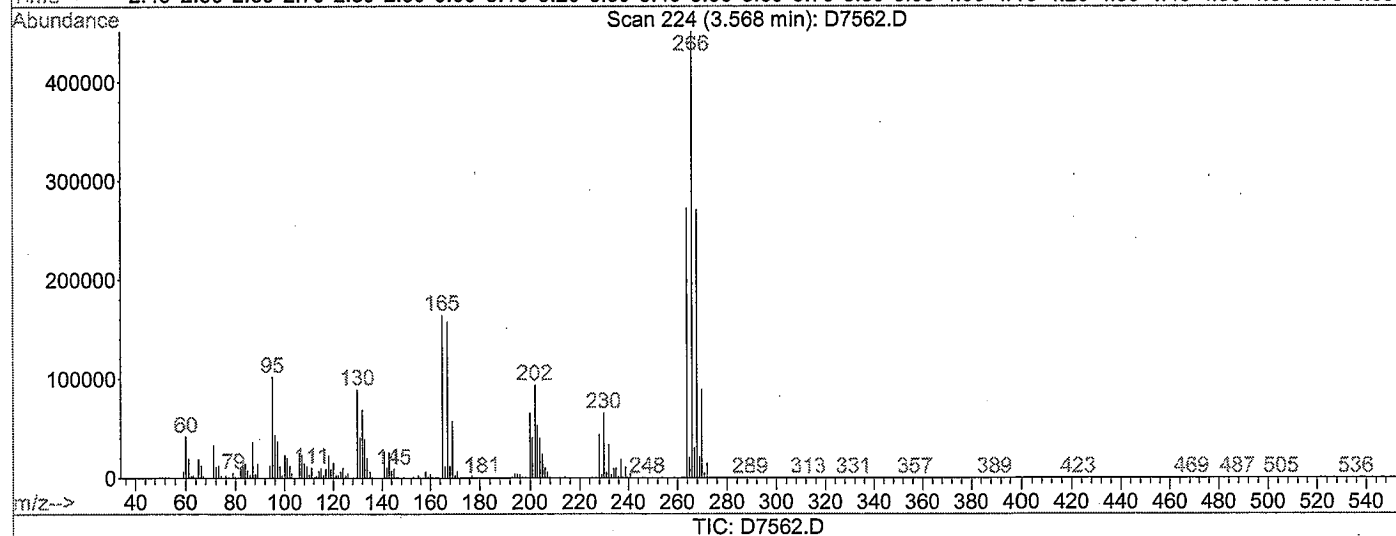
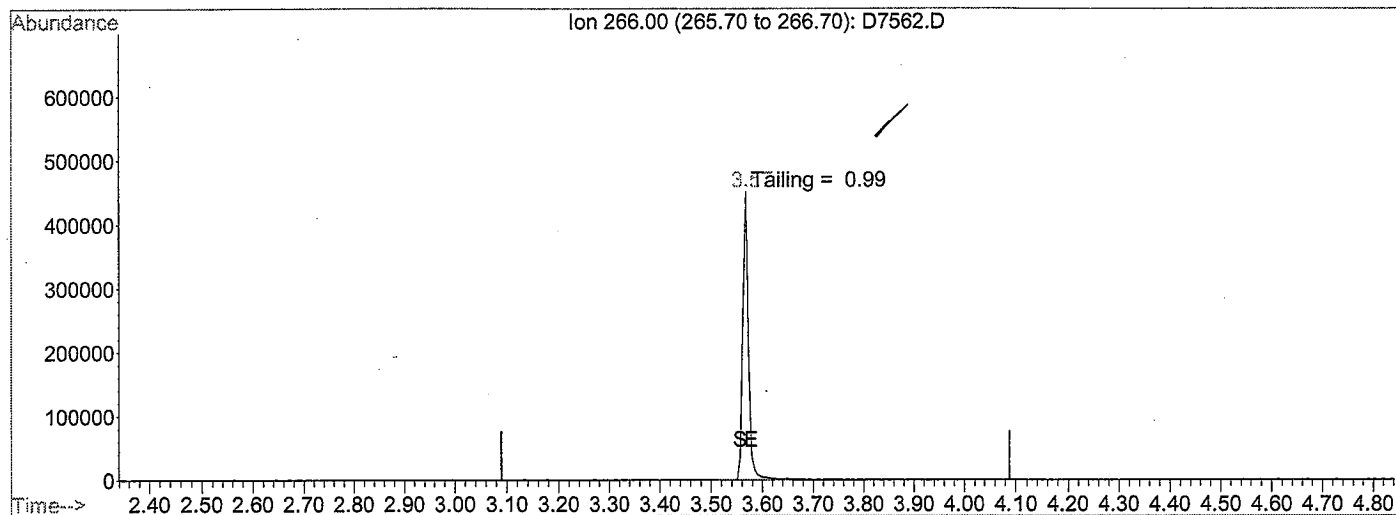
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Wed Aug 11 10:37:58 2010

Response via : Single Level Calibration



TIC: D7562.D

(1) Pentachlorophenol (Tailing<5)

3.57min 0.00

response 3485141

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081710.B\D7562.D

Vial: 2

Acq On : 17 Aug 2010 12:58 pm

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 17 15:40 2010

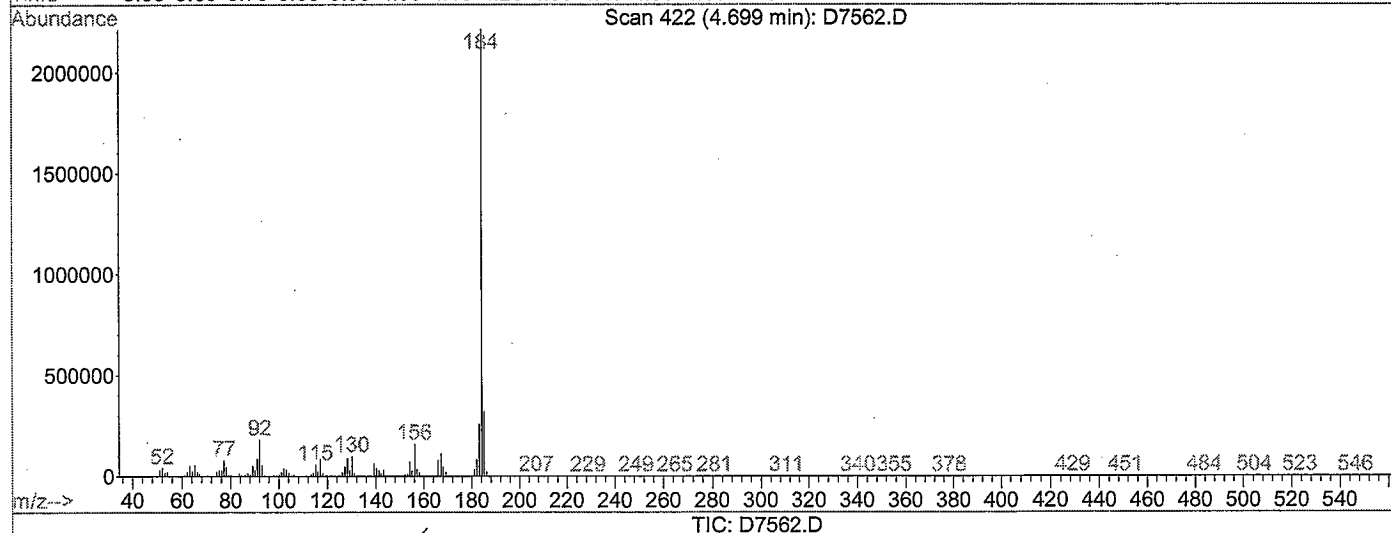
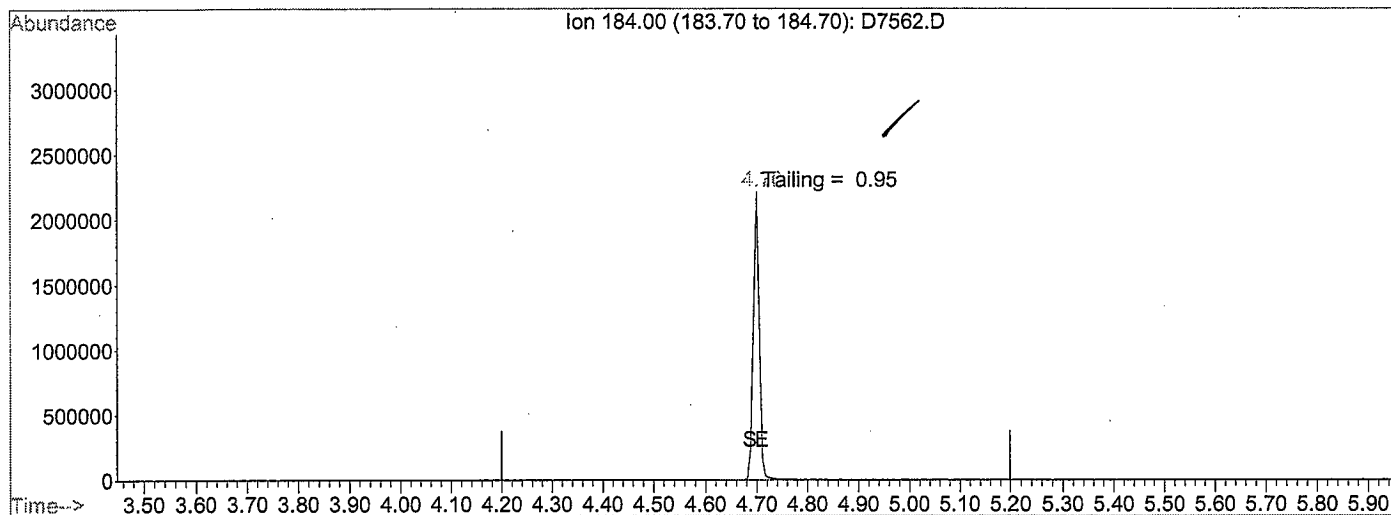
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Wed Aug 11 10:37:58 2010

Response via : Single Level Calibration



(2) Benzidine (Tailing<3)

4.70min 0.00

response 17534876

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081710.B\D7562.D

Vial: 2

Acq On : 17 Aug 2010 12:58 pm

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 17 15:40 2010

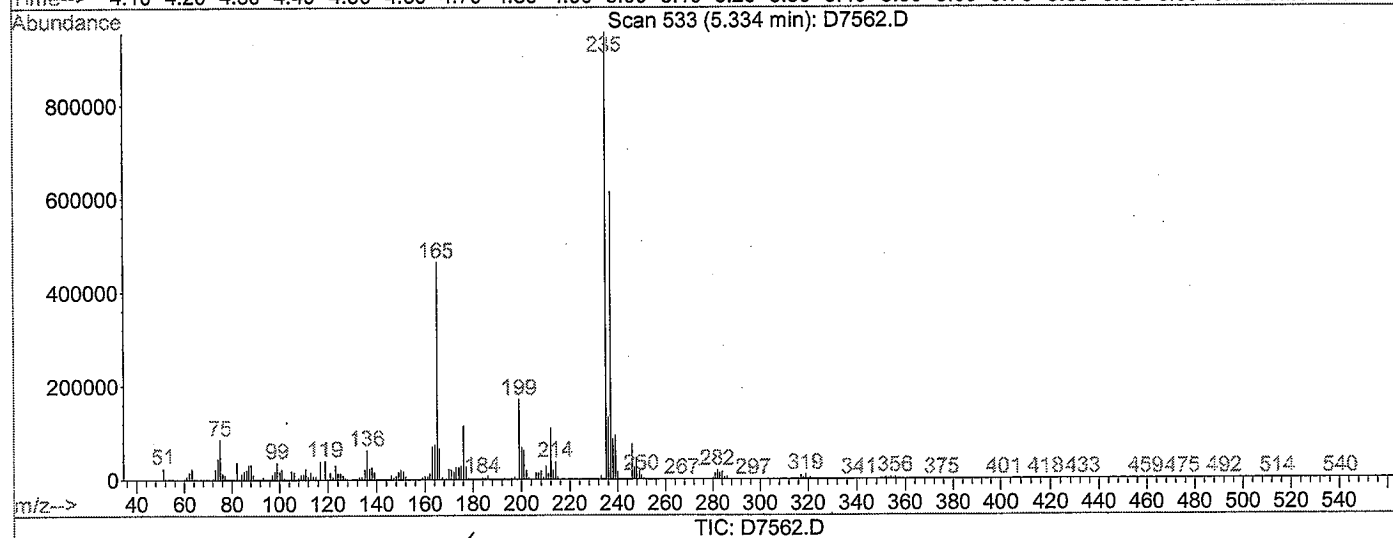
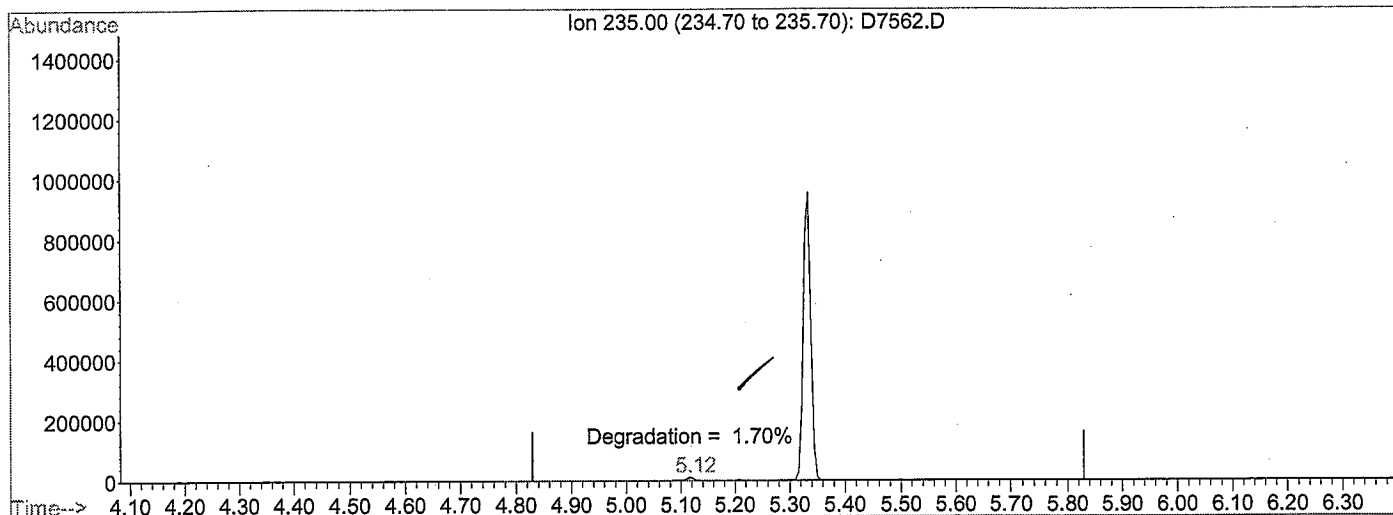
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Wed Aug 11 10:37:58 2010

Response via : Single Level Calibration



(3) 4,4'-DDT (Degradation<20%)

5.33min 0.00

response 9187399

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS Continuing Calibration Review Checklist

TestAmerica Denver

Instrument ID and Date: Inst. ID 081910 HSL/ADGCheck Method Used: Analysis ☐ 625 ☒ 8270 ☐ Other SV _____☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA.VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Continuing Calibration	Review Items	Level 1			Level 2	Comments
		Yes	No	N/A		
1.	BFB/DFTTP meets criteria?	/			/	
2.	ICAL date and instrument ID verified?	/			/	
3.	Do SPCC RRFs and CCC %Ds meet method criteria?	/			/	
4.	Does %D meet criteria for non-CCC compounds?	/			/	
5.	Isomeric pairs checked for correct peak assignment?	/			/	
6.	Standards traceability properly documented?	/			/	
7.	Manual integrations documented and checked?	/			/	
8.	Do the Internal Standards meet criteria for %D against ICAL?	/			/	

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1st Level Reviewer: mpdDate: 8/20/102nd Level Reviewer: [Signature]Date: 8/20/10

1,4-Naphthoquinone = -57.8% D

Revision 0

9/18/01

G:\QA\EditForms\Data Review\GCMS CCV

Injection Log

Directory: C:\HPCHEM\1\DATA\081910.B

00112320

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	D7604.D	1.	RINSE		19 Aug 2010 10:39
2	2	D7605.D	1.	RINSE		19 Aug 2010 10:48
3	2	D7606.D	1.	DFTPP-285743,,MS-DFTPP00025		19 Aug 2010 10:57
4	3	D7607.D	1.	CCV-297473,,HSL080	P081710;E102310	
5	4	D7608.D	1.	CCV-297474,,AP9080	P081710;E102310	19 Aug 2010 11:08
6	5	D7609.D	1.	280-282555,,LCS-25954		19 Aug 2010 11:27
7	6	D7610.D	1.	280-282681,,LCSD-25954	25954	19 Aug 2010 11:46
8	7	D7611.D	1.	280-299455,,LCS-27457	27457	19 Aug 2010 12:04
9	8	D7612.D	1.	280-5715-a-95-dms	27457	19 Aug 2010 12:23
10	9	D7613.D	1.	280-5715-a-95-emsd	27457	19 Aug 2010 12:41
11	10	D7614.D	1.	280-6033-p-8-cms	25954	19 Aug 2010 13:00
12	11	D7615.D	1.	280-6033-q-8-cmsd	25954	19 Aug 2010 13:18
13	12	D7616.D	1.	RINSE		19 Aug 2010 13:37
14	13	D7617.D	1.	280-282554,,MB-25954	25954	19 Aug 2010 13:53
15	14	D7618.D	1.	280-6033-c-8-c	25954	19 Aug 2010 14:04
16	15	D7619.D	1.	280-299454,,MB-27457	27457	19 Aug 2010 14:23
17	16	D7620.D	1.	280-5715-a-95-c	27457	19 Aug 2010 14:41
18	17	D7621.D	1.	280-5976-a-1-c,, <i>RA ms 3/21/10</i>	26179	19 Aug 2010 15:00
19	18	D7622.D	1.	280-5715-a-94-e	27457	19 Aug 2010 15:18
20	19	D7623.D	1.	280-5715-a-97-c	27457	19 Aug 2010 15:37
21	20	D7624.D	1.	280-5715-a-98-c	27457	19 Aug 2010 15:56
22	21	D7625.D	1.	280-5715-a-99-c	27457	19 Aug 2010 16:14
23	22	D7626.D	1.	280-5715-a-100-c	27457	19 Aug 2010 16:33
24	23	D7627.D	1.	280-5715-a-101-e	27457	19 Aug 2010 16:51
25	24	D7628.D	1.	280-5715-a-102-c	27457	19 Aug 2010 17:10
26	25	D7629.D	1.	280-5715-a-103-c	27457	19 Aug 2010 17:29
27	26	D7630.D	1.	280-5715-a-104-c	27457	19 Aug 2010 17:47
28	27	D7631.D	1.	280-5715-a-105-c	27457	19 Aug 2010 18:06
29	28	D7632.D	1.	280-5715-a-106-c	27457	19 Aug 2010 18:24
30	29	D7633.D	1.	280-5715-a-96-d	27457	19 Aug 2010 18:43
31	30	D7634.D	1.	280-5988-g-1-c	25954	19 Aug 2010 19:01
32	31	D7635.D	1.	280-5988-b-2-c	25954	19 Aug 2010 19:20
33	32	D7636.D	1.	280-6075-a-5-c	25954	19 Aug 2010 19:39
34	33	D7637.D	1.	280-6075-a-6-c	25954	19 Aug 2010 19:57
35	34	D7638.D	1.	280-6075-a-7-c	25954	19 Aug 2010 20:16
36	35	D7639.D	1.	280-6033-b-3-c	25954	19 Aug 2010 20:34
37	36	D7640.D	1.	280-6033-e-4-c	25954	19 Aug 2010 20:53
38	37	D7641.D	1.	280-6033-a-5-c	25954	19 Aug 2010 21:11
39	38	D7642.D	1.	280-6033-b-6-c	25954	19 Aug 2010 21:30
40	39	D7643.D	1.	280-6033-a-7-c	25954	19 Aug 2010 21:48
41	40	D7644.D	1.	280-6033-a-9-c	25954	19 Aug 2010 22:07
42	98	D7645.D	1.	RINSE		19 Aug 2010 22:25
43	99	D7646.D	1.	RINSE		19 Aug 2010 22:44
44	100	D7647.D	1.	RINSE		19 Aug 2010 23:03

Data File : C:\HPCHEM\1\DATA\081910.B\D7606.D

Vial: 2

Acq On : 19 Aug 2010 10:57 am

Operator: hoffmanm

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 19 16:39 2010

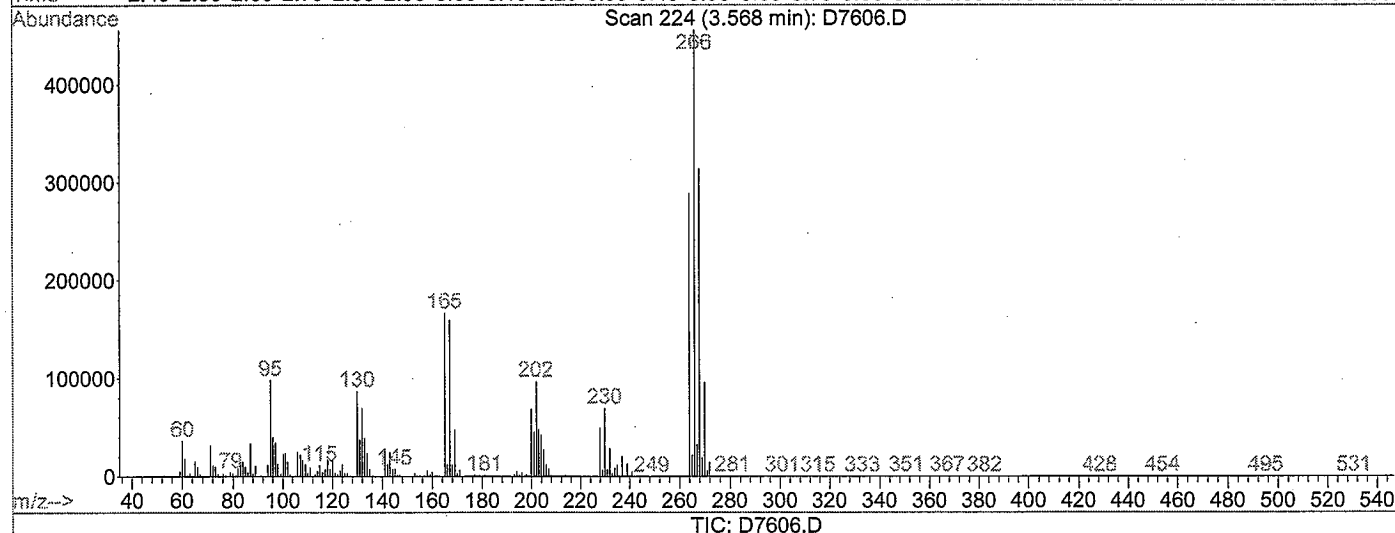
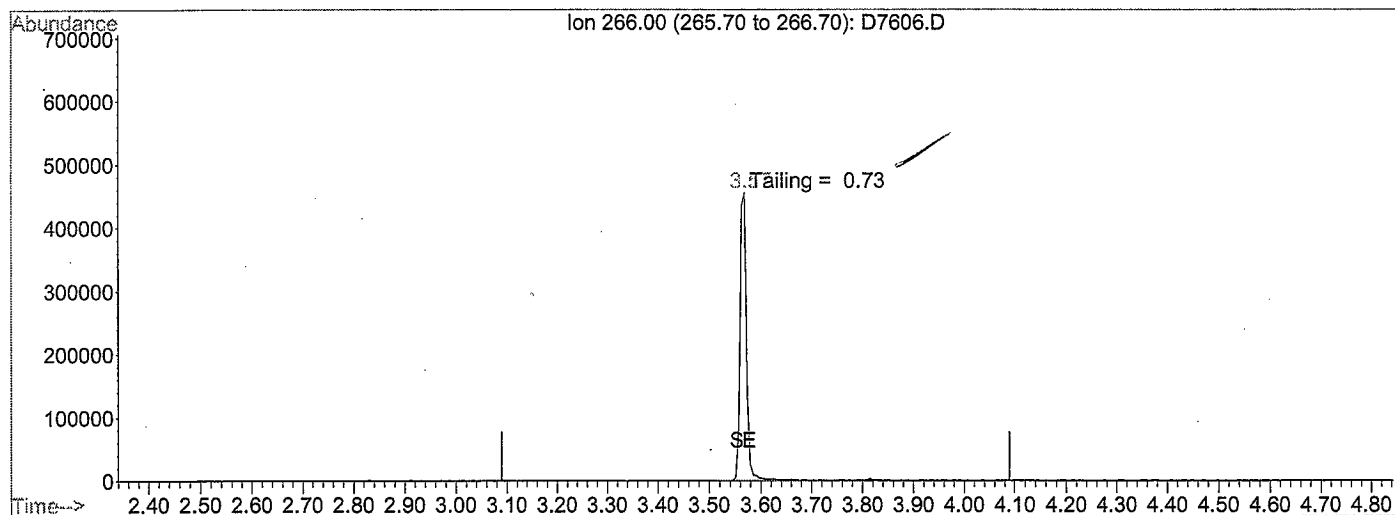
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Wed Aug 11 10:37:58 2010

Response via : Single Level Calibration



(1) Pentachlorophenol (Tailing<5)

3.57min 0.00

response 3996147

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081910.B\D7606.D

Vial: 2

Acq On : 19 Aug 2010 10:57 am

Operator: hoffmanm

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 19 16:39 2010

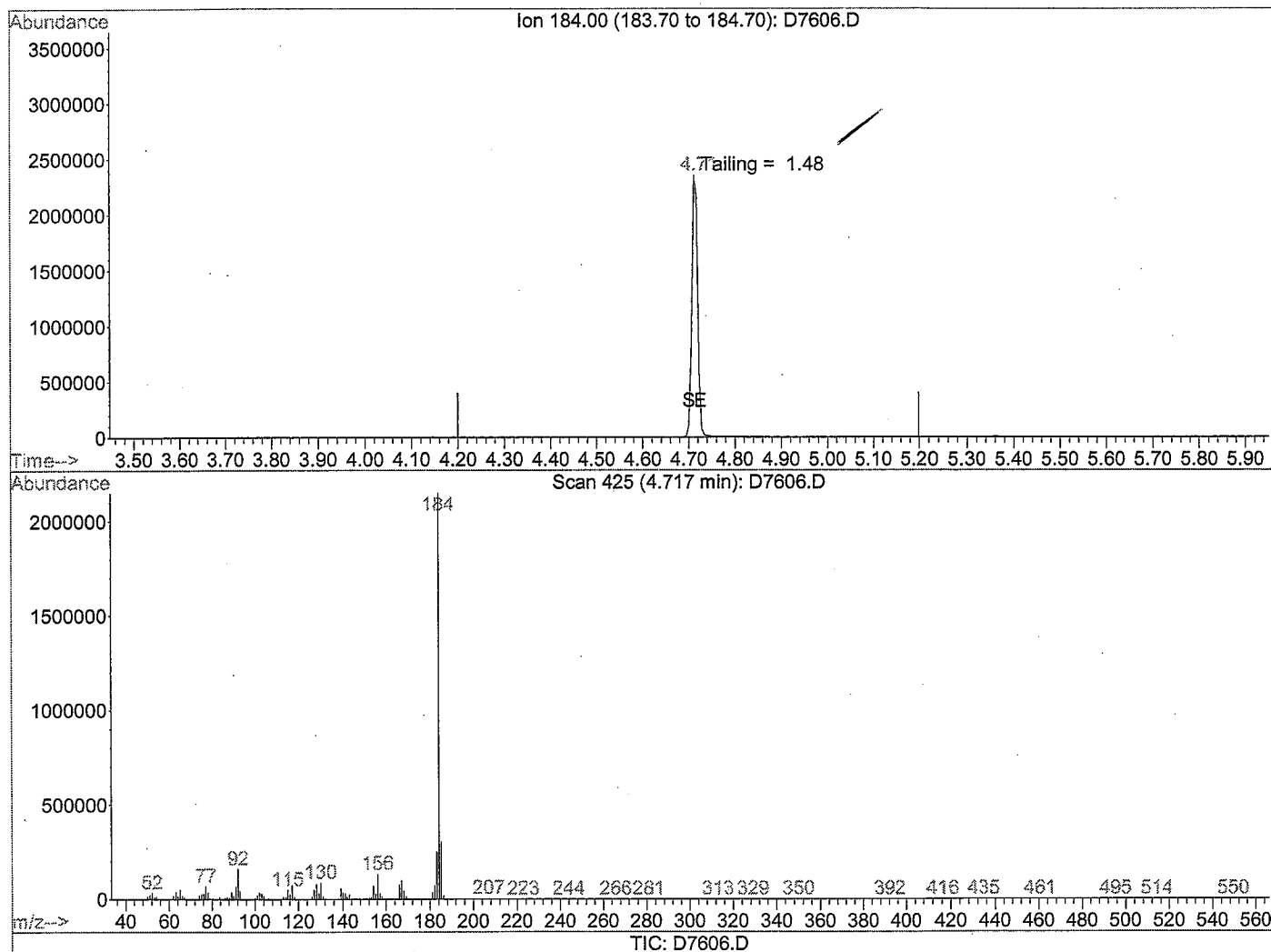
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Wed Aug 11 10:37:58 2010

Response via : Single Level Calibration



(2) Benzidine (Tailing<3)

4.72min 0.00

response 21179990

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081910.B\D7606.D

Vial: 2

Acq On : 19 Aug 2010 10:57 am

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 19 16:39 2010

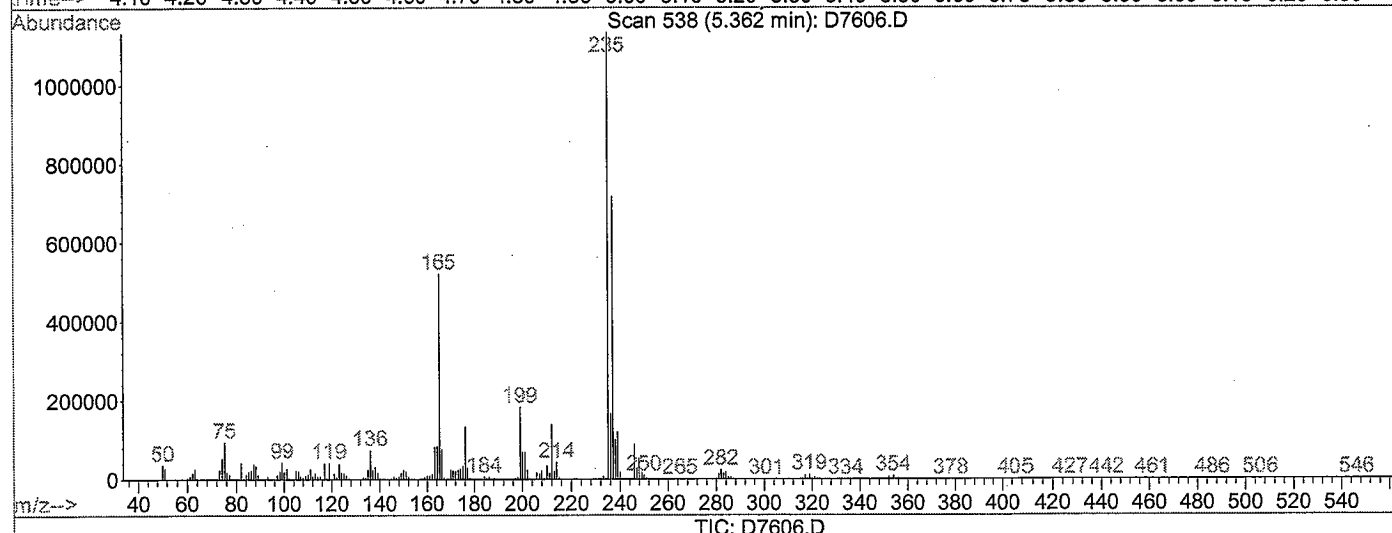
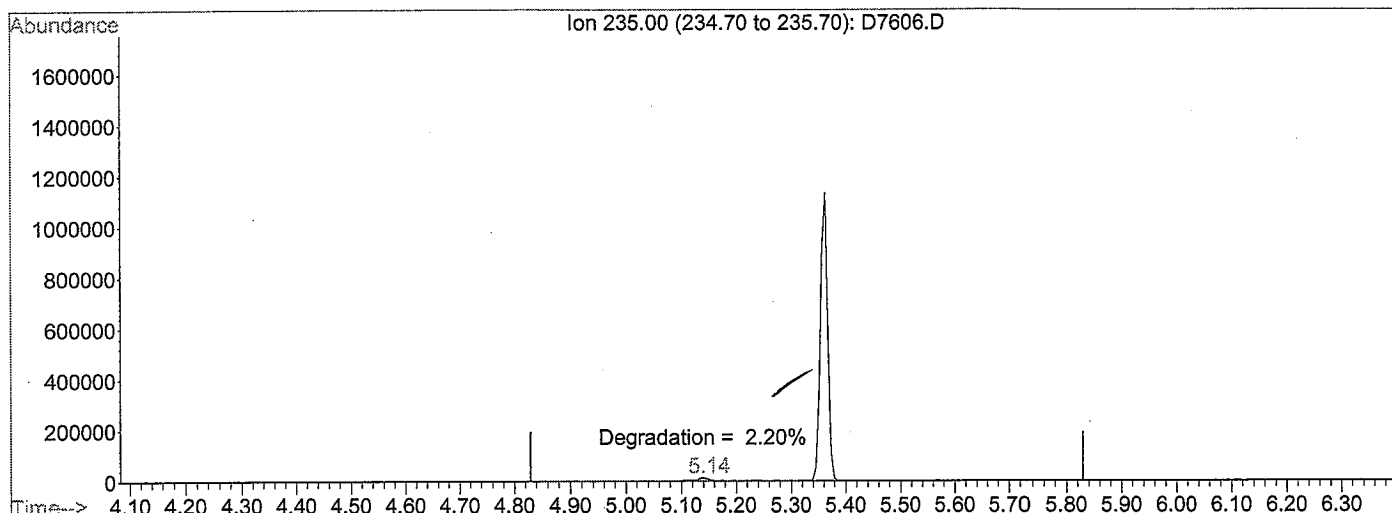
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Wed Aug 11 10:37:58 2010

Response via : Single Level Calibration



TIC: D7606.D

(3) 4,4'-DDT (Degradation<20%)

5.36min 0.00

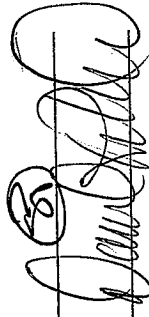
response 10559060

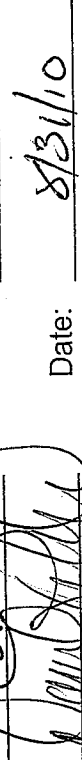
Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS Continuing Calibration Review Checklist

Instrument ID and Date: B 082810B HSL/APACheck Method Used: Analysis ☐ 625 ☒ 8270 ☐ Other SV _____☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOAVOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2		Comments
	Yes	No	Yes	No	
Continuing Calibration					
1. BFB/FTPP meets criteria?	☒		☒		
2. ICAL date and instrument ID verified?	☒		☒		
3. Do SPCC RRFs and CCC %Ds meet method criteria?	☒		☒		
4. Does %D meet criteria for non-CCC compounds?	☒		☒		
5. Isomeric pairs checked for correct peak assignment?	☒		☒		
6. Standards traceability properly documented?	☒		☒		
7. Manual integrations documented and checked?	☒		☒		
8. Do the Internal Standards meet criteria for %D against ICAL?	☒		☒		

1st Level Reviewer:  Date: 8/28/10

2nd Level Reviewer:  Date: 8/31/10

Injection Log

00112325

Directory: C:\HPCHEM\1\DATA\082810B.B

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	B9884.d	1.	RINSE		28 Aug 2010 14:45
2	2	B9885.d	1.	DFTPP-312672,,		28 Aug 2010 15:04
3	3	B9886.d	1.	CCV-297473,,HSL080	081710P 102310E	28 Aug 2010 15:15
4	4	B9887.d	1.	CCV-297474,,AP9080	081710P 102310E	28 Aug 2010 15:35
5	5	B9888.d	1.	mb280-27768_1-a	27768 HA	28 Aug 2010 15:56
6	6	B9889.d	1.	lcs280-27768_2-a	27768 HA	28 Aug 2010 16:16
7	7	B9890.d	1.	280-6168-a-1-f	27768 HA	28 Aug 2010 16:37
8	8	B9891.d	1.	280-6168-a-1-gms	27768 HA	28 Aug 2010 16:57
9	9	B9892.d	1.	280-6168-a-1-hmsd	27768 HA	28 Aug 2010 17:18
10	10	B9893.d	1.	280-6168-b-2-c	27768 HA	28 Aug 2010 17:38
11	11	B9894.d	1.	280-6168-a-3-f	27768 HA	28 Aug 2010 17:58
12	12	B9895.d	1.	280-6168-a-4-f	27768 HA	28 Aug 2010 18:19
13	13	B9896.d	1.	280-6168-b-5-a	27768 HA	28 Aug 2010 18:39
14	14	B9897.d	1.	280-6168-a-6-f	27768 HA	28 Aug 2010 19:00
15	15	B9898.d	1.	280-6285-a-1-a	27768 HA	28 Aug 2010 19:20
16	16	B9899.d	1.	mb280-28094_1-a	28094 HA	28 Aug 2010 20:11
17	17	B9900.d	1.	lcs280-28094_2-a	28094 HA	28 Aug 2010 20:32
18	18	B9901.d	1.	lcsd280-28094_3-a	28094 HA	28 Aug 2010 20:52
19	19	B9902.d	1.	280-5988-f-1-a	28094 HA	28 Aug 2010 21:13
20	20	B9903.d	1.	280-5988-d-2-a	28094 HA	28 Aug 2010 21:33
21	21	B9904.d	1.	280-6075-b-6-a	28094 HA	28 Aug 2010 21:53
22	22	B9905.d	1.	280-6033-c-3-a	28094 HA	28 Aug 2010 22:14
23	23	B9906.d	1.	280-6033-g-4-a	28094 HA	28 Aug 2010 22:34
24	24	B9907.d	1.	280-6033-f-5-a	28094 HA	28 Aug 2010 22:54
25	25	B9908.d	1.	280-6033-d-6-a	28094 HA	28 Aug 2010 23:14
26	26	B9909.d	1.	280-6033-d-7-a	28094 HA	28 Aug 2010 23:35
27	27	B9910.d	1.	280-6033-m-8-a	28094 HA	28 Aug 2010 23:55
28	28	B9911.d	1.	280-6033-n-8-ams	28094 HA	29 Aug 2010 00:15
29	29	B9912.d	1.	280-6033-o-8-amsd	28094 HA	29 Aug 2010 00:35
30	30	B9913.d	1.	280-6033-d-9-a	28094 HA	29 Aug 2010 00:56
31	31	B9914.d	1.	280-6162-b-10-a	28094 HA	29 Aug 2010 01:16
32	32	B9915.d	1.	280-6204-b-10-a	28094 HA	29 Aug 2010 01:36
33	98	B9916.d	1.	RINSE		29 Aug 2010 01:56
34	99	B9917.d	1.	RINSE		29 Aug 2010 02:16
35	100	B9918.d	1.	RINSE		29 Aug 2010 02:37
36	98	B9919.d	1.	RINSE		29 Aug 2010 02:57
37	99	B9920.d	1.	RINSE		29 Aug 2010 03:17
38	100	B9921.d	1.	RINSE		29 Aug 2010 03:37
39	40	B9922.d	1.	6222-1,10,SCREEN		28 Aug 2010 19:51

Data File : C:\HPCHEM\1\DATA\082810B.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 3:04 pm

Operator: TINKHAMS

Sample : DFTPP-312672,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 15:12 2010

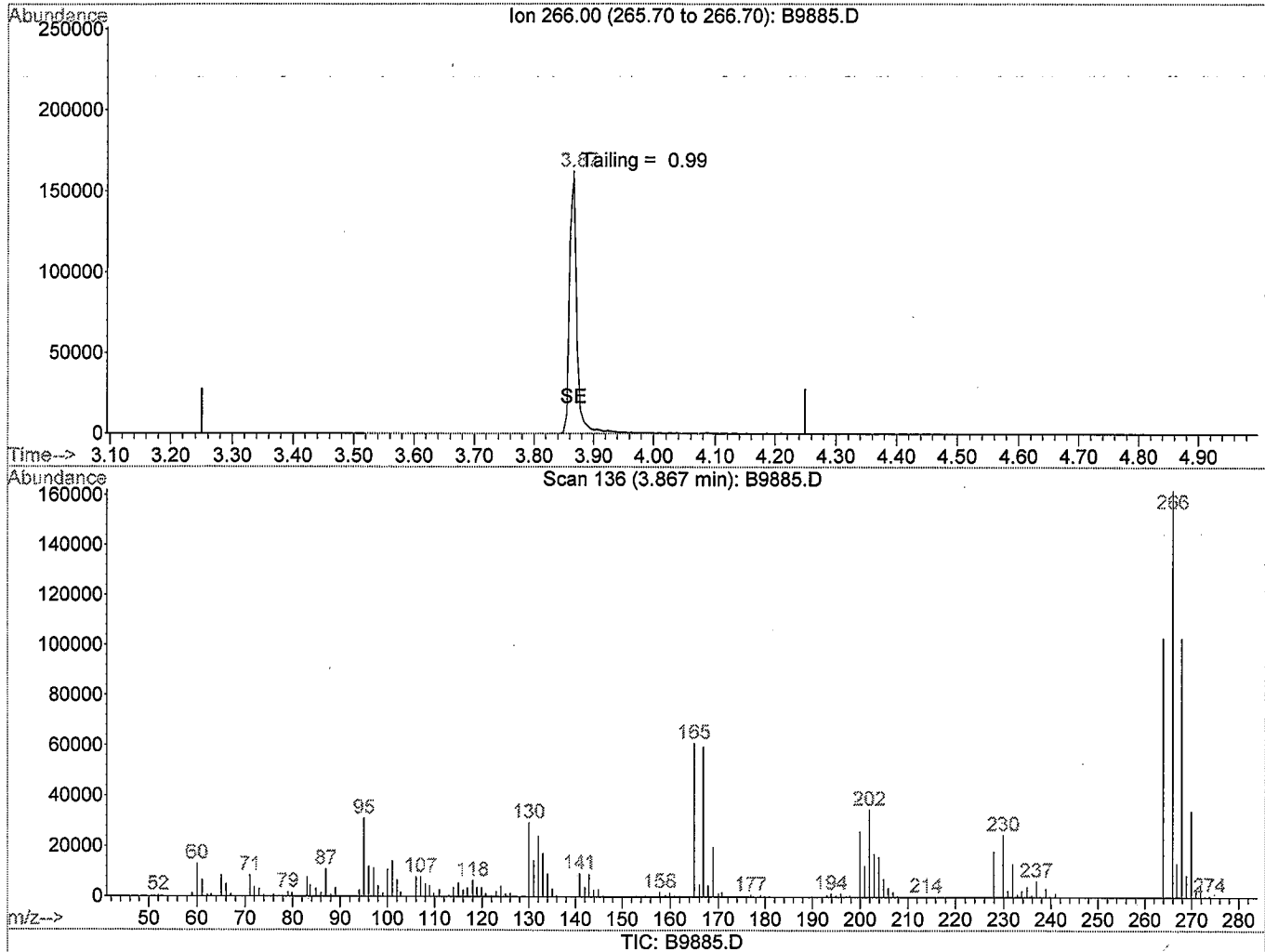
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(1) Pentachlorophenol (Tailing<5)

3.87min 0.00 m

response 481874

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\082810B.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 3:04 pm

Operator: TINKHAMS

Sample : DFTPP-312672,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 15:12 2010

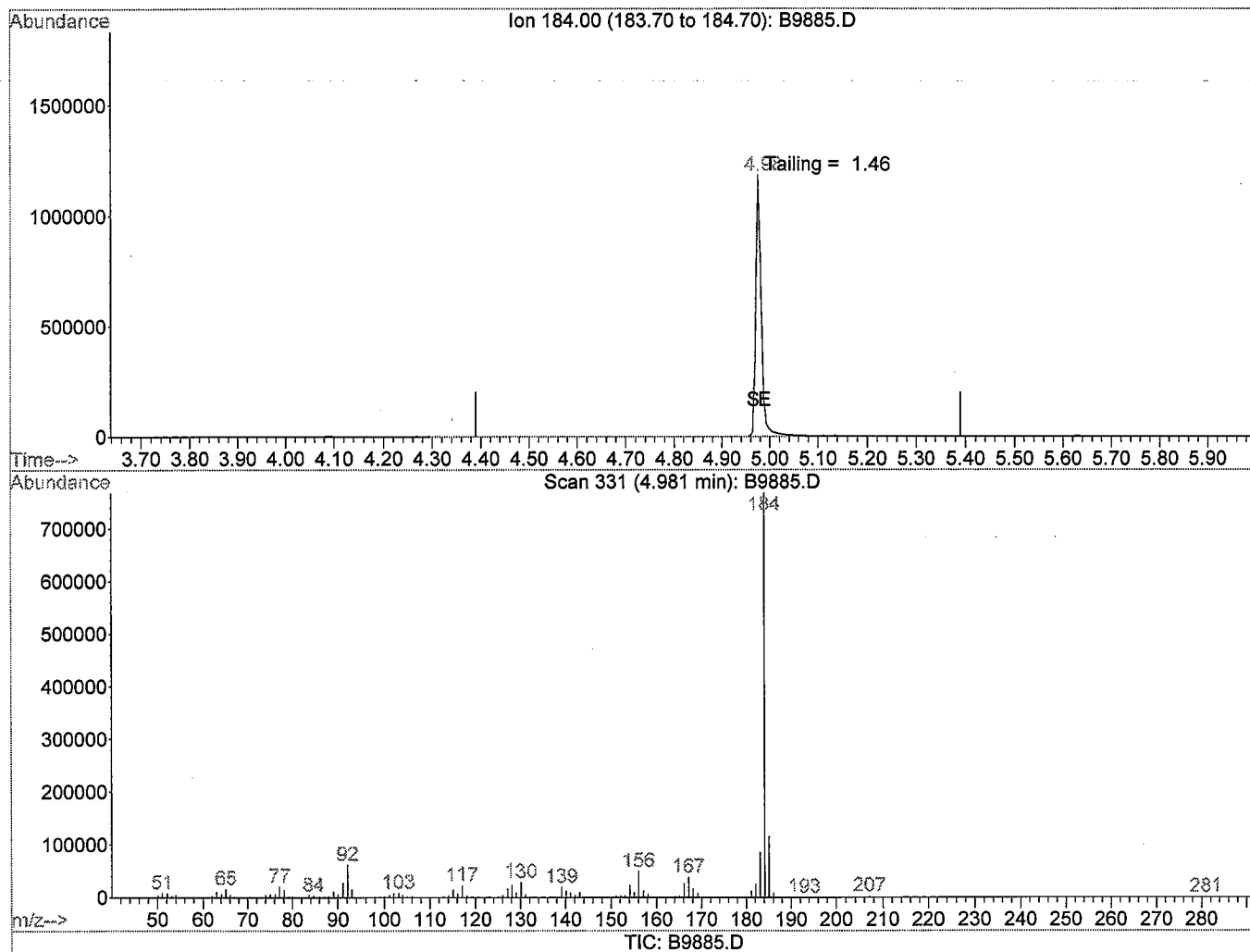
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(2) Benzidine (Tailing<3)

4.98min 0.00 m

response 2124390

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\082810B.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 3:04 pm

Operator: TINKHAMS

Sample : DFTPP-312672,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 15:12 2010

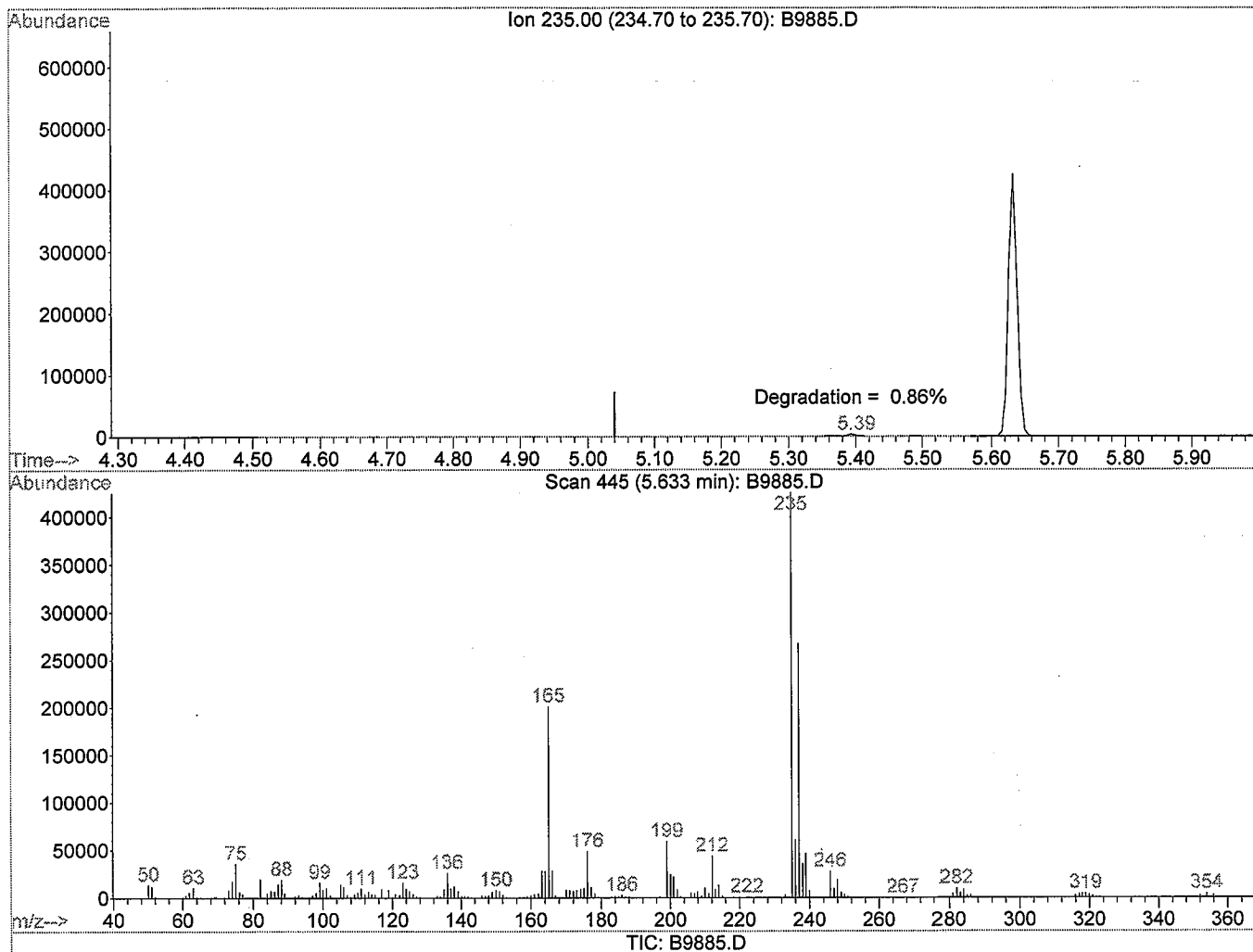
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(3) 4,4'-DDT (Degradation<20%)

5.63min 0.00

response 3885635

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Instrument ID and Date: Inst.D 08/10/10 MSLCalibration Event 2483 Batch 26451Check Method Used: Analysis ☒ 625 ☒ 8270 ☐ Other SV☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOAVOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Initial Calibration				
1. BFB/QFTPD meets criteria?	☒	☐	☒	
2. ICAL date and instrument ID verified?	☒	☐	☒	
3. Does the Form VI match the data in the Target source method?	☒	☐	☒	
4. Sufficient number of calibration points used?	☒	☐	☒	
5. Reasons for removal of points documented?	☒	☐	☒	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	☒	☐	☒	
7. If RRF used for ICAL, were all compounds within 15% RSD?	☒	☐	☒	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	☒	☐	☒	
9. Isomeric pairs checked for correct peak assignment?	☒	☐	☒	
10. Data checked for detector saturation?	☒	☐	☒	
11. Standards traceability properly documented?	☒	☐	☒	
12. Manual integrations documented and checked?	☒	☐	☒	
13. 2 nd source ICV recovery 75-125% ($\pm 25\%$ drift) for DoD projects, 65-135% ($\pm 35\%$, or $\pm 55\%$ of expected for poor performers) for non-DoD? Exceptions noted in comment section.	☒	☐	☒	

1st Level Reviewer: MADate: 8/11/102nd Level Reviewer: SADate: 8/11/10

Revision 2.3

04/30/2010

G:\QA\EditForms\GCMS ICAL

00112329

Injection Log

00112330

Directory: C:\HPCHEM\1\DATA\081010.B

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	D7257.D	1.	RINSE		10 Aug 2010 08:15
2	2	D7258.D	1.	DFTPP-285743,,MS-DFTPP00025		10 Aug 2010 08:24
3	3	D7259.D	1.	IC-236457,,HSL200	P070210;E102310	10 Aug 2010 08:35
4	4	D7260.D	1.	IC-236479,,HSL160	P070210;E102310	10 Aug 2010 08:53
5	5	D7261.D	1.	IC-236480,,HSL120	P070210;E102310	10 Aug 2010 09:12
6	6	D7262.D	1.	IC-236481,,HSL080 -ICIS	P070210;E102310	10 Aug 2010 09:55
7	7	D7263.D	1.	IC-236483,,HSL050	P070210;E102310	10 Aug 2010 10:14
8	8	D7264.D	1.	IC-236484,,HSL020	P070210;E102310	10 Aug 2010 10:33
9	9	D7265.D	1.	IC-236485,,HSL010	P070210;E102310	10 Aug 2010 10:51
10	10	D7266.D	1.	IC-236486,,HSL004	P070210;E102310	10 Aug 2010 11:10
11	11	D7267.D	1.	ICV-268664,,HSLSSV080	P070210;E102310	10 Aug 2010 11:28
12	12	D7268.D	1.	ICV-236488,,BEN-SSV	P070210;E102310	10 Aug 2010 11:47
13	13	D7269.D	1.	ICV-010361,,FAM-SSV	P070210;E102310	10 Aug 2010 13:00
14	14	D7270.D	1.	IC-235240,,AP9-200	P070210;E102310	10 Aug 2010 13:19
15	15	D7271.D	1.	IC-235252,,AP9-160	P070210;E102310	10 Aug 2010 13:37
16	16	D7272.D	1.	IC-235253,,AP9-120	P070210;E102310	10 Aug 2010 13:56
17	17	D7273.D	1.	ICIS-235254,,AP9-080	P070210;E102310	10 Aug 2010 14:26
18	18	D7274.D	1.	IC-235255,,AP9-050	P070210;E102310	10 Aug 2010 14:45
19	19	D7275.D	1.	IC-235257,,AP9-020	P070210;E102310	10 Aug 2010 15:03
20	20	D7276.D	1.	IC-235262,,AP9-010	P070210;E102310	10 Aug 2010 15:22
21	21	D7277.D	1.	ICV-235296,,AP9SSV1	P070210;E102310	10 Aug 2010 15:41
22	22	D7278.D	1.	ICV-235303,,AP9SSV2	P070210;E102310	10 Aug 2010 15:59

Data File : C:\HPCHEM\1\DATA\081010.B\D7258.D

Vial: 2

Acq On : 10 Aug 2010 8:24 am

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 10 13:34 2010

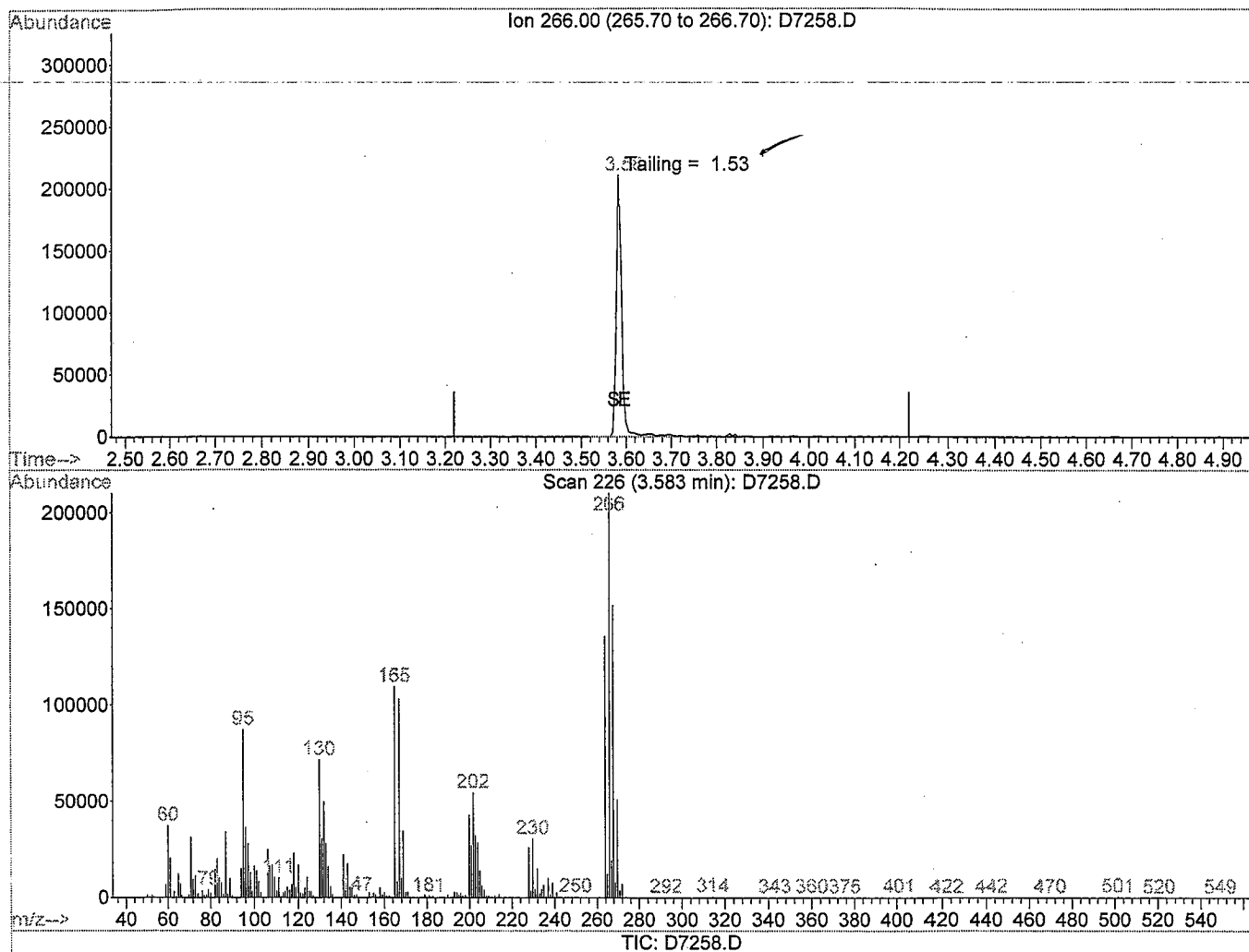
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Mon Jul 12 20:26:01 2010

Response via : Single Level Calibration



(1) Pentachlorophenol (Tailing<5)

3.58min 0.00 m

response 1589785

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081010.B\D7258.D

Vial: 2

Acq On : 10 Aug 2010 8:24 am

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 10 13:34 2010

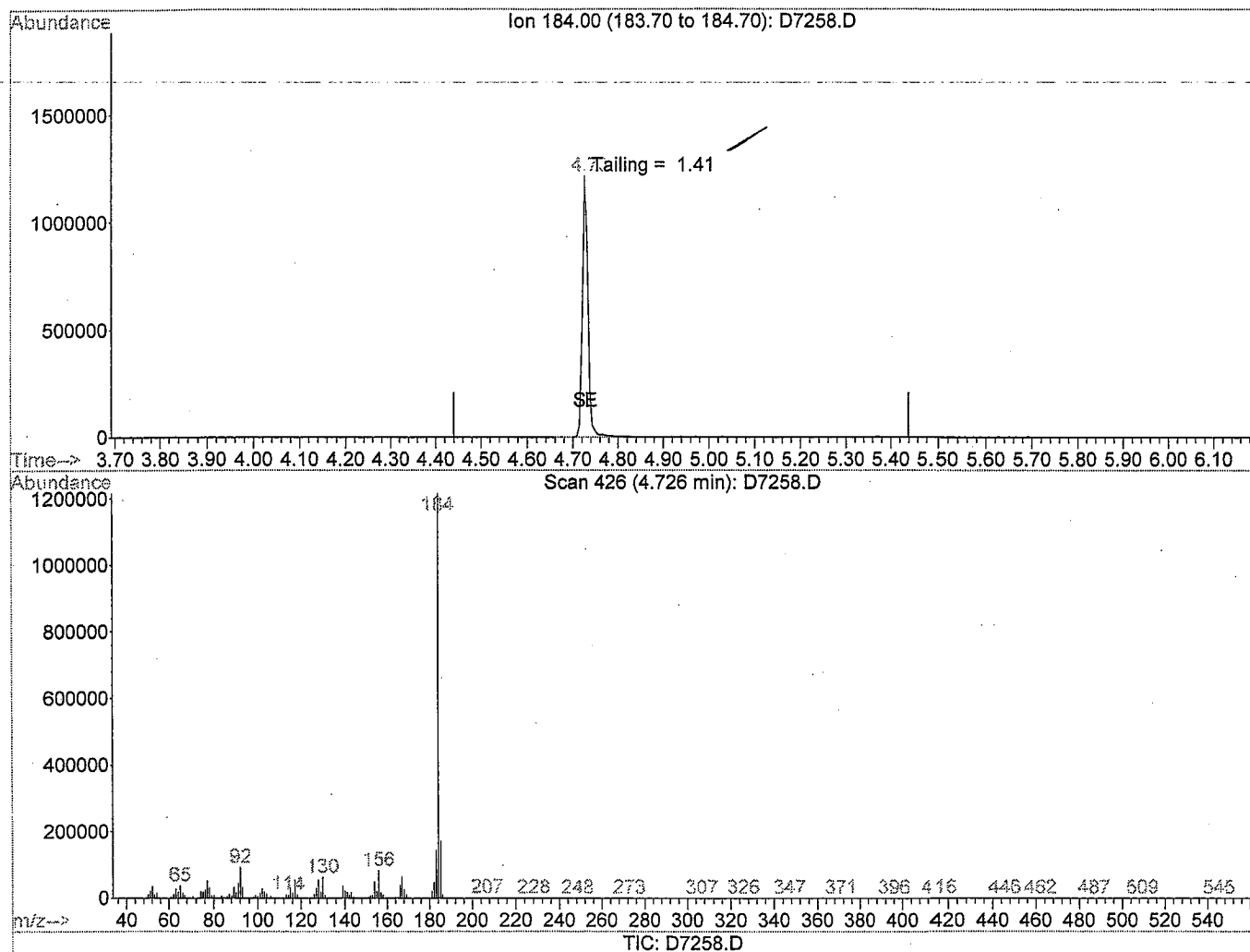
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Mon Jul 12 20:26:01 2010

Response via : Single Level Calibration



(2) Benzidine (Tailing<3)

4.73min 0.00 m

response 9318954

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081010.B\D7258.D

Vial: 2

Acq On : 10 Aug 2010 8:24 am

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 10 13:34 2010

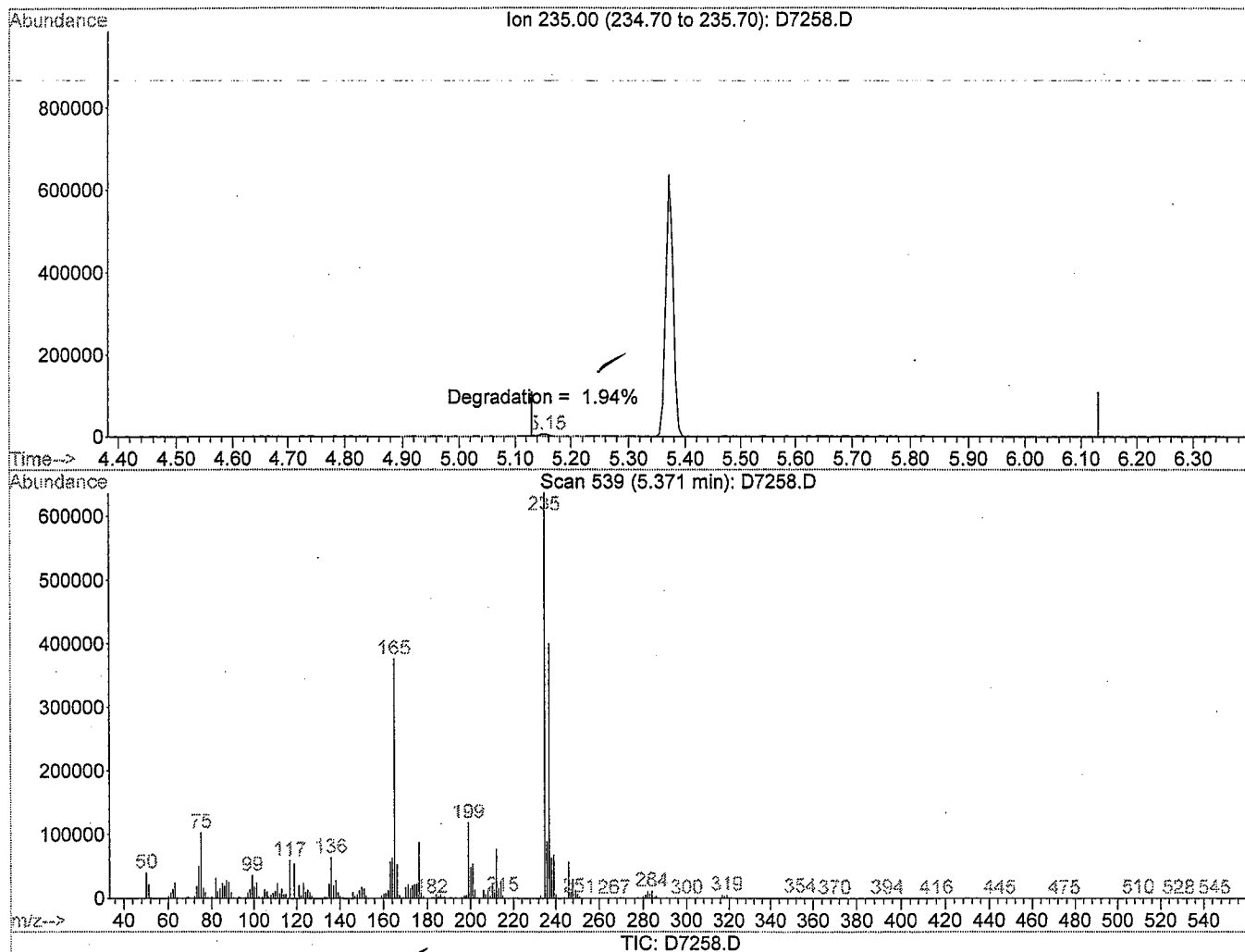
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Mon Jul 12 20:26:01 2010

Response via : Single Level Calibration



(3) 4,4'-DDT (Degradation<20%)

5.37min 0.00 m

response 4520744

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS Initial Calibration Review Checklist

Instrument ID and Date: Test. D 08/01/0a AP9Calibration Event 2484 Batch 26452Check Method Used: Analysis ☐ 625 ☒ 8270 ☐ Other SV☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOAVOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No	N/A	
Initial Calibration				
1. BFB/DFTPP meets criteria?	/			
2. ICAL date and instrument ID verified?	/			
3. Does the Form VI match the data in the Target source method?	/			
4. Sufficient number of calibration points used?	/			
5. Reasons for removal of points documented?	/			Some points < RL removed ★
6. %RSD or correlation coefficient within method limits?	/			List all exceptions below (cpd & RSD)
7. If RRF used for ICAL, were all compounds within 15% RSD?	/			
8. Response factors meet criteria?	/			
9. Isomeric pairs checked for correct peak assignment?	/			
10. Data checked for detector saturation?	/			
11. Standards traceability properly documented?	/			
12. Manual integrations documented and checked?	/			
13. 2 nd source ICV recovery 75-125% ($\pm 25\%$ drift) for DoD projects, 65-135% ($\pm 35\%$, or $\pm 55\%$ of expected for poor performers) for non-DoD? Exceptions noted in comment section.	/			

1st Level Reviewer: MMDate: 8/11/02nd Level Reviewer: (81)Date: 8/11/10

★ Methapyrilene high point = 160 ng/mL

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	D7257.D	1.	RINSE		10 Aug 2010 08:15
2	2	D7258.D	1.	DFTPP-285743,,MS-DFTPP00025		10 Aug 2010 08:24
3	3	D7259.D	1.	IC-236457,,HSL200	P070210;E102310	10 Aug 2010 08:35
4	4	D7260.D	1.	IC-236479,,HSL160	P070210;E102310	10 Aug 2010 08:53
5	5	D7261.D	1.	IC-236480,,HSL120	P070210;E102310	10 Aug 2010 09:12
6	6	D7262.D	1.	IC-236481,,HSL080 <i>-ICIS</i>	P070210;E102310	10 Aug 2010 09:55
7	7	D7263.D	1.	IC-236483,,HSL050	P070210;E102310	10 Aug 2010 10:14
8	8	D7264.D	1.	IC-236484,,HSL020	P070210;E102310	10 Aug 2010 10:33
9	9	D7265.D	1.	IC-236485,,HSL010	P070210;E102310	10 Aug 2010 10:51
10	10	D7266.D	1.	IC-236486,,HSL004	P070210;E102310	10 Aug 2010 11:10
11	11	D7267.D	1.	ICV-268664,,HSLSSV080	P070210;E102310	10 Aug 2010 11:28
12	12	D7268.D	1.	ICV-236488,,BEN-SSV	P070210;E102310	10 Aug 2010 11:47
13	13	D7269.D	1.	ICV-010361,,FAM-SSV	P070210;E102310	10 Aug 2010 13:00
14	14	D7270.D	1.	IC-235240,,AP9-200	P070210;E102310	10 Aug 2010 13:19
15	15	D7271.D	1.	IC-235252,,AP9-160	P070210;E102310	10 Aug 2010 13:37
16	16	D7272.D	1.	IC-235253,,AP9-120	P070210;E102310	10 Aug 2010 13:56
17	17	D7273.D	1.	ICIS-235254,,AP9-080	P070210;E102310	10 Aug 2010 14:26
18	18	D7274.D	1.	IC-235255,,AP9-050	P070210;E102310	10 Aug 2010 14:45
19	19	D7275.D	1.	IC-235257,,AP9-020	P070210;E102310	10 Aug 2010 15:03
20	20	D7276.D	1.	IC-235262,,AP9-010	P070210;E102310	10 Aug 2010 15:22
21	21	D7277.D	1.	ICV-235296,,AP9SSV1	P070210;E102310	10 Aug 2010 15:41
22	22	D7278.D	1.	ICV-235303,,AP9SSV2	P070210;E102310	10 Aug 2010 15:59

Data File : C:\HPCHEM\1\DATA\081010.B\D7258.D

Vial: 2

Acq On : 10 Aug 2010 8:24 am

Operator: hoffmanm

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 10 13:34 2010

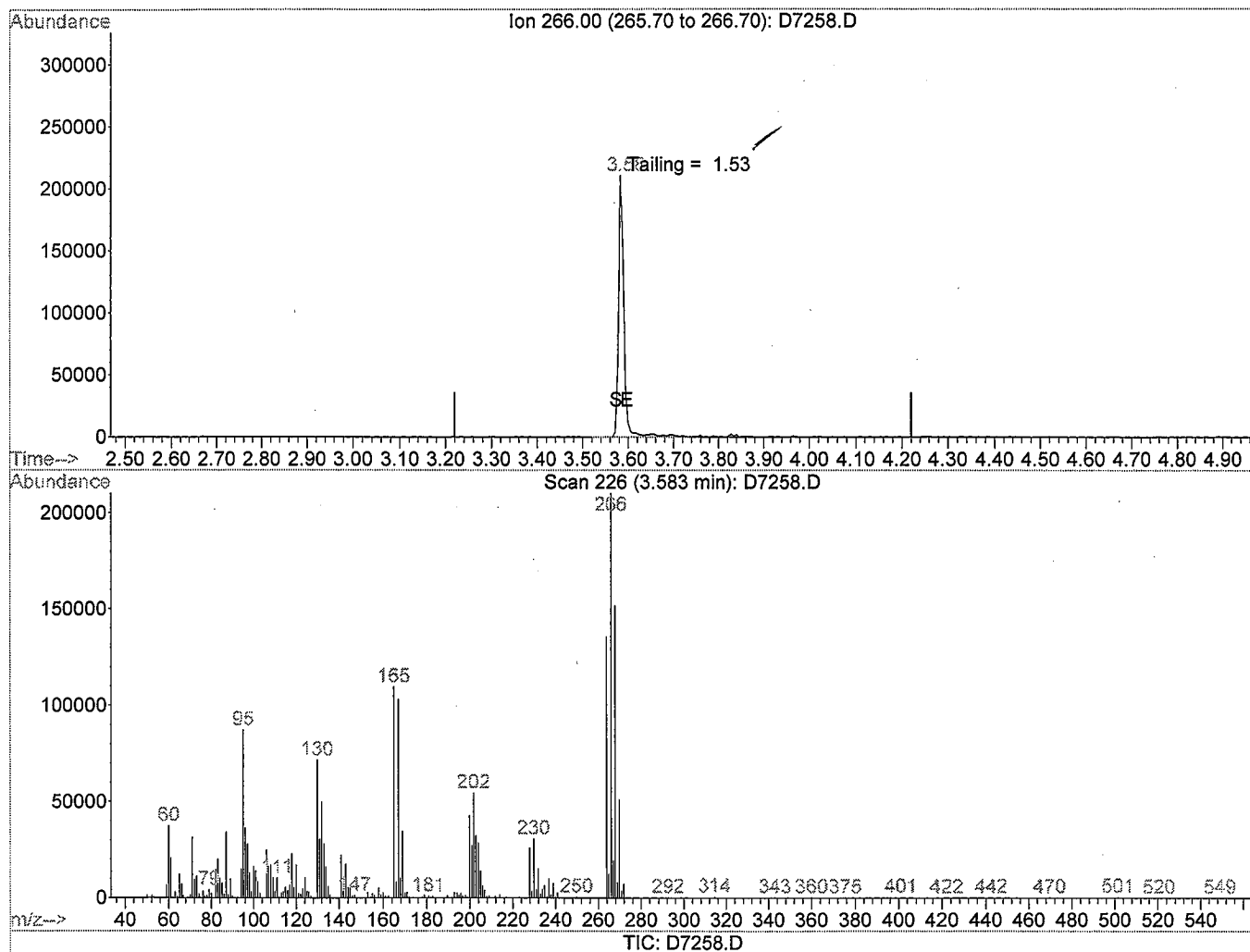
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Mon Jul 12 20:26:01 2010

Response via : Single Level Calibration



(1) Pentachlorophenol (Tailing<5) ✓

3.58min 0.00 m

response 1589785

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081010.B\D7258.D

Vial: 2

Acq On : 10 Aug 2010 8:24 am

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 10 13:34 2010

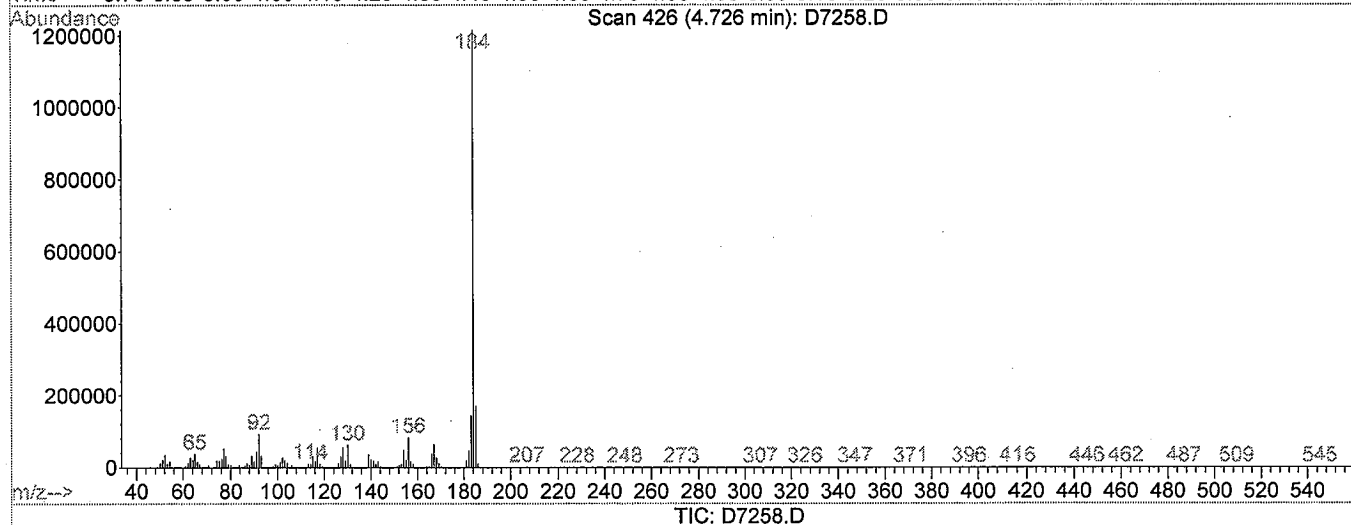
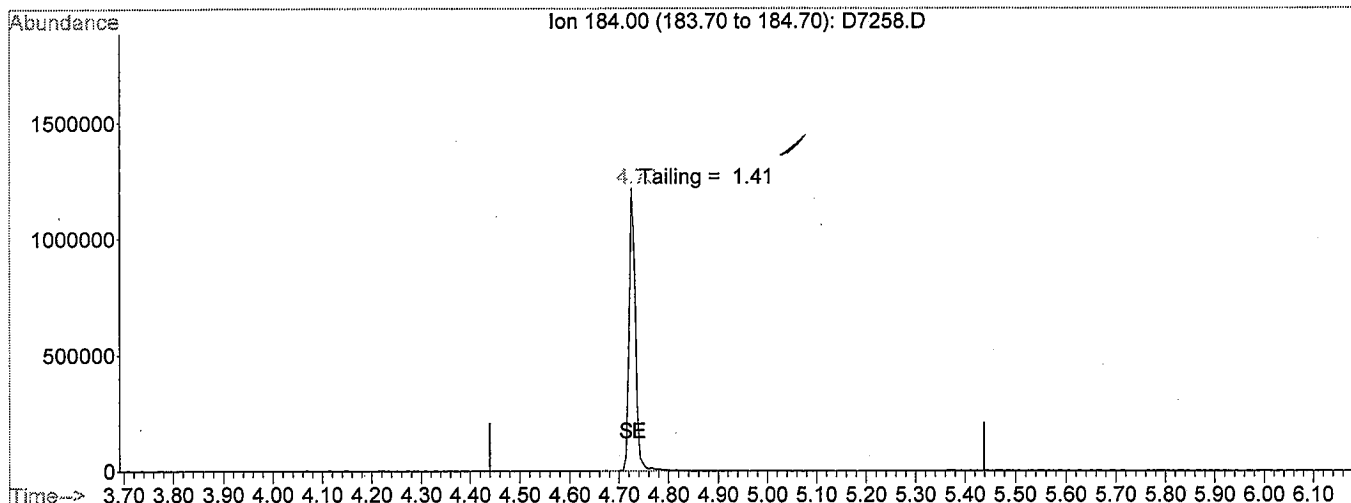
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Mon Jul 12 20:26:01 2010

Response via : Single Level Calibration



TIC: D7258.D

(2) Benzidine (Tailing<3)

4.73min 0.00 m

response 9318954

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\081010.B\D7258.D

Vial: 2

Acq On : 10 Aug 2010 8:24 am

Operator: hoffmann

Sample : DFTPP-285743,,MS-DFTPP00025

Inst : GC/MS D

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 10 13:34 2010

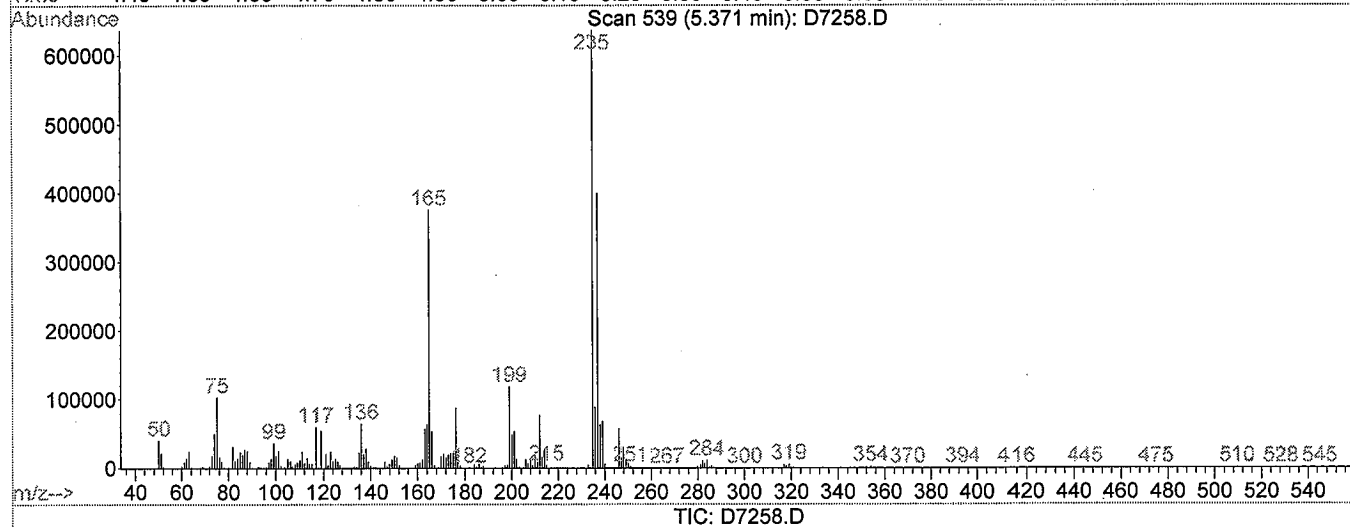
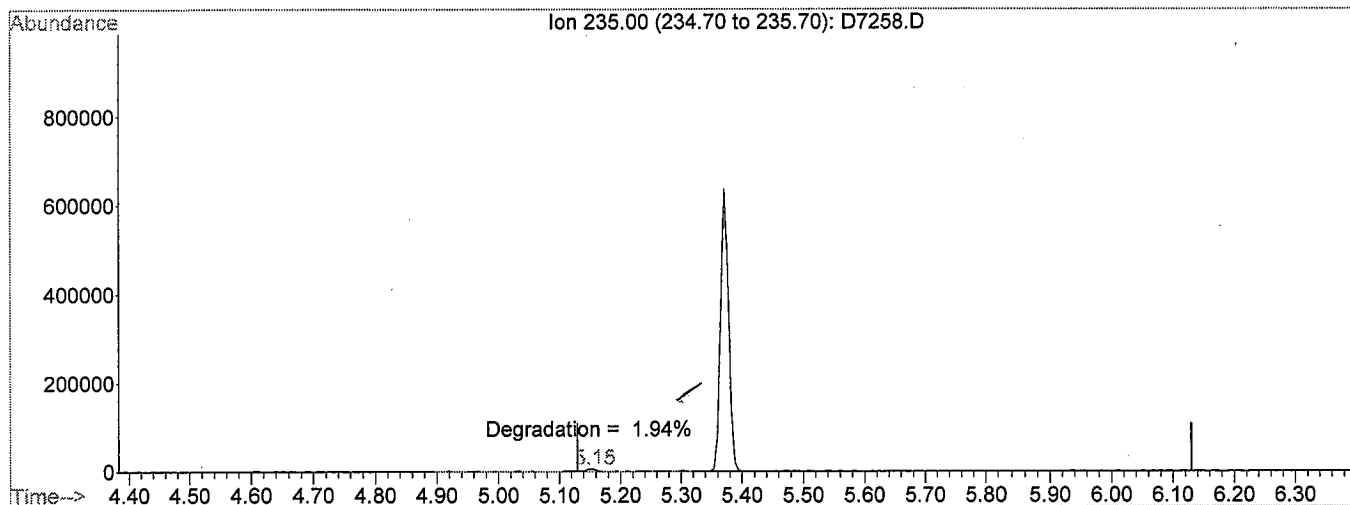
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Mon Jul 12 20:26:01 2010

Response via : Single Level Calibration



(3) 4,4'-DDT (Degradation<20%)

5.37min 0.00 m

response 4520744

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Instrument ID and Date: **B AP9 082810**
 Calibration Event **2713** Batch **280-29057**

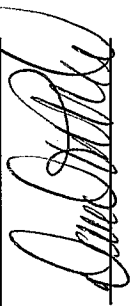
 Check Method Used: Analysis ☐ 625 ☒ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA _____

 VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No		
Initial Calibration				
1. BFB/PP/TPP meets criteria?	X			
2. ICAL date and instrument ID verified?	X			
3. Does the Form VI match the data in the Target source method?	X			
4. Sufficient number of calibration points used?	X			
5. Reasons for removal of points documented?	X			Some points < RL removed
6. %RSD or correlation coefficient within method limits?	X			
7. If RRF used for ICAL, were all compounds within 15% RSD?				
8. Response factors meet criteria?	X		X	
9. Isomeric pairs checked for correct peak assignment?	X			
10. Data checked for detector saturation?	X			
11. Standards traceability properly documented?	X			
12. Manual integrations documented and checked?	X			
13. 2 nd source ICV recovery 75-125% ($\pm 25\%$ drift) for DoD projects, 65-135% ($\pm 35\%$) of expected for poor performers) for non-DoD? Exceptions noted in comment section.	X			

 1st Level Reviewer:  Date: 08/31/10

 2nd Level Reviewer:  Date: 8/31/10

Handwritten signature
8/31/10

Injection Log

Directory: C:\HPCHEM\1\DATA\082810.B

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	B9884.d	1.	RINSE		28 Aug 2010 07:23
2	2	B9885.d	1.	DFTPP-283742,,		28 Aug 2010 07:33
3	3	B9886.d	1.	IC-235240,,AP9200	070210P 102310E	28 Aug 2010 07:46
4	4	B9887.d	1.	IC-235252,,AP9160	070210P 102310E	28 Aug 2010 08:05
5	5	B9888.d	1.	IC-235253,,AP9120	070210P 102310E	28 Aug 2010 08:24
6	6	B9889.d	1.	ICIS-235254,,AP9080	070210P 102310E	28 Aug 2010 08:43
7	7	B9890.d	1.	IC-235255,,AP9050	070210P 102310E	28 Aug 2010 09:02
8	8	B9891.d	1.	IC-235257,,AP9020	070210P 102310E	28 Aug 2010 09:21
9	9	B9892.d	1.	IC-235262,,AP9010	070210P 102310E	28 Aug 2010 09:40
10	10	B9893.d	1.	ICV-235296,,AP9SSV1	070210P 102310E	28 Aug 2010 09:59
11	11	B9894.d	1.	ICV-235303,,AP9SSV2	070210P 102310E	28 Aug 2010 10:19
12	12	B9895.d	1.	IC-236457,,HSL200	070210P 102310E	28 Aug 2010 10:39
13	13	B9896.d	1.	IC-236479,,HSL160	070210P 102310E	28 Aug 2010 10:59
14	14	B9897.d	1.	IC-236480,,HSL120	070210P 102310E	28 Aug 2010 11:19
15	15	B9898.d	1.	ICIS-236481,,HSL080	070210P 102310E	28 Aug 2010 11:40
16	16	B9899.d	1.	IC-236483,,HSL050	070210P 102310E	28 Aug 2010 12:00
17	17	B9900.d	1.	IC-236484,,HSL020	070210P 102310E	28 Aug 2010 12:20
18	18	B9901.d	1.	IC-236485,,HSL010	070210P 102310E	28 Aug 2010 12:41
19	19	B9902.d	1.	IC-236486,,HSL004	070210P 102310E	28 Aug 2010 13:01
20	20	B9903.d	1.	ICV-316307,,HSLSSV080	070210P 102310E	28 Aug 2010 13:22
21	21	B9904.d	1.	ICV-236488,,BENZSSV	070210P 102310E	28 Aug 2010 13:42
22	22	B9905.d	1.	ICV-10361,,FAMSSV	070210P 102310E	28 Aug 2010 14:03

Diluent Solvent Lot # NACircle: SOP DV-MS-0011 (8270C/625) or DV-MS-0002 (PAH SIM) or DV-MS-0005 (PAH for CSLP)Daily Maintenance Performed: Done

Data File : C:\HPCHEM\1\DATA\082810.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 7:33 am

Operator: TINKHAMS

Sample : DFTPP-283742,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 7:45 2010

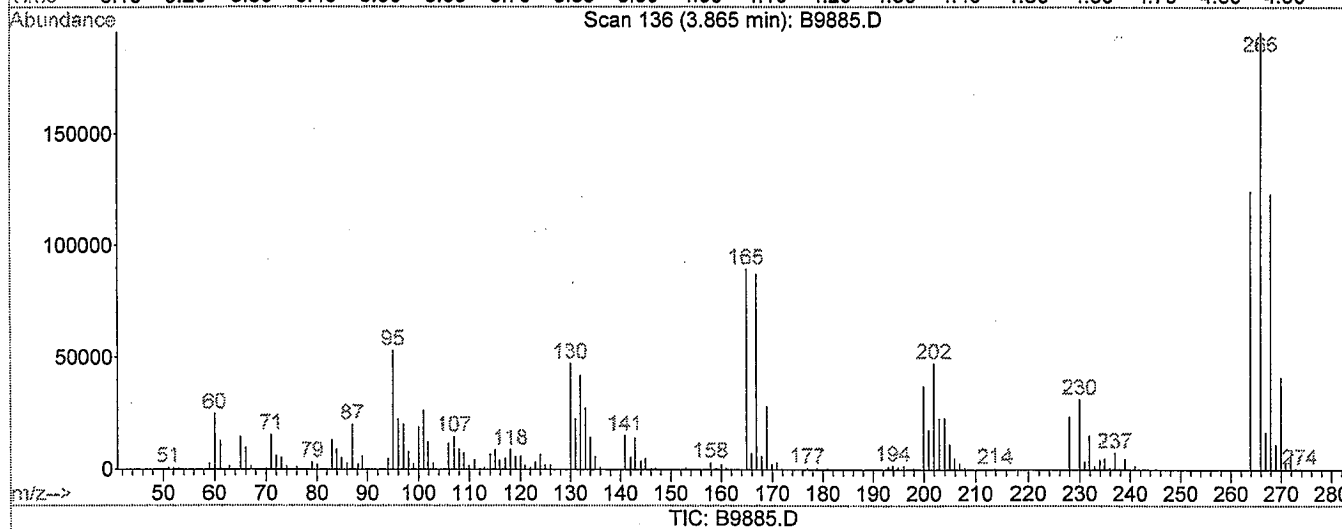
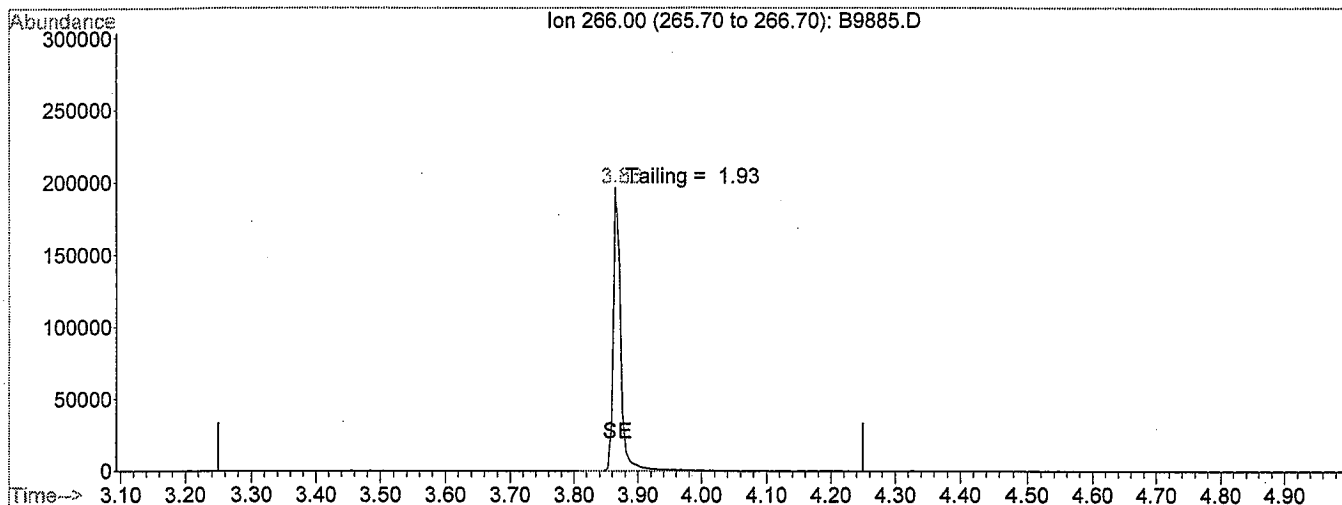
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(1) Pentachlorophenol (Tailing<5)

3.86min 0.00 m

response 1518306

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\082810.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 7:33 am

Operator: TINKHAMS

Sample : DFTPP-283742,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 7:45 2010

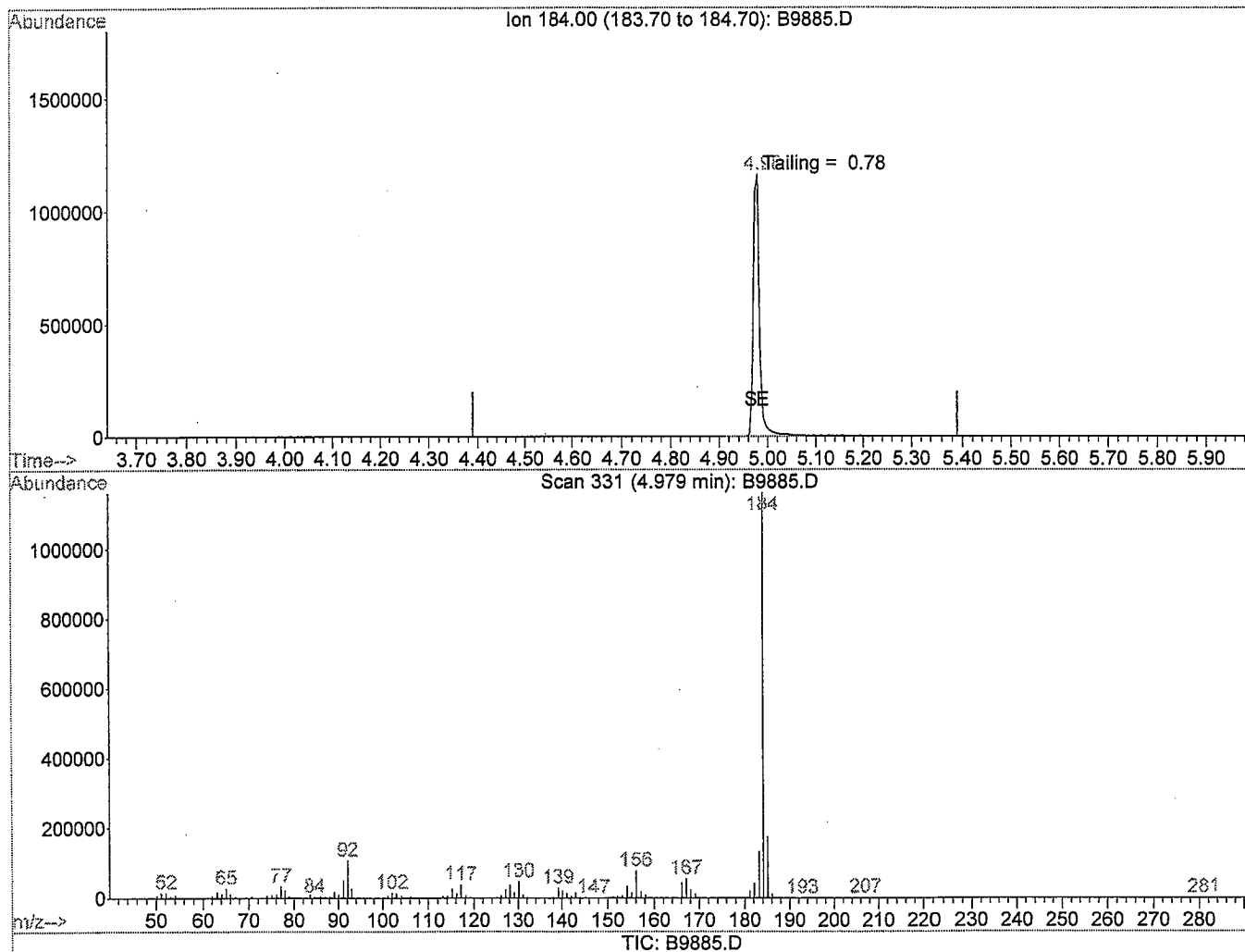
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(2) Benzidine (Tailing<3)

4.98min 0.00

response 10409008

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\082810.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 7:33 am

Operator: TINKHAMS

Sample : DFTPP-283742,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 7:45 2010

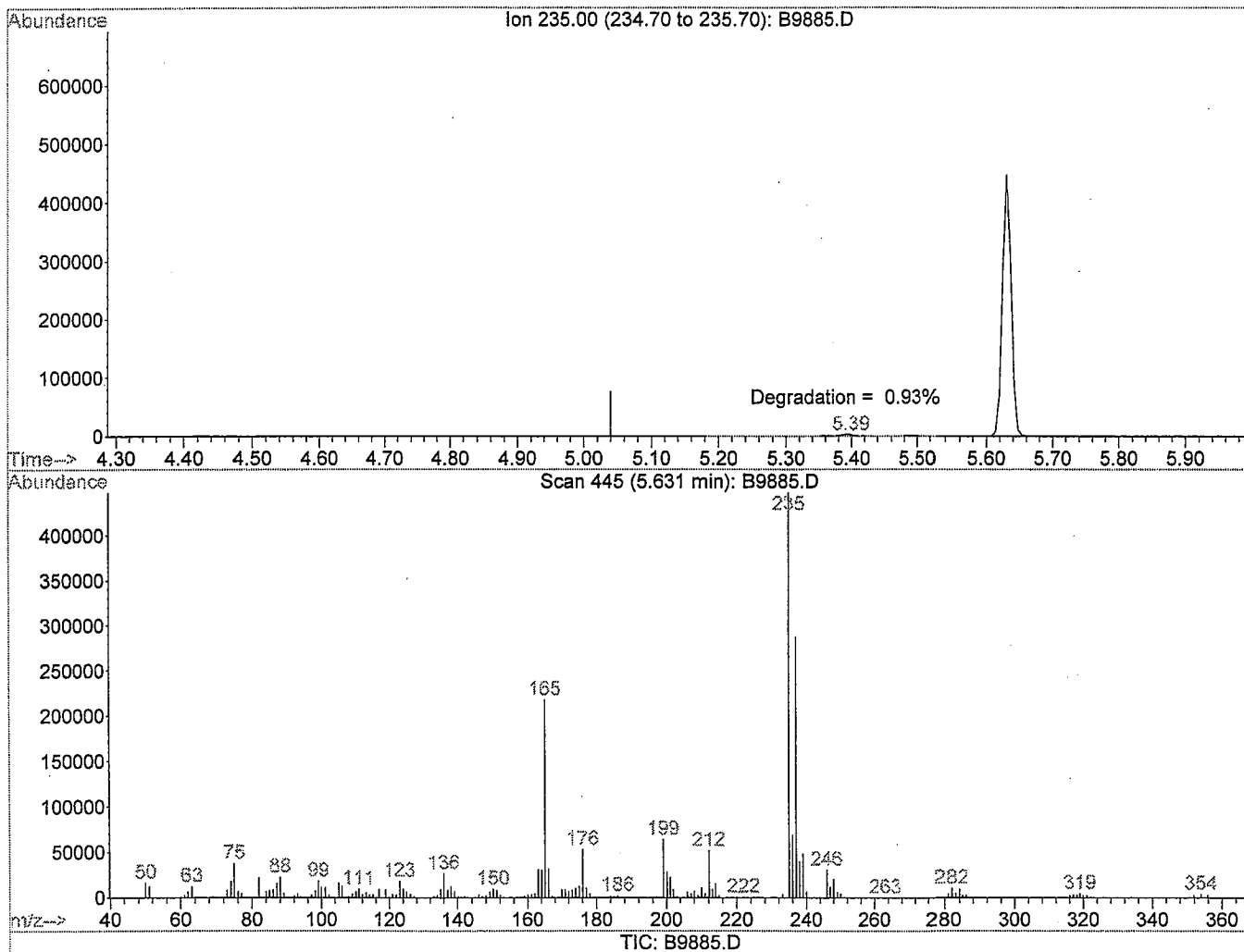
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(3) 4,4'-DDT (Degradation<20%)

5.63min 0.00

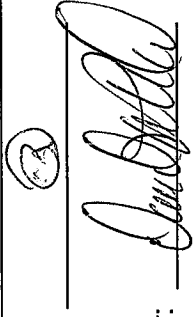
response 4179389

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

GC/MS Initial Calibration Review Checklist

Instrument ID and Date: **B HSL 082810a**Calibration Event **2729** Batch **280-29075**Check Method Used: Analysis ☒ 625 ☐ 8270 ☐ Other SV _____☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA _____VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Initial Calibration	Review Items	Level 1		Level 2	Comments
		Yes	No		
1. BFB/FTPB meets criteria?		X			
2. ICAL date and instrument ID verified?		X			
3. Does the Form VI match the data in the Target source method?		X			
4. Sufficient number of calibration points used?		X			
5. Reasons for removal of points documented?		X			Some points < RL removed
6. %RSD or correlation coefficient within method limits?		X			
7. If RRF used for ICAL, were all compounds within 15% RSD?				X	
8. Response factors meet criteria?		X			
9. Isomeric pairs checked for correct peak assignment?		X			
10. Data checked for detector saturation?		X			
11. Standards traceability properly documented?		X			
12. Manual integrations ~~documented~~ and checked?		X			
13. 2 nd source ICV recovery 75-125% ($\pm 25\%$ drift) for DoD projects, 65-135% ($\pm 35\%$, or $\pm 55\%$ of expected for poor performers) for non-DoD? Exceptions noted in comment section.		X			

1st Level Reviewer: 

Date: 08/31/10

2nd Level Reviewer: _____

Date: 8/31/10

Handwritten signature
28 Aug 2010

Injection Log

Directory: C:\HPCHEM\1\DATA\082810.B

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	B9884.d	1.	RINSE		28 Aug 2010 07:23
2	2	B9885.d	1.	DFTPP-283742,,		28 Aug 2010 07:33
3	3	B9886.d	1.	IC-235240,,AP9200	070210P 102310E	28 Aug 2010 07:46
4	4	B9887.d	1.	IC-235252,,AP9160	070210P 102310E	28 Aug 2010 08:05
5	5	B9888.d	1.	IC-235253,,AP9120	070210P 102310E	28 Aug 2010 08:24
6	6	B9889.d	1.	ICIS-235254,,AP9080	070210P 102310E	28 Aug 2010 08:43
7	7	B9890.d	1.	IC-235255,,AP9050	070210P 102310E	28 Aug 2010 09:02
8	8	B9891.d	1.	IC-235257,,AP9020	070210P 102310E	28 Aug 2010 09:21
9	9	B9892.d	1.	IC-235262,,AP9010	070210P 102310E	28 Aug 2010 09:40
10	10	B9893.d	1.	ICV-235296,,AP9SSV1	070210P 102310E	28 Aug 2010 09:59
11	11	B9894.d	1.	ICV-235303,,AP9SSV2	070210P 102310E	28 Aug 2010 10:19
12	12	B9895.d	1.	IC-236457,,HSL200	070210P 102310E	28 Aug 2010 10:39
13	13	B9896.d	1.	IC-236479,,HSL160	070210P 102310E	28 Aug 2010 10:59
14	14	B9897.d	1.	IC-236480,,HSL120	070210P 102310E	28 Aug 2010 11:19
15	15	B9898.d	1.	ICIS-236481,,HSL080	070210P 102310E	28 Aug 2010 11:40
16	16	B9899.d	1.	IC-236483,,HSL050	070210P 102310E	28 Aug 2010 12:00
17	17	B9900.d	1.	IC-236484,,HSL020	070210P 102310E	28 Aug 2010 12:20
18	18	B9901.d	1.	IC-236485,,HSL010	070210P 102310E	28 Aug 2010 12:41
19	19	B9902.d	1.	IC-236486,,HSL004	070210P 102310E	28 Aug 2010 13:01
20	20	B9903.d	1.	ICV-316307,,HSLSSV080	070210P 102310E	28 Aug 2010 13:22
21	21	B9904.d	1.	ICV-236488,,BENZSSV	070210P 102310E	28 Aug 2010 13:42
22	22	B9905.d	1.	ICV-10361,,FAMSSV	070210P 102310E	28 Aug 2010 14:03

Diluent Solvent Lot # WLACircle: SOP DV-MS-0011 (8270C/625) or DV-MS-0002 (PAH SIM) or DV-MS-0005 (PAH for CSLP)Daily Maintenance Performed: Done

Data File : C:\HPCHEM\1\DATA\082810.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 7:33 am

Operator: TINKHAMS

Sample : DFTPP-283742,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 7:45 2010

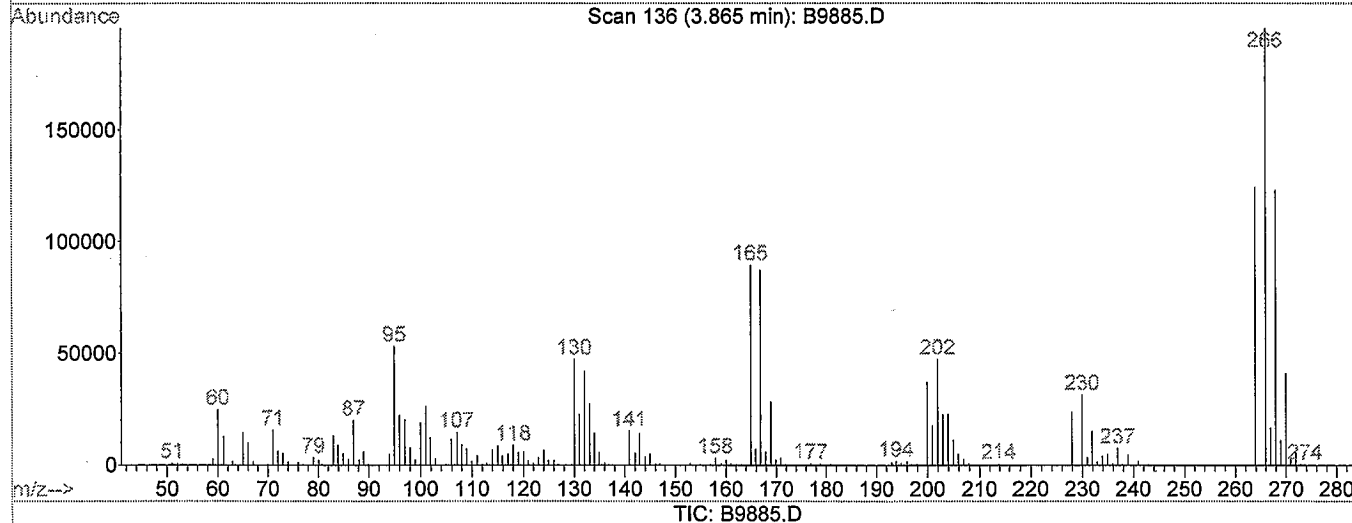
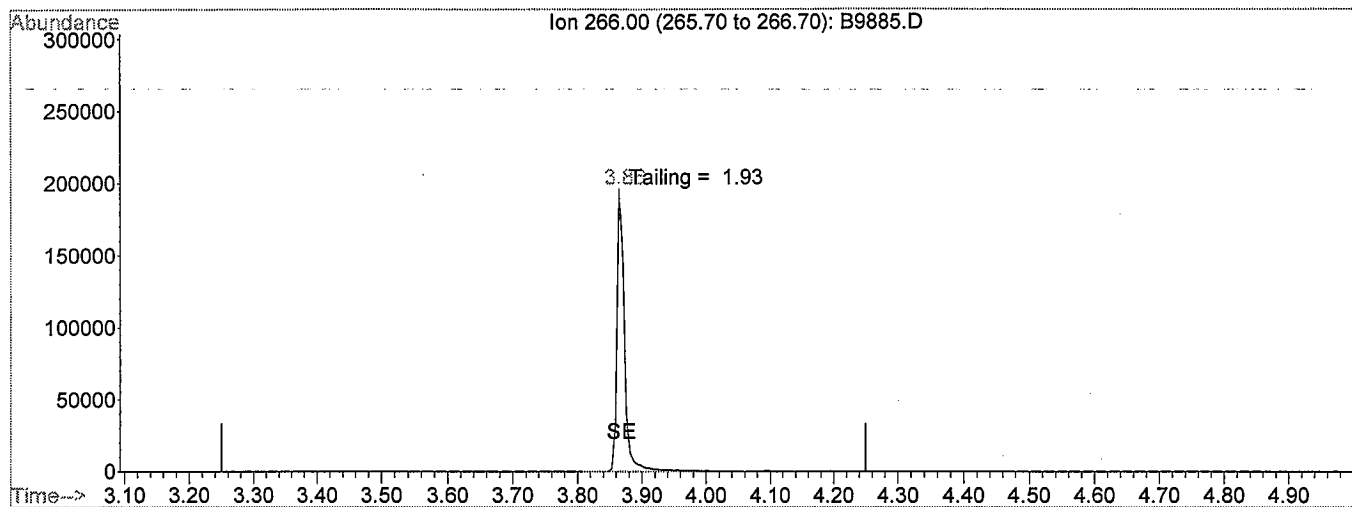
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(1) Pentachlorophenol (Tailing<5)

3.86min 0.00 m

response 1518306

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\082810.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 7:33 am

Operator: TINKHAMS

Sample : DFTPP-283742,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 7:45 2010

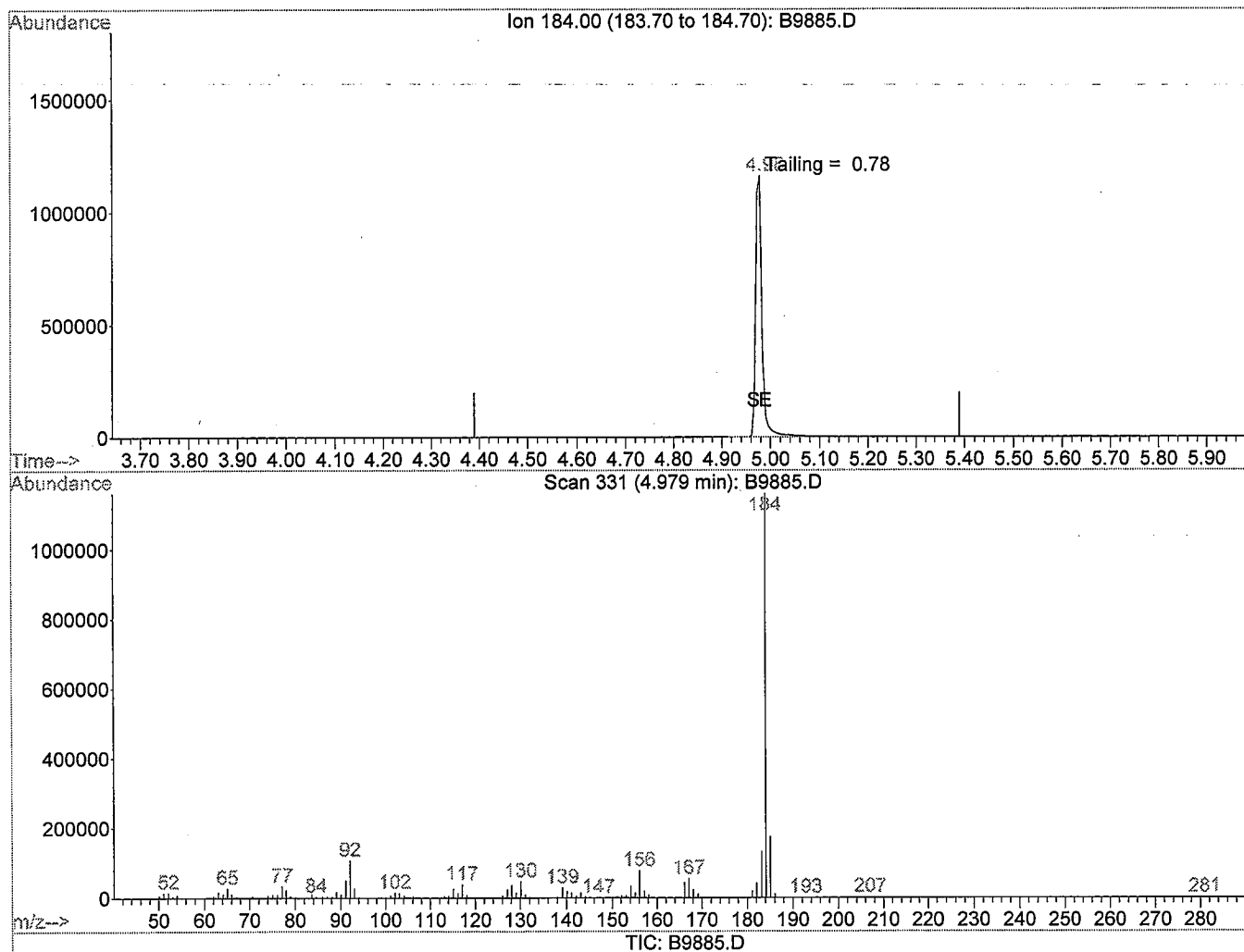
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(2) Benzidine (Tailing<3)

4.98min 0.00

response 10409008

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\082810.B\B9885.D

Vial: 2

Acq On : 28 Aug 2010 7:33 am

Operator: TINKHAMS

Sample : DFTPP-283742,,

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Aug 28 7:45 2010

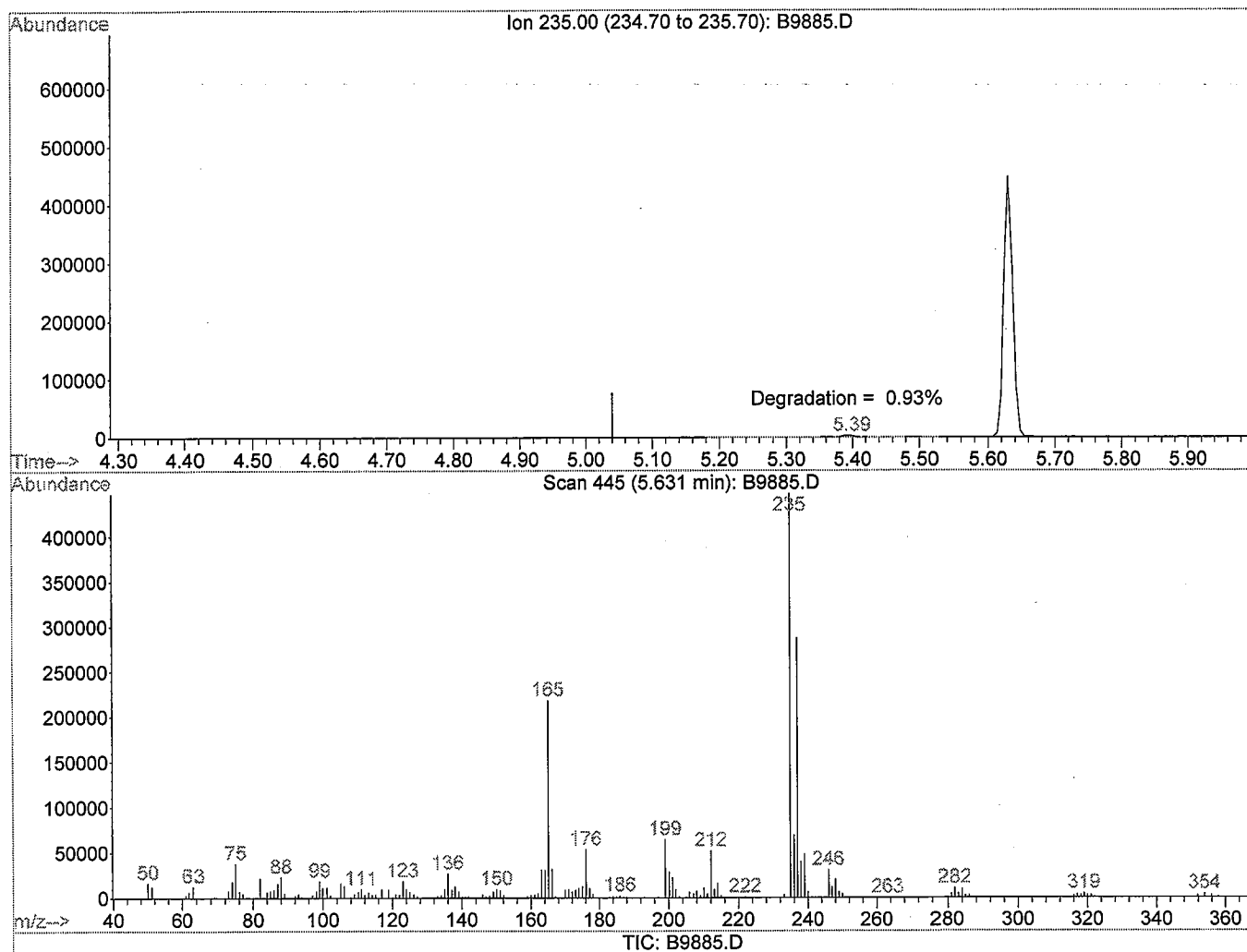
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPC.M (Chemstation Integrator)

Title :

Last Update : Thu Jun 24 19:00:24 2010

Response via : Single Level Calibration



(3) 4,4'-DDT (Degradation<20%)

5.63min 0.00

response 4179389

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Organic Prep Worksheet

Batch Number: 280-25954

Method: 3520C

Analyst: Assante, Thomas J

Date Open: Aug 07 2010 4:12PM

Batch End: Aug 11 2010 11:55PM

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	pH of the sample at receipt	pH of the sample after first adjustment	pH of the sample after the second adjust
MB~280-25954/1		3520C, 8270C/DoD		7	1000 mL	1000 uL	7	2	11
LCS~280-25954/2		3520C, 8270C/DoD		7	1000 mL	1000 uL	7	2	11
280-5988-G-1			T	7	1071 mL	1000 uL	7	2	11
280-5988-B-2			T	7	1057 mL	1000 uL	7	2	11
280-6075-A-5	NE SUMP-	3520C, 8270C/DoD	T	7	1058 mL	1000 uL	7	2	11
280-6075-A-6	SW SUMP-	3520C, 8270C/DoD	T	7	1064 mL	1000 uL	7	2	11
280-6075-A-7	RINSATE	3520C, 8270C/DoD	T	7	1060 mL	1000 uL	7	2	11
280-6033-B-3			T	7	1059 mL	1000 uL	7	2	11
280-6033-E-4			T	7	1062 mL	1000 uL	7	2	11
280-6033-A-5			T	7	1068 mL	1000 uL	7	2	11
280-6033-B-6			T	7	1059 mL	1000 uL	7	2	11
280-6033-A-7			T	7	1055 mL	1000 uL	7	2	11
280-6033-C-8			T	7	1057 mL	1000 uL	7	2	11
280-6033-P-8~MS			T	7	1058 mL	1000 uL	7	2	11
280-6033-Q-8~MSD			T	7	1063 mL	1000 uL	7	2	11
280-6033-A-9			T	7	1056 mL	1000 uL	7	2	11
LCSD~280-25954/1		3520C, 8270C/DoD		7	1000 mL	1000 uL	7	2	11
7									

Organic Prep Worksheet

Batch Number: 280-25954

Method: 3520C

Analyst: Assante, Thomas J

Date Open: Aug 07 2010 4:12PM

Batch End: Aug 11 2010 11:55PM

Lab ID	Client ID	Method Chain	Basis	8270LCS80ppm_0001 0	8270Surrogate_00015
MB~280-25954/1		3520C, 8270C/DoD			1 mL
LCS~280-25954/2		3520C, 8270C/DoD		1 mL	1 mL
280-5988-G-1			T		1 mL
280-5988-B-2			T		1 mL
280-6075-A-5	NE SUMP-	3520C, 8270C/DoD	T		1 mL
280-6075-A-6	SW SUMP-	3520C, 8270C/DoD	T		1 mL
280-6075-A-7	RINSATE	3520C, 8270C/DoD	T		1 mL
280-6033-B-3			T		1 mL
280-6033-E-4			T		1 mL
280-6033-A-5			T		1 mL
280-6033-B-6			T		1 mL
280-6033-A-7			T		1 mL
280-6033-C-8			T		1 mL
280-6033-P-8~MS			T	1 mL	1 mL
280-6033-Q-8~MSD			T	1 mL	1 mL
280-6033-A-9			T		1 mL
LCSD~280-25954/1 7		3520C, 8270C/DoD		1 mL	1 mL

Person's name who did the prep:	Thomas Assante; Pipette: E	Concentration End Time:	8-11-10 @23:55
Prep Solvent Name:	MECL2	Na2SO4 Lot Number:	J14642E
Prep Solvent Lot #:	J25J03	Sufficient volume for MS/MSD?:	Yes
Prep Solvent Volume Used:	300 mL	Filter Paper Lot Number:	NA
Person's name who witnessed reagent drop:	Reviewer: AJ	Water Bath ID:	A
Acid used for pH adjustment:	1/1-H2SO4	Water Bath Temperature:	84 C Celsius
Acid used for pH adjust Lot #:	1-4-1	N-evap temperature:	NA Celsius
Time the first extraction started 24 hr:	8-7-10 16:12	Florisil Lot #:	NA
Time the first extraction ended 24hr:	8-8-10 16:12	Copper Lot #:	NA
Base used for pH adjustment:	10N-NAOH	Sulfuric Acid Lot Number:	see above
Base used for pH adjust Lot #:	1912038		
Time the second extration started 24 hr:	8-8-10 17:12		
Time the second extractino ended 24 hr:	8/9/10 17:20		
Silica Gel Lot Number:	NA		
Person's name who did the concentration:	BROHL.R		
Exchange Solvent Name:	NA		
Exchange Solvent Lot #:	NA		
Concentration Start Time:	NA		

Organic Prep Worksheet

Batch Number: 280-25954

Method: 3520C

Analyst: Assante, Thomas J

Date Open: Aug 07 2010 4:12PM

Batch End: Aug 11 2010 11:55PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~280-25954/1		3520C, 8270C/DoD		
LCS~280-25954/2		3520C, 8270C/DoD		
280-5988-G-1			T	
280-5988-B-2			T	
280-6075-A-5	NE SUMP-	3520C, 8270C/DoD	T	
280-6075-A-6	SW SUMP-	3520C, 8270C/DoD	T	
280-6075-A-7	RINSATE	3520C, 8270C/DoD	T	
280-6033-B-3			T	
280-6033-E-4			T	
280-6033-A-5			T	
280-6033-B-6			T	
280-6033-A-7			T	
280-6033-C-8			T	
280-6033-P-8~MS			T	
280-6033-Q-8~MSD			T	
280-6033-A-9			T	
LCSD~280-25954/1		3520C, 8270C/DoD		
7				

Batch Comment:

DV-OP-0008, NaCl: H50584, H2O lot#: J28E00, PIP=CR

Organic Prep Worksheet

Batch Number: 280-26179

Method: 3550C

Analyst: Johnson, Aaron S

Date Open: Aug 10 2010 2:30PM

Batch End: Aug 13 2010 5:50PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	8270LCS80ppm_0001 0	8270Surrogate_00015	DinitroLCS_00001
MB~280-26179/1		3550C, 8270C/DoD		30.4 g	1000 uL		1 mL	
LCS~280-26179/2				30.3 g	1000 uL		1 mL	1 mL
LCS~280-26179/3		3550C, 8270C/DoD		31.8 g	1000 uL	1 mL	1 mL	
LCSD~280-26179/4		3550C, 8270C/DoD		30.2 g	1000 uL	1 mL	1 mL	
280-5878-B-2			T	30.6 g	1000 uL		1 mL	
280-5878-B-2~MS			T	30.8 g	1000 uL	1 mL	1 mL	
280-5878-B-2~MSD			T	30.7 g	1000 uL	1 mL	1 mL	
280-5878-B-3			T	30.2 g	1000 uL		1 mL	
280-5878-B-4			T	32.2 g	1000 uL		1 mL	
280-5878-B-5			T	30.1 g	1000 uL		1 mL	
280-5878-B-6			T	31.0 g	1000 uL		1 mL	
280-5976-A-1			T	30.7 g	1000 uL		1 mL	
280-5976-A-2			T	30.6 g	1000 uL		1 mL	
280-5988-A-3			T	32.0 g	1000 uL		1 mL	
280-5988-B-4			T	30.1 g	1000 uL		1 mL	
280-5988-B-5			T	32.1 g	1000 uL		1 mL	
280-6075-B-1	SS1-	3550C, 8270C/DoD	T	30.2 g	1000 uL		1 mL	
280-6075-A-2	SS2-	3550C, 8270C/DoD	T	31.1 g	1000 uL		1 mL	
280-6075-B-3	SS3-	3550C, 8270C/DoD	T	30.8 g	1000 uL		1 mL	
280-6075-A-4	SS4-	3550C, 8270C/DoD	T	30.2 g	1000 uL		1 mL	
280-6075-C-8	SS1-DUP-	3550C, 8270C/DoD	T	30.3 g	1000 uL		1 mL	
280-5949-A-1			T	31.9 g	1000 uL		1 mL	
280-6033-A-1			T	31.0 g	1000 uL		1 mL	
280-6033-D-2			T	30.2 g	1000 uL		1 mL	
280-6033-B-12			T	31.8 g	1000 uL		1 mL	

Organic Prep Worksheet

Batch Number: 280-26179

Method: 3550C

Analyst: Johnson, Aaron S

Date Open: Aug 10 2010 2:30PM

Batch End: Aug 13 2010 5:50PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	8270LCS80ppm_0001 0	8270Surrogate_00015	DinitroLCS_00001
280-6033-A-13			T	31.1 g	1000 uL		1 mL	

Nominal Amount Used: 30 g
 Prep Solvent Volume Used: 300 mL
 Vendor of Reagent used: N/A
 Person's name who did the concentration: Scoles.B
 Person's name who witnessed reagent drop: Reviewer: Susan Decker
 Na2SO4 Lot Number: J14642D
 Silica Gel Lot Number: N/A
 Concentration Start Time: NA
 Concentration End Time: NA
 Balance ID: 24750402
 Water Bath ID: A/B
 Water Bath Temperature: 88 Degrees C
 Prep Solvent Name: MeCl2/Acetone
 Prep Solvent Lot #: J25E16
 Exchange Solvent Name: N/A
 Exchange Solvent Lot #: N/A
 Blank Soil Lot Number: YW0475
 Florisil Solution Reagent ID: N/A
 Florisil Lot #: N/A
 Copper Lot #: N/A
 Sulfuric Acid Lot Number: N/A

Organic Prep Worksheet

Batch Number: 280-26179

Method: 3550C

Analyst: Johnson, Aaron S

Date Open: Aug 10 2010 2:30PM

Batch End: Aug 13 2010 5:50PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~280-26179/1		3550C, 8270C/DoD		Dinitro
LCS~280-26179/2				
LCS~280-26179/3		3550C, 8270C/DoD		
LCSD~280-26179/4		3550C, 8270C/DoD		
280-5878-B-2			T	
280-5878-B-2~MS			T	
280-5878-B-2~MSD			T	
280-5878-B-3			T	
280-5878-B-4			T	
280-5878-B-5			T	
280-5878-B-6			T	
280-5976-A-1			T	
280-5976-A-2			T	
280-5988-A-3			T	
280-5988-B-4			T	
280-5988-B-5			T	
280-6075-B-1	SS1-	3550C, 8270C/DoD	T	
280-6075-A-2	SS2-	3550C, 8270C/DoD	T	
280-6075-B-3	SS3-	3550C, 8270C/DoD	T	
280-6075-A-4	SS4-	3550C, 8270C/DoD	T	
280-6075-C-8	SS1-DUP-	3550C, 8270C/DoD	T	
280-5949-A-1			T	
280-6033-A-1			T	
280-6033-D-2			T	
280-6033-B-12			T	

Organic Prep Worksheet

Batch Number: 280-26179

Method: 3550C

Analyst: Johnson, Aaron S

Date Open: Aug 10 2010 2:30PM

Batch End: Aug 13 2010 5:50PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
280-6033-A-13			T	

Batch Comment:

DV-OP-0016/7 S/S: Aaron Johnson-F Aliquot: Erin Guest pip:CR

Organic Prep Worksheet

Batch Number: 280-28094

Method: 3520C

Analyst: Byl, Amelia M

Date Open: Aug 23 2010 2:15PM

Batch End: Aug 26 2010 11:40PM

Lab ID	Client ID	Method Chain	Basis	Initial pH	GrossWeight	Tare Weight	Initial weight/volume of sample	Final weight/volume of sample	pH of the sample after first adjustment
MB~280-28094/1		3520C, 8270C/DoD		7 SU			1000 mL	1000 uL	2 SU
LCS~280-28094/2		3520C, 8270C/DoD		7 SU			1000 mL	1000 uL	2 SU
LCSD~280-28094/3		3520C, 8270C/DoD		7 SU			1000 mL	1000 uL	2 SU
280-5988-F-1			T	7 SU			1065 mL	1000 uL	2 SU
280-5988-D-2			T	7 SU			1064 mL	1000 uL	2 SU
280-6075-B-6	SW SUMP-	3520C, 8270C/DoD	T	7 SU			1059 mL	1000 uL	2 SU
280-6033-C-3			T	7 SU			1056 mL	1000 uL	2 SU
280-6033-G-4			T	7 SU			1056 mL	1000 uL	2 SU
280-6033-F-5			T	7 SU			1059 mL	1000 uL	2 SU
280-6033-D-6			T	7 SU			1062 mL	1000 uL	2 SU
280-6033-D-7			T	7 SU			1055 mL	1000 uL	2 SU
280-6033-M-8			T	7 SU			1059 mL	1000 uL	2 SU
280-6033-N-8~MS			T	7 SU			1060 mL	1000 uL	2 SU
280-6033-O-8~MSD			T	7 SU			1064 mL	1000 uL	2 SU
280-6033-D-9			T	7 SU			1054 mL	1000 uL	2 SU
280-6162-B-10			T	7 SU	1535.0 g	501.5 g	1033.5 mL	1000 uL	2 SU
280-6204-B-10			T	7 SU	1550.8 g	502.4 g	1048.4 mL	1000 uL	2 SU

Organic Prep Worksheet

Batch Number: 280-28094

Method: 3520C

Analyst: Byl, Amelia M

Date Open: Aug 23 2010 2:15PM

Batch End: Aug 26 2010 11:40PM

Lab ID	Client ID	Method Chain	Basis	pH of the sample after the second adjust	8270LCS80ppm_0001 1	8270Surrogate_00016	Benzidine LCS_00045
MB~280-28094/1		3520C, 8270C/DoD		11 SU		1 mL	
LCS~280-28094/2		3520C, 8270C/DoD		11 SU	1 mL	1 mL	1 mL
LCSD~280-28094/3		3520C, 8270C/DoD		11 SU	1 mL	1 mL	1 mL
280-5988-F-1			T	11 SU		1 mL	
280-5988-D-2			T	11 SU		1 mL	
280-6075-B-6	SW SUMP-	3520C, 8270C/DoD	T	11 SU		1 mL	
280-6033-C-3			T	11 SU		1 mL	
280-6033-G-4			T	11 SU		1 mL	
280-6033-F-5			T	11 SU		1 mL	
280-6033-D-6			T	11 SU		1 mL	
280-6033-D-7			T	11 SU		1 mL	
280-6033-M-8			T	11 SU		1 mL	
280-6033-N-8~MS			T	11 SU	1 mL	1 mL	1 mL
280-6033-O-8~MSD			T	11 SU	1 mL	1 mL	1 mL
280-6033-D-9			T	11 SU		1 mL	
280-6162-B-10			T	11 SU		1 mL	
280-6204-B-10			T	11 SU		1 mL	

Person's name who did the prep:

BYL.A-pipette H

Concentration End Time:

NA

Prep Solvent Name:

MECL2

Na2SO4 Lot Number:

J14642J

Prep Solvent Lot #:

J30J09

Sufficient volume for MS/MSD?:

yes

Prep Solvent Volume Used:

300 mL

Filter Paper Lot Number:

NA

Person's name who witnessed reagent drop:

Reviewer: DECKER.S

Water Bath ID:

B

Acid used for pH adjustment:

1/1-H2SO4

Water Bath Temperature:

84C Degrees C

Acid used for pH adjust Lot #:

1-4-1

Time the first extraction started 24 hr:

08/23/10 @ 14:15

Time the first extraction ended 24hr:

8-24-10 14:45

Base used for pH adjustment:

10N-NAOH

Base used for pH adjust Lot #:

1912038

Time the second extration started 24 hr:

8-24-10 19:05

Time the second extractino ended 24 hr:

8-25-10 20:21

Silica Gel Lot Number:

NA

Person's name who did the concentration:

pottruff.e / brohl.r

Exchange Solvent Name:

NA

Exchange Solvent Lot #:

NA

Exchange Solvent Volume Used:

NA mL

Concentration Start Time:

NA

Organic Prep Worksheet

Batch Number: 280-28094

Method: 3520C

Analyst: Byl, Amelia M

Date Open: Aug 23 2010 2:15PM

Batch End: Aug 26 2010 11:40PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~280-28094/1	SW SUMP-	3520C, 8270C/DoD		
LCS~280-28094/2		3520C, 8270C/DoD		
LCSD~280-28094/3		3520C, 8270C/DoD		
280-5988-F-1			T	Volumetric; Re-work; HT expired 8/9/10
280-5988-D-2			T	Volumetric; Re-work; HT expired 8/9/10
280-6075-B-6		3520C, 8270C/DoD	T	Volumetric; Re-work; HT expired 8/9/10
280-6033-C-3			T	Volumetric; Re-work; HT expired 8/10/10
280-6033-G-4			T	Volumetric; Re-work; HT expired 8/10/10
280-6033-F-5			T	Volumetric; Re-work; HT expired 8/10/10
280-6033-D-6			T	Volumetric; Re-work; HT expired 8/10/10
280-6033-D-7			T	Volumetric; Re-work; HT expired 8/11/10
280-6033-M-8			T	Volumetric; Re-work; HT expired 8/11/10
280-6033-N-8~MS			T	Volumetric; Re-work; HT expired 8/11/10
280-6033-O-8~MSD			T	Volumetric; Re-work; HT expired 8/11/10
280-6033-D-9			T	Volumetric; Re-work; HT expired 8/11/10
280-6162-B-10			T	Re-work; HT expired 8/16/10
280-6204-B-10			T	Re-work; HT expired 8/17/10

Batch Comment:

DV-OP-0008/0007 Bal:24350888 H2O:ELGA NaCl:J15603, Share MB/LCS/LCSD w/batch 28154, PIP=CR

Method 8330B

Nitroaromatics and Nitramines (HPLC)
by Method 8330B

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low
GC Column (1): UltraCarb5u ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	12DNB1 #
SS1-	280-6075-1	104
SS2-	280-6075-2	103
SS2-	280-6075-2	105
SS3-	280-6075-3	107
SS4-	280-6075-4	94
SS1-DUP-	280-6075-8	111
SS1-DUP-	280-6075-8	104
	MB 280-26688/1-A	108
	MB 280-26688/1-A	104
	LCS 280-26688/2-A	104
	LCS 280-26688/3-A	105
SS1- MS	280-6075-1 MS	102
SS2- MS	280-6075-2 MS	103
SS1- MSD	280-6075-1 MSD	93
SS2- MSD	280-6075-2 MSD	106

12DNB = 1,2-Dinitrobenzene

QC LIMITS
83-122

Column to be used to flag recovery values

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): Luna-phenyl ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	12DNB1 #
NE SUMP-	280-6075-5	106
NE SUMP-	280-6075-5	114
SW SUMP-	280-6075-6	114
SW SUMP-	280-6075-6	108
RINSATE	280-6075-7	127 Q
RINSATE	280-6075-7	79
	MB 280-26077/5-A	115
	MB 280-26077/5-A	115
	LCS 280-26077/6-A	94
	LCS 280-26077/8-A	107
	LCSD 280-26077/7-A	106
	LCSD 280-26077/9-A	119 Q

12DNB = 1,2-Dinitrobenzene

QC LIMITS
75-118

Column to be used to flag recovery values

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: X0812015.D
 Lab ID: LCS 280-26077/6-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	2.00	2.18	109	50-155	
4-Amino-2,6-dinitrotoluene	2.00	2.01	101	55-155	
2,4-Dinitrotoluene	2.00	2.11	105	60-135	
2,6-Dinitrotoluene	2.00	1.95	98	60-135	
o-Nitrotoluene	2.00	1.38	69	45-135	
m-Nitrotoluene	2.00	1.82	91	50-130	
Nitrobenzene	2.00	1.61	80	50-140	
p-Nitrotoluene	2.00	1.67	83	50-130	
1,3,5-Trinitrobenzene	2.00	1.78	89	65-140	
1,3-Dinitrobenzene	2.00	2.10	105	45-160	
HMX	2.00	1.93	96	80-115	
RDX	2.00	1.94	97	50-160	
Tetryl	2.00	2.13	107	20-175	
2,4,6-Trinitrotoluene	2.00	2.15	108	50-145	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: X0812017.D
Lab ID: LCS 280-26077/8-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
3,5-Dinitroaniline	2.00	1.89	95	50-150	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: X0816010.D
 Lab ID: LCS 280-26688/2-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	1.00	1.09	109	80-125	
4-Amino-2,6-dinitrotoluene	1.00	1.06	106	80-125	
2,4-Dinitrotoluene	1.00	1.01	101	80-125	
2,6-Dinitrotoluene	1.00	0.967	97	80-120	
2-Nitrotoluene	1.00	0.979	98	80-125	
3-Nitrotoluene	1.00	1.03	103	75-120	
Nitrobenzene	1.00	1.00	100	75-125	
4-Nitrotoluene	1.00	1.02	102	75-125	
1,3,5-Trinitrobenzene	1.00	1.07	107	75-125	
1,3-Dinitrobenzene	1.00	0.991	99	80-125	
HMX	1.00	0.900	90	75-125	
RDX	1.00	1.05	105	70-135	
Tetryl	1.00	1.09	109	10-150	
2,4,6-Trinitrotoluene	1.00	1.05	105	55-140	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: X0816011.D
Lab ID: LCS 280-26688/3-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
3,5-Dinitroaniline	1.00	1.05	105	50-150	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: X0813009.D
 Lab ID: LCSD 280-26077/7-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-Amino-4,6-dinitrotoluene	2.00	2.00	100	9	30	50-155	
4-Amino-2,6-dinitrotoluene	2.00	1.83	91	10	30	55-155	
2,4-Dinitrotoluene	2.00	1.91	95	10	30	60-135	
2,6-Dinitrotoluene	2.00	1.77	88	10	30	60-135	
o-Nitrotoluene	2.00	1.20	60	13	30	45-135	
m-Nitrotoluene	2.00	1.48	74	20	30	50-130	
Nitrobenzene	2.00	1.44	72	11	30	50-140	
p-Nitrotoluene	2.00	1.43	71	16	30	50-130	
1,3,5-Trinitrobenzene	2.00	1.97	98	10	30	65-140	
1,3-Dinitrobenzene	2.00	1.94	97	8	30	45-160	
HMX	2.00	1.63	82	17	30	80-115	
RDX	2.00	2.10	105	8	30	50-160	
Tetryl	2.00	1.93	96	10	30	20-175	
2,4,6-Trinitrotoluene	2.00	1.92	96	11	30	50-145	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: X0812018.D
Lab ID: LCSD 280-26077/9-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
3,5-Dinitroaniline	2.00	1.97	98	4	30	50-150	Q

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: X0816013.D
 Lab ID: 280-6075-1 MS Client ID: SS1- MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.990	0.040 U	1.10	111	66-131	
4-Amino-2,6-dinitrotoluene	0.990	0.040 U	0.936	95	38-120	
2,4-Dinitrotoluene	0.990	0.040 U	1.06	107	72-125	
2,6-Dinitrotoluene	0.990	0.040 U	1.09	110	67-130	
2-Nitrotoluene	0.990	0.080 U	0.935	94	71-124	
3-Nitrotoluene	0.990	0.080 U	0.969	98	69-122	
Nitrobenzene	0.990	0.080 U	1.02	103	76-122	
4-Nitrotoluene	0.990	0.10 U	0.984	99	73-132	
1,3,5-Trinitrobenzene	0.990	0.040 U	0.976	99	67-132	
1,3-Dinitrobenzene	0.990	0.040 U	1.00	101	72-126	
HMX	0.990	0.040 U	0.853	86	60-127	
RDX	0.990	0.080 U	0.908	92	52-124	
Tetryl	0.990	0.080 U	1.10	111	63-140	
2,4,6-Trinitrotoluene	0.990	0.040 U	1.02	103	66-125	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: X0816016.D
Lab ID: 280-6075-2 MS Client ID: SS2- MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
3,5-Dinitroaniline	1.00	0.040 U	1.04	104	50-150	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: X0816014.D
 Lab ID: 280-6075-1 MSD Client ID: SS1- MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-Amino-4,6-dinitrotoluene	0.984	0.936	95	16	30	66-131	
4-Amino-2,6-dinitrotoluene	0.984	0.799	81	16	30	38-120	
2,4-Dinitrotoluene	0.984	0.970	99	9	30	72-125	
2,6-Dinitrotoluene	0.984	0.980	100	10	30	67-130	
2-Nitrotoluene	0.984	0.823	84	13	30	71-124	
3-Nitrotoluene	0.984	0.841	85	14	30	69-122	
Nitrobenzene	0.984	0.930	95	9	30	76-122	
4-Nitrotoluene	0.984	0.822	84	18	30	73-132	
1,3,5-Trinitrobenzene	0.984	0.900	91	8	30	67-132	
1,3-Dinitrobenzene	0.984	0.901	92	11	30	72-126	
HMX	0.984	0.802	81	6	30	60-127	
RDX	0.984	0.873	89	4	30	52-124	
Tetryl	0.984	1.02	103	8	30	63-140	
2,4,6-Trinitrotoluene	0.984	0.891	91	13	30	66-125	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: X0816017.D
Lab ID: 280-6075-2 MSD Client ID: SS2- MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
3,5-Dinitroaniline	0.985	0.979	99	6	30	50-150	

Column to be used to flag recovery and RPD values

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: MB 280-26077/5-A
Matrix: Water Date Extracted: 08/09/2010 14:35
Lab File ID: (1) Q0813009.D Lab File ID: (2) _____
Date Analyzed: (1) 08/13/2010 17:41 Date Analyzed: (2) _____
Instrument ID: (1) CHHPLC_Q Instrument ID: (2) _____
GC Column: (1) Luna-phenylh ID: 4.6 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
NE SUMP-	280-6075-5	08/13/2010 18:45	
SW SUMP-	280-6075-6	08/13/2010 19:17	
RINSATE	280-6075-7	08/13/2010 19:49	

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: MB 280-26077/5-A

Matrix: Water Date Extracted: 08/09/2010 14:35

Lab File ID: (1) X0812014.D Lab File ID: (2) _____

Date Analyzed: (1) 08/12/2010 15:54 Date Analyzed: (2) _____

Instrument ID: (1) CHHPLC_X3 Instrument ID: (2) _____

GC Column: (1) UltraCarb5uO ID: 4.6 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-26077/6-A	08/12/2010 16:15	
	LCS 280-26077/8-A	08/12/2010 16:57	
	LCSD 280-26077/9-A	08/12/2010 17:18	
NE SUMP-	280-6075-5	08/12/2010 18:00	
SW SUMP-	280-6075-6	08/12/2010 18:21	
RINSATE	280-6075-7	08/12/2010 18:42	
	LCSD 280-26077/7-A	08/13/2010 18:28	

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: MB 280-26688/1-A
Matrix: Solid Date Extracted: 08/13/2010 08:55
Lab File ID: (1) Q0817008.D Lab File ID: (2) _____
Date Analyzed: (1) 08/17/2010 16:44 Date Analyzed: (2) _____
Instrument ID: (1) CHHPLC_Q Instrument ID: (2) _____
GC Column: (1) Luna-phenylh ID: 4.6 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
SS2-	280-6075-2	08/17/2010 17:16	
SS1-DUP-	280-6075-8	08/17/2010 17:48	

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: MB 280-26688/1-A

Matrix: Solid Date Extracted: 08/13/2010 08:55

Lab File ID: (1) X0816009.D Lab File ID: (2) _____

Date Analyzed: (1) 08/16/2010 16:48 Date Analyzed: (2) _____

Instrument ID: (1) CHHPLC_X3 Instrument ID: (2) _____

GC Column: (1) UltraCarb5uO ID: 4.6(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-26688/2-A	08/16/2010 17:09	
	LCS 280-26688/3-A	08/16/2010 17:30	
SS1-	280-6075-1	08/16/2010 17:51	
SS1- MS	280-6075-1 MS	08/16/2010 18:12	
SS1- MSD	280-6075-1 MSD	08/16/2010 18:33	
SS2-	280-6075-2	08/16/2010 18:54	
SS2- MS	280-6075-2 MS	08/16/2010 19:15	
SS2- MSD	280-6075-2 MSD	08/16/2010 19:36	
SS3-	280-6075-3	08/16/2010 19:57	
SS4-	280-6075-4	08/16/2010 20:18	
SS1-DUP-	280-6075-8	08/16/2010 20:39	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1- Lab Sample ID: 280-6075-1

Matrix: Solid Lab File ID: X0816012.D

Analysis Method: 8330B Date Collected: 08/02/2010 09:45

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10.02(g) Date Analyzed: 08/16/2010 17:51

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.040	U	0.10	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.040	U	0.10	0.030
121-14-2	2,4-Dinitrotoluene	0.040	U	0.10	0.015
606-20-2	2,6-Dinitrotoluene	0.040	U	0.10	0.019
88-72-2	2-Nitrotoluene	0.080	U	0.20	0.047
99-08-1	3-Nitrotoluene	0.080	U	0.20	0.064
98-95-3	Nitrobenzene	0.080	U	0.30	0.085
99-99-0	4-Nitrotoluene	0.10	U	0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.040	U	0.10	0.014
99-65-0	1,3-Dinitrobenzene	0.040	U	0.10	0.017
2691-41-0	HMX	0.040	U	0.10	0.023
121-82-4	RDX	0.080	U	0.20	0.043
479-45-8	Tetryl	0.080	U	0.20	0.044
118-96-7	2,4,6-Trinitrotoluene	0.040	U	0.10	0.031
618-87-1	3,5-Dinitroaniline	0.040	U	0.10	0.0090

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1- Lab Sample ID: 280-6075-1
Matrix: Solid Lab File ID: X0816012.D
Analysis Method: 8330B Date Collected: 08/02/2010 09:45
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.02(g) Date Analyzed: 08/16/2010 17:51
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	104	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS2- Lab Sample ID: 280-6075-2

Matrix: Solid Lab File ID: X0816015.D

Analysis Method: 8330B Date Collected: 08/02/2010 10:10

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10.01(g) Date Analyzed: 08/16/2010 18:54

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.040	U	0.10	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.040	U	0.10	0.030
121-14-2	2,4-Dinitrotoluene	0.040	U	0.10	0.015
606-20-2	2,6-Dinitrotoluene	0.040	U	0.10	0.019
88-72-2	2-Nitrotoluene	0.080	U	0.20	0.047
99-08-1	3-Nitrotoluene	0.080	U	0.20	0.064
98-95-3	Nitrobenzene	0.080	U	0.30	0.085
99-99-0	4-Nitrotoluene	0.10	U	0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.040	U	0.10	0.014
2691-41-0	HMX	0.040	U	0.10	0.023
121-82-4	RDX	0.080	U	0.20	0.043
118-96-7	2,4,6-Trinitrotoluene	0.040	U	0.10	0.031
618-87-1	3,5-Dinitroaniline	0.040	U	0.10	0.0090

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- Lab Sample ID: 280-6075-2
Matrix: Solid Lab File ID: X0816015.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:10
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.01(g) Date Analyzed: 08/16/2010 18:54
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	105	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- Lab Sample ID: 280-6075-2
Matrix: Solid Lab File ID: Q0817009.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:10
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.01(g) Date Analyzed: 08/17/2010 17:16
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27266 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
99-65-0	1,3-Dinitrobenzene	0.040	U	0.10	0.017
479-45-8	Tetryl	0.080	U	0.20	0.044

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- Lab Sample ID: 280-6075-2
Matrix: Solid Lab File ID: Q0817009.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:10
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.01(g) Date Analyzed: 08/17/2010 17:16
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27266 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	103	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS3- Lab Sample ID: 280-6075-3

Matrix: Solid Lab File ID: X0816018.D

Analysis Method: 8330B Date Collected: 08/02/2010 10:30

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10.04(g) Date Analyzed: 08/16/2010 19:57

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.040	U	0.10	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.040	U	0.10	0.030
121-14-2	2,4-Dinitrotoluene	0.040	U	0.10	0.015
606-20-2	2,6-Dinitrotoluene	0.040	U	0.10	0.019
88-72-2	2-Nitrotoluene	0.080	U	0.20	0.047
99-08-1	3-Nitrotoluene	0.080	U	0.20	0.064
98-95-3	Nitrobenzene	0.080	U	0.30	0.085
99-99-0	4-Nitrotoluene	0.10	U	0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.040	U	0.10	0.014
99-65-0	1,3-Dinitrobenzene	0.040	U	0.10	0.017
2691-41-0	HMX	0.040	U	0.10	0.023
121-82-4	RDX	0.080	U	0.20	0.043
479-45-8	Tetryl	0.080	U	0.20	0.044
118-96-7	2,4,6-Trinitrotoluene	0.040	U	0.10	0.031
618-87-1	3,5-Dinitroaniline	0.040	U	0.10	0.0090

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS3- Lab Sample ID: 280-6075-3
Matrix: Solid Lab File ID: X0816018.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:30
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.04(g) Date Analyzed: 08/16/2010 19:57
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	107	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS4- Lab Sample ID: 280-6075-4

Matrix: Solid Lab File ID: X0816019.D

Analysis Method: 8330B Date Collected: 08/02/2010 10:45

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10.09(g) Date Analyzed: 08/16/2010 20:18

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.040	U	0.099	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.040	U	0.099	0.030
121-14-2	2,4-Dinitrotoluene	0.040	U	0.099	0.015
606-20-2	2,6-Dinitrotoluene	0.040	U	0.099	0.019
88-72-2	2-Nitrotoluene	0.079	U	0.20	0.047
99-08-1	3-Nitrotoluene	0.079	U	0.20	0.063
98-95-3	Nitrobenzene	0.079	U	0.30	0.084
99-99-0	4-Nitrotoluene	0.099	U	0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.040	U	0.099	0.014
99-65-0	1,3-Dinitrobenzene	0.040	U	0.099	0.016
2691-41-0	HMX	0.040	U	0.099	0.022
121-82-4	RDX	0.079	U	0.20	0.043
479-45-8	Tetryl	0.079	U	0.20	0.044
118-96-7	2,4,6-Trinitrotoluene	0.040	U	0.099	0.030
618-87-1	3,5-Dinitroaniline	0.040	U	0.099	0.0089

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS4- Lab Sample ID: 280-6075-4
Matrix: Solid Lab File ID: X0816019.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:45
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.09(g) Date Analyzed: 08/16/2010 20:18
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	94	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: NE SUMP- Lab Sample ID: 280-6075-5

Matrix: Water Lab File ID: X0812020.D

Analysis Method: 8330B Date Collected: 08/02/2010 08:00

Extraction Method: 3535 Date Extracted: 08/09/2010 14:35

Sample wt/vol: 494 (mL) Date Analyzed: 08/12/2010 18:00

Con. Extract Vol.: 5000 (uL) Dilution Factor: 1

Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 26610 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.15	U	0.20	0.051
19406-51-0	4-Amino-2,6-dinitrotoluene	0.15	U	0.20	0.058
121-14-2	2,4-Dinitrotoluene	0.15	U Q	0.40	0.085
606-20-2	2,6-Dinitrotoluene	0.15	U	0.20	0.065
88-72-2	o-Nitrotoluene	0.15	U	0.40	0.087
99-08-1	m-Nitrotoluene	0.15	U	0.40	0.084
98-95-3	Nitrobenzene	0.15	U	0.40	0.092
99-99-0	p-Nitrotoluene	0.40	U	1.0	0.20
99-35-4	1,3,5-Trinitrobenzene	0.40	U	1.0	0.20
99-65-0	1,3-Dinitrobenzene	0.15	U	0.40	0.090
2691-41-0	HMX	0.15	U	0.40	0.089
121-82-4	RDX	0.15	U	0.20	0.053
479-45-8	Tetryl	0.15	U	0.24	0.080
118-96-7	2,4,6-Trinitrotoluene	0.15	U	0.40	0.073
618-87-1	3,5-Dinitroaniline	0.15	U	0.40	0.13

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	114	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6

Matrix: Water Lab File ID: X0812021.D

Analysis Method: 8330B Date Collected: 08/02/2010 08:30

Extraction Method: 3535 Date Extracted: 08/09/2010 14:35

Sample wt/vol: 498 (mL) Date Analyzed: 08/12/2010 18:21

Con. Extract Vol.: 5000 (uL) Dilution Factor: 1

Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 26610 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.15	U	0.20	0.051
19406-51-0	4-Amino-2,6-dinitrotoluene	0.15	U	0.20	0.058
121-14-2	2,4-Dinitrotoluene	0.15	U Q	0.40	0.084
606-20-2	2,6-Dinitrotoluene	0.15	U	0.20	0.065
88-72-2	o-Nitrotoluene	0.15	U	0.40	0.086
99-08-1	m-Nitrotoluene	0.15	U	0.40	0.084
98-95-3	Nitrobenzene	0.15	U	0.40	0.091
99-99-0	p-Nitrotoluene	0.40	U	1.0	0.20
99-35-4	1,3,5-Trinitrobenzene	0.40	U	1.0	0.20
99-65-0	1,3-Dinitrobenzene	0.15	U	0.40	0.089
2691-41-0	HMX	0.15	U	0.40	0.088
118-96-7	2,4,6-Trinitrotoluene	0.15	U	0.40	0.073
618-87-1	3,5-Dinitroaniline	0.14	U	0.40	0.13

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	108	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6
Matrix: Water Lab File ID: Q0813012.D
Analysis Method: 8330B Date Collected: 08/02/2010 08:30
Extraction Method: 3535 Date Extracted: 08/09/2010 14:35
Sample wt/vol: 498 (mL) Date Analyzed: 08/13/2010 19:17
Con. Extract Vol.: 5000 (uL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: Luna-phenylhex ID: 4.6 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 26812 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
121-82-4	RDX	0.15	U	0.20	0.053
479-45-8	Tetryl	0.15	U	0.24	0.080

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	114	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: RINSATE Lab Sample ID: 280-6075-7

Matrix: Water Lab File ID: X0812022.D

Analysis Method: 8330B Date Collected: 08/02/2010 11:45

Extraction Method: 3535 Date Extracted: 08/09/2010 14:35

Sample wt/vol: 497 (mL) Date Analyzed: 08/12/2010 18:42

Con. Extract Vol.: 5000 (uL) Dilution Factor: 1

Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 26610 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
19406-51-0	4-Amino-2,6-dinitrotoluene	0.15	U	0.20	0.058
606-20-2	2,6-Dinitrotoluene	0.15	U	0.20	0.065
88-72-2	o-Nitrotoluene	0.15	U	0.40	0.086
98-95-3	Nitrobenzene	0.15	U	0.40	0.092
99-99-0	p-Nitrotoluene	0.40	U	1.0	0.20
99-35-4	1,3,5-Trinitrobenzene	0.40	U	1.0	0.20
99-65-0	1,3-Dinitrobenzene	0.15	U	0.40	0.089
2691-41-0	HMX	0.15	U	0.40	0.088
121-82-4	RDX	0.15	U	0.20	0.053
479-45-8	Tetryl	0.15	U	0.24	0.080
118-96-7	2,4,6-Trinitrotoluene	0.15	U	0.40	0.073
618-87-1	3,5-Dinitroaniline	0.14	U	0.40	0.13

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	79	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: RINSATE Lab Sample ID: 280-6075-7
Matrix: Water Lab File ID: Q0813013.D
Analysis Method: 8330B Date Collected: 08/02/2010 11:45
Extraction Method: 3535 Date Extracted: 08/09/2010 14:35
Sample wt/vol: 497 (mL) Date Analyzed: 08/13/2010 19:49
Con. Extract Vol.: 5000 (uL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: Luna-phenylhex ID: 4.6 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 26812 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.15	U Q	0.20	0.051
121-14-2	2,4-Dinitrotoluene	0.15	U Q	0.40	0.084
99-08-1	m-Nitrotoluene	0.15	U Q	0.40	0.084

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	127	75-118	Q

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8

Matrix: Solid Lab File ID: X0816020.D

Analysis Method: 8330B Date Collected: 08/02/2010 11:30

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10.06(g) Date Analyzed: 08/16/2010 20:39

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.040	U	0.099	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.040	U	0.099	0.030
121-14-2	2,4-Dinitrotoluene	0.040	U	0.099	0.015
606-20-2	2,6-Dinitrotoluene	0.040	U	0.099	0.019
88-72-2	2-Nitrotoluene	0.080	U	0.20	0.047
99-08-1	3-Nitrotoluene	0.080	U	0.20	0.064
98-95-3	Nitrobenzene	0.080	U	0.30	0.084
99-99-0	4-Nitrotoluene	0.099	U	0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.040	U	0.099	0.014
99-65-0	1,3-Dinitrobenzene	0.040	U	0.099	0.017
2691-41-0	HMX	0.040	U	0.099	0.023
121-82-4	RDX	0.080	U	0.20	0.043
479-45-8	Tetryl	0.080	U	0.20	0.044
118-96-7	2,4,6-Trinitrotoluene	0.040	U	0.099	0.031

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8
Matrix: Solid Lab File ID: X0816020.D
Analysis Method: 8330B Date Collected: 08/02/2010 11:30
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.06(g) Date Analyzed: 08/16/2010 20:39
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	104	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8
Matrix: Solid Lab File ID: Q0817010.D
Analysis Method: 8330B Date Collected: 08/02/2010 11:30
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.06(g) Date Analyzed: 08/17/2010 17:48
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27266 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
618-87-1	3,5-Dinitroaniline	0.040	U	0.099	0.0089

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8
Matrix: Solid Lab File ID: Q0817010.D
Analysis Method: 8330B Date Collected: 08/02/2010 11:30
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.06(g) Date Analyzed: 08/17/2010 17:48
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27266 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	111	83-122	

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

00112395

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 19421

SDG No.: _____

Instrument ID: CHHPLC_Q GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/17/2010 14:50 Calibration End Date: 03/17/2010 18:34 Calibration ID: 1925

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD56909 280-19421/9	009-0901.D
Level 2	STD56908 280-19421/8	008-0801.D
Level 3	STD56907 280-19421/7	007-0701.D
Level 4	STD56906 280-19421/6	006-0601.D
Level 5	STD56905 280-19421/5	005-0501.D
Level 6	STD56904 280-19421/4	004-0401.D
Level 7	STD56902 280-19421/3	003-0301.D
Level 8	STD56873 280-19421/2	002-0201.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
2,6-diamino-4-nitrotoluene	3.923	3.925	3.920	3.919	3.913	3.904	3.889	3.878			3.769 - 4.069	3.909
2,4-diamino-6-nitrotoluene	4.336	4.338	4.327	4.333	4.320	4.317	4.309	4.331			4.183 - 4.483	4.326
Picric acid	5.343	5.318	5.287	5.273	5.260	5.231	5.203				5.123 - 5.423	5.274
HMX	6.050	6.058	6.040	6.046	6.040	6.037	6.023	6.024			5.896 - 6.196	6.040
MXN	6.690	6.698	6.680	6.686	6.673	6.671	6.656	6.651			6.536 - 6.836	6.676
RDX	7.876	7.885	7.860	7.866	7.853	7.851	7.836	7.824			7.716 - 8.016	7.856
Nitrobenzene	10.503	10.511	10.494	10.493	10.480	10.471	10.449	10.438			10.343 - 10.643	10.480
3,5-Dinitroaniline	13.023	13.031	13.007	13.006	12.987	12.984	12.963	12.944			12.856 - 13.156	12.993
1,3-Dinitrobenzene	13.583	13.591	13.574	13.566	13.553	13.551	13.529	13.511			13.416 - 13.716	13.557
Nitroglycerin	13.596	13.611	13.587	13.586	13.567	13.564	13.549	13.524			13.436 - 13.736	13.573
2-Nitrotoluene	14.450	14.458	14.440	14.433	14.420	14.411	14.396	14.371			14.283 - 14.583	14.422
4-Nitrotoluene	14.743	14.758	14.734	14.726	14.713	14.711	14.689	14.671			14.576 - 14.876	14.718
4-Amino-2,6-dinitrotoluene	15.030	15.045	15.020	15.013	15.000	14.997	14.976	14.958			14.863 - 15.163	15.005
3-Nitrotoluene	15.590	15.605	15.580	15.579	15.567	15.557	15.543	15.518			15.429 - 15.729	15.567
2-Amino-4,6-dinitrotoluene	15.916	15.931	15.907	15.899	15.893	15.884	15.863	15.838			15.749 - 16.049	15.891
1,3,5-Trinitrobenzene	16.610	16.611	16.594	16.586	16.580	16.571	16.556	16.531			16.436 - 16.736	16.580
2,6-Dinitrotoluene	17.476	17.491	17.467	17.466	17.460	17.451	17.429	17.398			17.316 - 17.616	17.455
2,4-Dinitrotoluene	17.990	17.998	17.974	17.973	17.960	17.951	17.936	17.904			17.823 - 18.123	17.961
Tetryl	21.183	21.191	21.160	21.159	21.160	21.144	21.129	21.091			21.009 - 21.309	21.152
2,4,6-Trinitrotoluene	22.183	22.198	22.174	22.166	22.167	22.151	22.129	22.098			22.016 - 22.316	22.158
PETN	22.903	22.911	22.880	22.879	22.880	22.864	22.843	22.811			22.729 - 23.029	22.871
1,2-Dinitrobenzene	11.263	11.285	11.260	11.259	11.247	11.244	11.223	11.211			11.109 - 11.409	11.249

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

00112396

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 19421

SDG No.: _____

Instrument ID: CHHPLC_Q GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/17/2010 14:50 Calibration End Date: 03/17/2010 18:34 Calibration ID: 1925

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD56909 280-19421/9	009-0901.D
Level 2	STD56908 280-19421/8	008-0801.D
Level 3	STD56907 280-19421/7	007-0701.D
Level 4	STD56906 280-19421/6	006-0601.D
Level 5	STD56905 280-19421/5	005-0501.D
Level 6	STD56904 280-19421/4	004-0401.D
Level 7	STD56902 280-19421/3	003-0301.D
Level 8	STD56873 280-19421/2	002-0201.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,6-diamino-4-nitrotoluene	323600 364333	369080 359407	366790 374288	363972 358146	Ave		359952				4.3		10.0			
2,4-diamino-6-nitrotoluene	239800 241010	260200 238910	245220 263401	235968 243898	Ave		246051				4.1		10.0			
Picric acid	157400 167058	158800 166070	162360 173566	167348	Ave		164657				3.4		10.0			
HMX	154700 153103	152300 151991	151020 151357	151724 153884	Ave		152510				0.8		10.0			
MNX	225107 218761	213044 215270	215357 217070	216792 220942	Ave		217793				1.7		10.0			
RDX	196600 189218	189480 188260	188610 186818	189448 189648	Ave		189760				1.5		10.0			
Nitrobenzene	359400 366198	363080 368979	365560 369452	363732 374211	Ave		366326				1.2		10.0			
3,5-Dinitroaniline	440900 450585	458120 447029	451710 444755	423872 447765	Ave		445592				2.3		10.0			
1,3-Dinitrobenzene	566100 590375	581360 583409	583850 581824	585020 580744	Ave		581585				1.2		10.0			
Nitroglycerin	150810 171144	166406 170495	168421 169835	170525 174061	Lin2	2075	171327							1.0000		0.9900
2-Nitrotoluene	250900 229493	228000 228979	225140 229579	225128 229272	Ave		230811				3.6		10.0			
4-Nitrotoluene	225400 202583	205100 204937	203100 203705	203272 206002	Ave		206762				3.7		10.0			
4-Amino-2,6-dinitrotoluene	270900 264975	261600 262513	265760 264755	263516 260624	Ave		264330				1.2		10.0			
3-Nitrotoluene	231800 251390	247680 252060	250440 252296	248612 251639	Ave		248240				2.8		10.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

00112397

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 19421

SDG No.: _____

Instrument ID: CHHPLC_Q GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/17/2010 14:50 Calibration End Date: 03/17/2010 18:34 Calibration ID: 1925

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2-Amino-4,6-dinitrotoluene	368600 352165	358900 351270	356840 352404	352164 349406	Ave		355219				1.8		10.0			
1,3,5-Trinitrobenzene	415900 418585	409440 414869	420990 415069	414704 417827	Ave		415923				0.8		10.0			
2,6-Dinitrotoluene	264500 261570	264660 259690	261210 259894	263188 264947	Ave		262457				0.8		10.0			
2,4-Dinitrotoluene	487400 504860	502120 501037	508210 501640	506204 512489	Ave		502995				1.5		10.0			
Tetryl	309400 313570	311220 312800	307080 309805	310408 316844	Ave		311391				1.0		10.0			
2,4,6-Trinitrotoluene	387200 383303	374760 385406	385270 378162	384036 388995	Ave		383391				1.2		10.0			
PETN	134070 138822	133220 138020	136491 137517	138329 139362	Ave		136979				1.6		10.0			
1,2-Dinitrobenzene	231000 250310	251260 250567	248070 250121	247396 253886	Ave		247826				2.9		10.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

00112398

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 19421

SDG No.: _____

Instrument ID: CHHPLC_Q GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/17/2010 14:50 Calibration End Date: 03/17/2010 18:34 Calibration ID: 1925

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD56909 280-19421/9	009-0901.D
Level 2	STD56908 280-19421/8	008-0801.D
Level 3	STD56907 280-19421/7	007-0701.D
Level 4	STD56906 280-19421/6	006-0601.D
Level 5	STD56905 280-19421/5	005-0501.D
Level 6	STD56904 280-19421/4	004-0401.D
Level 7	STD56902 280-19421/3	003-0301.D
Level 8	STD56873 280-19421/2	002-0201.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		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
2,6-diamino-4-nitrotoluene	Ave	3236 251585	18454 374288	36679 895365	90993	145733	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2,4-diamino-6-nitrotoluene	Ave	2398 167237	13010 263401	24522 609746	58992	96404	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Picric acid	Ave	1574 116249	7940 173566	16236	41837	66823	0.0100 0.700	0.0500 1.00	0.100	0.250	0.400
HMX	Ave	1547 106394	7615 151357	15102 384710	37931	61241	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
MNX	Ave	2258 151153	10685 217739	21602 554057	54365	87774	0.0100 0.702	0.0502 1.00	0.100 2.51	0.251	0.401
RDX	Ave	1966 131782	9474 186818	18861 474120	47362	75687	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Nitrobenzene	Ave	3594 258285	18154 369452	36556 935528	90933	146479	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
3,5-Dinitroaniline	Ave	4409 312920	22906 444755	45171 1119412	105968	180234	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
1,3-Dinitrobenzene	Ave	5661 408386	29068 581824	58385 1451861	146255	236150	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Nitroglycerin	Lin2	15081 1193468	83203 1698345	168421 4351528	426312	684577	0.100 7.00	0.500 10.0	1.00 25.0	2.50	4.00
2-Nitrotoluene	Ave	2509 160285	11400 229579	22514 573180	56282	91797	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
4-Nitrotoluene	Ave	2254 143456	10255 203705	20310 515004	50818	81033	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
4-Amino-2,6-dinitrotoluene	Ave	2709 183759	13080 264755	26576 651560	65879	105990	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
3-Nitrotoluene	Ave	2318 176442	12384 252296	25044 629097	62153	100556	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2-Amino-4,6-dinitrotoluene	Ave	3686 245889	17945 352404	35684 873514	88041	140866	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

00112399

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 19421

SDG No.: _____

Instrument ID: CHHPLC_Q GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/17/2010 14:50 Calibration End Date: 03/17/2010 18:34 Calibration ID: 1925

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		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
1,3,5-Trinitrobenzene	Ave	4159 290408	20472 415069	42099 1044567	103676	167434	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2,6-Dinitrotoluene	Ave	2645 181783	13233 259894	26121 662367	65797	104628	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2,4-Dinitrotoluene	Ave	4874 350726	25106 501640	50821 1281223	126551	201944	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Tetryl	Ave	3094 218960	15561 309805	30708 792109	77602	125428	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2,4,6-Trinitrotoluene	Ave	3872 269784	18738 378162	38527 972487	96009	153321	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
PETN	Ave	13407 966140	66610 1375172	136491 3484044	345822	555288	0.100 7.00	0.500 10.0	1.00 25.0	2.50	4.00
1,2-Dinitrobenzene	Ave	2310 175397	12563 250121	24807 634714	61849	100124	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

00112400

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 11:34 Calibration End Date: 07/30/2010 14:01 Calibration ID: 2393

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-24900/14	X0730014.D
Level 2	STD2 280-24900/13	X0730013.D
Level 3	STD3 280-24900/12	X0730012.D
Level 4	STD4 280-24900/11	X0730011.D
Level 5	STD5 280-24900/10	X0730010.D
Level 6	STD6 280-24900/9	X0730009.D
Level 7	STD7 280-24900/8	X0730008.D
Level 8	STD8 280-24900/7	X0730007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
2,6-diamino-4-nitrotoluene	7.352	7.346	7.349	7.350	7.345	7.350	7.344	7.342			7.200 - 7.500	7.347
HMX	7.579	7.579	7.575	7.576	7.578	7.577	7.577	7.575			7.426 - 7.726	7.577
2,4-diamino-6-nitrotoluene	7.712	7.706	7.702	7.703	7.698	7.703	7.704	7.708			7.553 - 7.853	7.705
MXN	8.459	8.453	8.455	8.456	8.452	8.450	8.451	8.448			8.306 - 8.606	8.453
RDX	8.852	8.853	8.855	8.856	8.852	8.850	8.851	8.848			8.706 - 9.006	8.852
Picric acid	9.485	9.479	9.462	9.430	9.412	9.383	9.364	9.288			9.280 - 9.580	9.413
1,3,5-Trinitrobenzene	9.839	9.839	9.835	9.836	9.832	9.836	9.837	9.828			9.686 - 9.986	9.835
1,3-Dinitrobenzene	10.699	10.699	10.702	10.696	10.698	10.696	10.697	10.688			10.546 - 10.846	10.697
Tetryl	11.099	11.099	11.102	11.096	11.098	11.103	11.104	11.095			10.946 - 11.246	11.100
Nitrobenzene	11.245	11.246	11.242	11.243	11.238	11.243	11.244	11.228			11.093 - 11.393	11.241
Nitroglycerin	11.472	11.466	11.468	11.463	11.465	11.463	11.464	11.448			11.313 - 11.613	11.464
2,4,6-Trinitrotoluene	11.979	11.986	11.982	11.983	11.978	11.983	11.984	11.975			11.833 - 12.133	11.981
4-Amino-2,6-dinitrotoluene	12.272	12.266	12.262	12.263	12.265	12.270	12.270	12.255			12.113 - 12.413	12.265
2-Amino-4,6-dinitrotoluene	12.625	12.632	12.628	12.623	12.625	12.630	12.630	12.615			12.473 - 12.773	12.626
2,6-Dinitrotoluene	12.845	12.859	12.855	12.856	12.858	12.856	12.857	12.848			12.706 - 13.006	12.854
2,4-Dinitrotoluene	13.132	13.139	13.128	13.130	13.125	13.130	13.130	13.115			12.980 - 13.280	13.129
2-Nitrotoluene	14.105	14.106	14.102	14.103	14.098	14.103	14.104	14.088			13.953 - 14.253	14.101
4-Nitrotoluene	14.599	14.646	14.622	14.630	14.625	14.636	14.630	14.615			14.480 - 14.780	14.625
PETN	15.165	15.166	15.148	15.156	15.152	15.163	15.164	15.148			15.006 - 15.306	15.158
3-Nitrotoluene	15.219	15.232	15.215	15.216	15.218	15.223	15.224	15.215			15.066 - 15.366	15.220
1,2-Dinitrobenzene	10.059	10.059	10.062	10.056	10.058	10.056	10.057	10.048			9.906 - 10.206	10.057

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

00112401

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 11:34 Calibration End Date: 07/30/2010 14:01 Calibration ID: 2393

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-24900/14	X0730014.D
Level 2	STD2 280-24900/13	X0730013.D
Level 3	STD3 280-24900/12	X0730012.D
Level 4	STD4 280-24900/11	X0730011.D
Level 5	STD5 280-24900/10	X0730010.D
Level 6	STD6 280-24900/9	X0730009.D
Level 7	STD7 280-24900/8	X0730008.D
Level 8	STD8 280-24900/7	X0730007.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,6-diamino-4-nitrotoluene	283000 282563	273800 286353	331620 283057	316436 294159	Ave		293873				6.8		10.0			
HMX	131400 131838	124680 136226	155180 135992	149152 154238	Ave		139838				8.2		10.0			
2,4-diamino-6-nitrotoluene	164600 177005	175840 175929	207020 173895	196560 167380	Qua	1552	177111	4158						1.0000		0.9900
MNX	201180 164182	185907 188894	210332 181050	198285 187031	Ave		189608				7.4		10.0			
RDX	138000 147805	150920 153601	178790 149526	167476 159904	Ave		155753				8.2		10.0			
Picric acid	97900 129358	130500 130910	154270 127426	146372 141803	Lin2	397	139226							0.9940		0.9900
1,3,5-Trinitrobenzene	251100 341690	314200 347750	394810 341616	380736 360945	Ave		341606				13.0	*	10.0			
1,3-Dinitrobenzene	502700 438010	418380 443469	499930 438389	486748 465841	Ave		461683				6.9		10.0			
Tetryl	276200 273135	233800 272947	300440 270667	299684 291381	Ave		277282				7.7		10.0			
Nitrobenzene	297700 251838	225560 261431	278280 259790	282960 272205	Lin2	306	260897							0.9940		0.9900
Nitroglycerin	64040 83699	74986 90245	91149 90057	90060 94824	Lin2	2698	89581							0.9970		0.9900
2,4,6-Trinitrotoluene	258400 307248	260280 313514	329790 310496	340760 334638	Ave		306891				10.0		10.0			
4-Amino-2,6-dinitrotoluene	166500 196600	149240 200547	197560 198815	213652 211976	Lin2	396	198754							0.9910		0.9900
2-Amino-4,6-dinitrotoluene	226700 285140	242780 291731	306830 286162	312532 301762	Lin2	725	294326							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

00112402

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 11:34 Calibration End Date: 07/30/2010 14:01 Calibration ID: 2393

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,6-Dinitrotoluene	161900 222868	191700 224377	243150 215029	244496 230308	Lin2	689	228724							0.9950		0.9900
2,4-Dinitrotoluene	399000 381350	374820 395944	436660 371969	426388 386367	Lin2	32	396000							0.9960		0.9900
2-Nitrotoluene	132300 195093	191760 189639	197660 189076	217728 200067	Lin2	669	200811							0.9970		0.9900
4-Nitrotoluene	145300 165040	169160 162923	176140 161552	184668 169796	Lin1	51	167705							0.9990		0.9900
PETN	113660 142238	120774 143071	174224 139306	161752 142949	Lin1	770	143587							0.9980		0.9900
3-Nitrotoluene	191300 225455	238340 219844	257740 218081	246056 227198	Lin1	139	225580							0.9990		0.9900
1,2-Dinitrobenzene	185300 192585	171520 197547	220120 193842	211860 207478	Lin2	182	200697							0.9940		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

00112403

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 11:34 Calibration End Date: 07/30/2010 14:01 Calibration ID: 2393

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-24900/14	X0730014.D
Level 2	STD2 280-24900/13	X0730013.D
Level 3	STD3 280-24900/12	X0730012.D
Level 4	STD4 280-24900/11	X0730011.D
Level 5	STD5 280-24900/10	X0730010.D
Level 6	STD6 280-24900/9	X0730009.D
Level 7	STD7 280-24900/8	X0730008.D
Level 8	STD8 280-24900/7	X0730007.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		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
2,6-diamino-4-nitrotoluene	Ave	2830 200447	13690 283057	33162 735398	79109	113025	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
HMX	Ave	1314 95358	6234 135992	15518 385595	37288	52735	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2,4-diamino-6-nitrotoluene	Qua	1646 123150	8792 173895	20702 418450	49140	70802	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
MNX	Ave	2018 132633	9324 181608	21098 469018	49724	65875	0.0100 0.702	0.0502 1.00	0.100 2.51	0.251	0.401
RDX	Ave	1380 107521	7546 149526	17879 399760	41869	59122	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Picric acid	Lin2	979 91637	6525 127426	15427 354507	36593	51743	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
1,3,5-Trinitrobenzene	Ave	2511 243425	15710 341616	39481 902363	95184	136676	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
1,3-Dinitrobenzene	Ave	5027 310428	20919 438389	49993 1164602	121687	175204	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Tetryl	Ave	2762 191063	11690 270667	30044 728453	74921	109254	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Nitrobenzene	Lin2	2977 183002	11278 259790	27828 680512	70740	100735	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Nitroglycerin	Lin2	6404 631717	37493 900572	91149 2370612	225150	334794	0.100 7.00	0.500 10.0	1.00 25.0	2.50	4.00
2,4,6-Trinitrotoluene	Ave	2584 219460	13014 310496	32979 836594	85190	122899	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
4-Amino-2,6-dinitrotoluene	Lin2	1665 140383	7462 198815	19756 529941	53413	78640	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2-Amino-4,6-dinitrotoluene	Lin2	2267 204212	12139 286162	30683 754406	78133	114056	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2,6-Dinitrotoluene	Lin2	1619 157064	9585 215029	24315 575770	61124	89147	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

00112404

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 11:34 Calibration End Date: 07/30/2010 14:01 Calibration ID: 2393

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		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
2,4-Dinitrotoluene	Lin2	3990 277161	18741 371969	43666 965917	106597	152540	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2-Nitrotoluene	Lin2	1323 132747	9588 189076	19766 500167	54432	78037	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
4-Nitrotoluene	Lin1	1453 114046	8458 161552	17614 424491	46167	66016	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
PETN	Lin1	11366 1001495	60387 1393057	174224 3573715	404379	568950	0.100 7.00	0.500 10.0	1.00 25.0	2.50	4.00
3-Nitrotoluene	Lin1	1913 153891	11917 218081	25774 567996	61514	90182	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
1,2-Dinitrobenzene	Lin2	1853 138283	8576 193842	22012 518694	52965	77034	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
Qua = Quadratic

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

00112405

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 14:43 Calibration End Date: 07/30/2010 17:10 Calibration ID: 2394

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-24900/23	X0730023.D
Level 2	STD2 280-24900/22	X0730022.D
Level 3	STD3 280-24900/21	X0730021.D
Level 4	STD4 280-24900/20	X0730020.D
Level 5	STD5 280-24900/19	X0730019.D
Level 6	STD6 280-24900/18	X0730018.D
Level 7	STD7 280-24900/17	X0730017.D
Level 8	STD8 280-24900/16	X0730016.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
3,5-Dinitroaniline	11.201	11.198	11.195	11.199	11.204	11.197	11.195	11.195			11.049 - 11.349	11.198

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

00112406

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 14:43 Calibration End Date: 07/30/2010 17:10 Calibration ID: 2394

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-24900/23	X0730023.D
Level 2	STD2 280-24900/22	X0730022.D
Level 3	STD3 280-24900/21	X0730021.D
Level 4	STD4 280-24900/20	X0730020.D
Level 5	STD5 280-24900/19	X0730019.D
Level 6	STD6 280-24900/18	X0730018.D
Level 7	STD7 280-24900/17	X0730017.D
Level 8	STD8 280-24900/16	X0730016.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
3,5-Dinitroaniline	336100 380470	332720 353683	363250 362877	383688 367656	Ave		360055				5.2		10.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

00112407

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 24900

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2010 14:43 Calibration End Date: 07/30/2010 17:10 Calibration ID: 2394

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-24900/23	X0730023.D
Level 2	STD2 280-24900/22	X0730022.D
Level 3	STD3 280-24900/21	X0730021.D
Level 4	STD4 280-24900/20	X0730020.D
Level 5	STD5 280-24900/19	X0730019.D
Level 6	STD6 280-24900/18	X0730018.D
Level 7	STD7 280-24900/17	X0730017.D
Level 8	STD8 280-24900/16	X0730016.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		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
3,5-Dinitroaniline	Ave	3361 247578	16636 362877	36325 919140	95922	152188	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

Curve Type Legend:

Ave = Average

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-19421/10 Calibration Date: 03/17/2010 19:06

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: 010-1001.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	164657	172483		0.419	0.400	4.8	15.0
HMX	Ave	152510	147470		0.387	0.400	-3.3	15.0
RDX	Ave	189760	196408		0.414	0.400	3.5	15.0
Nitrobenzene	Ave	366326	369718		0.404	0.400	0.9	15.0
3,5-Dinitroaniline	Ave	445592	445895		0.400	0.400	0.1	15.0
1,3-Dinitrobenzene	Ave	581585	593163		0.408	0.400	2.0	15.0
Nitroglycerin	Lin2		167722		4.00	4.00	0.0	15.0
2-Nitrotoluene	Ave	230811	227310		0.394	0.400	-1.5	15.0
4-Nitrotoluene	Ave	206762	201743		0.390	0.400	-2.4	15.0
4-Amino-2,6-dinitrotoluene	Ave	264330	278490		0.421	0.400	5.4	15.0
3-Nitrotoluene	Ave	248240	249798		0.403	0.400	0.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	355219	392215		0.442	0.400	10.4	15.0
1,3,5-Trinitrobenzene	Ave	415923	419215		0.403	0.400	0.8	15.0
2,6-Dinitrotoluene	Ave	262457	267648		0.408	0.400	2.0	15.0
2,4-Dinitrotoluene	Ave	502995	519533		0.413	0.400	3.3	15.0
Tetryl	Ave	311391	325705		0.418	0.400	4.6	15.0
2,4,6-Trinitrotoluene	Ave	383391	390050		0.407	0.400	1.7	15.0
PETN	Ave	136979	135447		3.96	4.00	-1.1	15.0
1,2-Dinitrobenzene	Ave	247826	256835		0.415	0.400	3.6	20.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-19421/10 Calibration Date: 03/17/2010 19:06

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: 010-1001.D

Analyte	RT	RT WINDOW	
		TO	FROM
Picric acid	5.24	5.12	5.42
HMX	6.05	5.90	6.20
RDX	7.87	7.72	8.02
Nitrobenzene	10.49	10.34	10.64
3,5-Dinitroaniline	13.01	12.86	13.16
1,3-Dinitrobenzene	13.58	13.42	13.72
Nitroglycerin	13.59	13.44	13.74
2-Nitrotoluene	14.44	14.28	14.58
4-Nitrotoluene	14.74	14.58	14.88
4-Amino-2,6-dinitrotoluene	15.03	14.86	15.16
3-Nitrotoluene	15.59	15.43	15.73
2-Amino-4,6-dinitrotoluene	15.92	15.75	16.05
1,3,5-Trinitrobenzene	16.60	16.44	16.74
2,6-Dinitrotoluene	17.48	17.32	17.62
2,4-Dinitrotoluene	17.99	17.82	18.12
Tetryl	21.19	21.01	21.31
2,4,6-Trinitrotoluene	22.20	22.02	22.32
PETN	22.90	22.73	23.03
1,2-Dinitrobenzene	11.26	11.11	11.41

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26812/7 Calibration Date: 08/13/2010 16:37

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0813007.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	164657	164248		0.249	0.250	-0.2	15.0
HMX	Ave	152510	157444		0.258	0.250	3.2	15.0
RDX	Ave	189760	189748		0.250	0.250	0.0	15.0
Nitrobenzene	Ave	366326	370652		0.253	0.250	1.2	15.0
3,5-Dinitroaniline	Ave	445592	432272		0.243	0.250	-3.0	15.0
1,3-Dinitrobenzene	Ave	581585	600080		0.258	0.250	3.2	15.0
Nitroglycerin	Lin2		167429		2.46	2.50	-1.8	15.0
2-Nitrotoluene	Ave	230811	225324		0.244	0.250	-2.4	15.0
4-Nitrotoluene	Ave	206762	205752		0.249	0.250	-0.5	15.0
4-Amino-2,6-dinitrotoluene	Ave	264330	261852		0.248	0.250	-0.9	15.0
3-Nitrotoluene	Ave	248240	249484		0.251	0.250	0.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	355219	353484		0.249	0.250	-0.5	15.0
1,3,5-Trinitrobenzene	Ave	415923	425964		0.256	0.250	2.4	20.0
2,6-Dinitrotoluene	Ave	262457	253928		0.242	0.250	-3.2	15.0
2,4-Dinitrotoluene	Ave	502995	517416		0.257	0.250	2.9	15.0
Tetryl	Ave	311391	312492		0.251	0.250	0.4	15.0
2,4,6-Trinitrotoluene	Ave	383391	401220		0.262	0.250	4.7	15.0
PETN	Ave	136979	127226		2.32	2.50	-7.1	15.0
1,2-Dinitrobenzene	Ave	247826	261884		0.264	0.250	5.7	15.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26812/7 Calibration Date: 08/13/2010 16:37

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0813007.D

Analyte	RT	RT WINDOW	
		TO	FROM
Picric acid	5.70	5.55	5.85
HMX	6.16	6.01	6.31
RDX	7.99	7.84	8.14
Nitrobenzene	10.66	10.51	10.81
3,5-Dinitroaniline	13.22	13.07	13.37
1,3-Dinitrobenzene	13.74	13.59	13.89
Nitroglycerin	13.74	13.59	13.89
2-Nitrotoluene	14.65	14.50	14.80
4-Nitrotoluene	14.94	14.79	15.09
4-Amino-2,6-dinitrotoluene	15.28	15.13	15.43
3-Nitrotoluene	15.81	15.66	15.96
2-Amino-4,6-dinitrotoluene	16.17	16.02	16.32
1,3,5-Trinitrobenzene	16.76	16.61	16.91
2,6-Dinitrotoluene	17.71	17.56	17.86
2,4-Dinitrotoluene	18.21	18.06	18.36
Tetryl	21.41	21.26	21.56
2,4,6-Trinitrotoluene	22.38	22.23	22.53
PETN	23.07	22.92	23.22
1,2-Dinitrobenzene	11.47	11.32	11.62

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26812/16 Calibration Date: 08/13/2010 21:25

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0813016.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	164657	164900		0.250	0.250	0.1	15.0
HMX	Ave	152510	156592		0.257	0.250	2.7	15.0
RDX	Ave	189760	192876		0.254	0.250	1.6	15.0
Nitrobenzene	Ave	366326	370104		0.253	0.250	1.0	15.0
3,5-Dinitroaniline	Ave	445592	435260		0.244	0.250	-2.3	15.0
Nitroglycerin	Lin2		170325		2.50	2.50	0.1	15.0
1,3-Dinitrobenzene	Ave	581585	604040		0.260	0.250	3.9	15.0
2-Nitrotoluene	Ave	230811	225100		0.244	0.250	-2.5	15.0
4-Nitrotoluene	Ave	206762	205172		0.248	0.250	-0.8	15.0
4-Amino-2,6-dinitrotoluene	Ave	264330	261980		0.248	0.250	-0.9	15.0
3-Nitrotoluene	Ave	248240	251664		0.253	0.250	1.4	15.0
2-Amino-4,6-dinitrotoluene	Ave	355219	348832		0.246	0.250	-1.8	15.0
1,3,5-Trinitrobenzene	Ave	415923	427892		0.257	0.250	2.9	20.0
2,6-Dinitrotoluene	Ave	262457	255204		0.243	0.250	-2.8	15.0
2,4-Dinitrotoluene	Ave	502995	514484		0.256	0.250	2.3	15.0
Tetryl	Ave	311391	303464		0.244	0.250	-2.5	15.0
2,4,6-Trinitrotoluene	Ave	383391	393220		0.256	0.250	2.6	15.0
PETN	Ave	136979	127364		2.32	2.50	-7.0	15.0
1,2-Dinitrobenzene	Ave	247826	255208		0.257	0.250	3.0	15.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26812/16 Calibration Date: 08/13/2010 21:25

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0813016.D

Analyte	RT	RT WINDOW	
		TO	FROM
Picric acid	5.63	5.48	5.78
HMX	6.17	6.02	6.32
RDX	8.00	7.85	8.15
Nitrobenzene	10.68	10.53	10.83
3,5-Dinitroaniline	13.25	13.10	13.40
Nitroglycerin	13.76	13.61	13.91
1,3-Dinitrobenzene	13.77	13.62	13.92
2-Nitrotoluene	14.69	14.54	14.84
4-Nitrotoluene	14.98	14.83	15.13
4-Amino-2,6-dinitrotoluene	15.31	15.16	15.46
3-Nitrotoluene	15.84	15.69	15.99
2-Amino-4,6-dinitrotoluene	16.19	16.04	16.34
1,3,5-Trinitrobenzene	16.79	16.64	16.94
2,6-Dinitrotoluene	17.73	17.58	17.88
2,4-Dinitrotoluene	18.23	18.08	18.38
Tetryl	21.42	21.27	21.57
2,4,6-Trinitrotoluene	22.40	22.25	22.55
PETN	23.07	22.92	23.22
1,2-Dinitrobenzene	11.49	11.34	11.64

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27266/7 Calibration Date: 08/17/2010 16:12

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0817007.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	164657	164880		0.250	0.250	0.1	20.0
HMX	Ave	152510	158088		0.259	0.250	3.7	20.0
RDX	Ave	189760	192460		0.254	0.250	1.4	20.0
Nitrobenzene	Ave	366326	375720		0.256	0.250	2.6	20.0
3,5-Dinitroaniline	Ave	445592	429216		0.241	0.250	-3.7	20.0
Nitroglycerin	Lin2		170243		2.50	2.50	-0.1	20.0
1,3-Dinitrobenzene	Ave	581585	605584		0.260	0.250	4.1	20.0
2-Nitrotoluene	Ave	230811	230612		0.250	0.250	0.1	20.0
4-Nitrotoluene	Ave	206762	208100		0.252	0.250	0.6	20.0
4-Amino-2,6-dinitrotoluene	Ave	264330	260152		0.246	0.250	-1.6	20.0
3-Nitrotoluene	Ave	248240	261204		0.263	0.250	5.2	20.0
2-Amino-4,6-dinitrotoluene	Ave	355219	349500		0.246	0.250	-1.6	20.0
1,3,5-Trinitrobenzene	Ave	415923	437976		0.263	0.250	5.3	20.0
2,6-Dinitrotoluene	Ave	262457	262244		0.250	0.250	0.1	20.0
2,4-Dinitrotoluene	Ave	502995	525692		0.261	0.250	4.5	20.0
Tetryl	Ave	311391	302308		0.243	0.250	-2.9	20.0
2,4,6-Trinitrotoluene	Ave	383391	389592		0.254	0.250	1.6	20.0
PETN	Ave	136979	129301		2.36	2.50	-5.6	20.0
1,2-Dinitrobenzene	Ave	247826	262136		0.264	0.250	5.8	20.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27266/7 Calibration Date: 08/17/2010 16:12

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0817007.D

Analyte	RT	RT WINDOW	
		TO	FROM
Picric acid	5.77	5.62	5.92
HMX	6.18	6.03	6.33
RDX	8.02	7.87	8.17
Nitrobenzene	10.69	10.54	10.84
3,5-Dinitroaniline	13.27	13.12	13.42
Nitroglycerin	13.79	13.64	13.94
1,3-Dinitrobenzene	13.80	13.65	13.95
2-Nitrotoluene	14.71	14.56	14.86
4-Nitrotoluene	15.00	14.85	15.15
4-Amino-2,6-dinitrotoluene	15.33	15.18	15.48
3-Nitrotoluene	15.86	15.71	16.01
2-Amino-4,6-dinitrotoluene	16.22	16.07	16.37
1,3,5-Trinitrobenzene	16.81	16.66	16.96
2,6-Dinitrotoluene	17.75	17.60	17.90
2,4-Dinitrotoluene	18.25	18.10	18.40
Tetryl	21.45	21.30	21.60
2,4,6-Trinitrotoluene	22.43	22.28	22.58
PETN	23.11	22.96	23.26
1,2-Dinitrobenzene	11.50	11.35	11.65

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27266/15 Calibration Date: 08/17/2010 20:28

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0817015.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	164657	167696		0.255	0.250	1.8	20.0
HMX	Ave	152510	159676		0.262	0.250	4.7	20.0
RDX	Ave	189760	194848		0.257	0.250	2.7	20.0
Nitrobenzene	Ave	366326	373972		0.255	0.250	2.1	20.0
3,5-Dinitroaniline	Ave	445592	377460		0.212	0.250	-15.3	20.0
Nitroglycerin	Lin2		168457		2.47	2.50	-1.2	20.0
1,3-Dinitrobenzene	Ave	581585	532440		0.229	0.250	-8.5	20.0
2-Nitrotoluene	Ave	230811	235036		0.255	0.250	1.8	20.0
4-Nitrotoluene	Ave	206762	198412		0.240	0.250	-4.0	20.0
4-Amino-2,6-dinitrotoluene	Ave	264330	254236		0.240	0.250	-3.8	20.0
3-Nitrotoluene	Ave	248240	261052		0.263	0.250	5.2	20.0
2-Amino-4,6-dinitrotoluene	Ave	355219	332056		0.234	0.250	-6.5	20.0
1,3,5-Trinitrobenzene	Ave	415923	404300		0.243	0.250	-2.8	20.0
2,6-Dinitrotoluene	Ave	262457	275760		0.263	0.250	5.1	20.0
2,4-Dinitrotoluene	Ave	502995	562112		0.279	0.250	11.8	20.0
Tetryl	Ave	311391	298304		0.239	0.250	-4.2	20.0
2,4,6-Trinitrotoluene	Ave	383391	353012		0.230	0.250	-7.9	20.0
PETN	Ave	136979	121650		2.22	2.50	-11.2	20.0
1,2-Dinitrobenzene	Ave	247826	248920		0.251	0.250	0.4	20.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27266/15 Calibration Date: 08/17/2010 20:28

Instrument ID: CHHPLC_Q Calib Start Date: 03/17/2010 14:50

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/17/2010 18:34

Lab File ID: Q0817015.D

Analyte	RT	RT WINDOW	
		TO	FROM
Picric acid	5.71	5.56	5.86
HMX	6.19	6.04	6.34
RDX	8.02	7.87	8.17
Nitrobenzene	10.71	10.56	10.86
3,5-Dinitroaniline	13.29	13.14	13.44
Nitroglycerin	13.80	13.65	13.95
1,3-Dinitrobenzene	13.81	13.66	13.96
2-Nitrotoluene	14.72	14.57	14.87
4-Nitrotoluene	15.01	14.86	15.16
4-Amino-2,6-dinitrotoluene	15.34	15.19	15.49
3-Nitrotoluene	15.87	15.72	16.02
2-Amino-4,6-dinitrotoluene	16.21	16.06	16.36
1,3,5-Trinitrobenzene	16.81	16.66	16.96
2,6-Dinitrotoluene	17.75	17.60	17.90
2,4-Dinitrotoluene	18.25	18.10	18.40
Tetryl	21.45	21.30	21.60
2,4,6-Trinitrotoluene	22.44	22.29	22.59
PETN	23.11	22.96	23.26
1,2-Dinitrobenzene	11.52	11.37	11.67

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-24900/15 Calibration Date: 07/30/2010 14:22

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0730015.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	139838	136003		0.389	0.400	-2.7	20.0
RDX	Ave	155753	164925		0.424	0.400	5.9	20.0
Picric acid	Lin2		137265		0.397	0.400	-0.7	20.0
1,3,5-Trinitrobenzene	Ave	341606	361993		0.424	0.400	6.0	20.0
1,3-Dinitrobenzene	Ave	461683	463908		0.402	0.400	0.5	20.0
Tetryl	Ave	277282	299385		0.432	0.400	8.0	20.0
Nitrobenzene	Lin2		259373		0.396	0.400	-0.9	20.0
Nitroglycerin	Lin2		86333		3.89	4.00	-2.9	20.0
2,4,6-Trinitrotoluene	Ave	306891	322190		0.420	0.400	5.0	20.0
4-Amino-2,6-dinitrotoluene	Lin2		200515		0.406	0.400	1.4	20.0
2-Amino-4,6-dinitrotoluene	Lin2		311883		0.426	0.400	6.6	20.0
2,6-Dinitrotoluene	Lin2		216158		0.381	0.400	-4.7	20.0
2,4-Dinitrotoluene	Lin2		390820		0.395	0.400	-1.3	20.0
2-Nitrotoluene	Lin2		179098		0.360	0.400	-10.0	20.0
4-Nitrotoluene	Lin1		162605		0.388	0.400	-3.0	20.0
PETN	Lin1		148331		4.14	4.00	3.4	20.0
3-Nitrotoluene	Lin1		237875		0.421	0.400	5.3	20.0
1,2-Dinitrobenzene	Lin2		209388		0.418	0.400	4.6	20.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: ICV 280-24900/15 Calibration Date: 07/30/2010 14:22

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0730015.D

Analyte	RT	RT WINDOW	
		TO	FROM
HMX	7.58	7.43	7.73
RDX	8.85	8.71	9.01
Picric acid	9.42	9.28	9.58
1,3,5-Trinitrobenzene	9.83	9.69	9.99
1,3-Dinitrobenzene	10.69	10.55	10.85
Tetryl	11.10	10.95	11.25
Nitrobenzene	11.24	11.09	11.39
Nitroglycerin	11.47	11.31	11.61
2,4,6-Trinitrotoluene	11.99	11.83	12.13
4-Amino-2,6-dinitrotoluene	12.27	12.11	12.41
2-Amino-4,6-dinitrotoluene	12.63	12.47	12.77
2,6-Dinitrotoluene	12.86	12.71	13.01
2,4-Dinitrotoluene	13.13	12.98	13.28
2-Nitrotoluene	14.11	13.95	14.25
4-Nitrotoluene	14.63	14.48	14.78
PETN	15.17	15.01	15.31
3-Nitrotoluene	15.23	15.07	15.37
1,2-Dinitrobenzene	10.05	9.91	10.21

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: ICV 280-24900/24 Calibration Date: 07/30/2010 17:31
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0730024.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,5-Dinitroaniline	Ave	360055	373138		0.415	0.400	3.6	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: ICV 280-24900/24 Calibration Date: 07/30/2010 17:31
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0730024.D

Analyte	RT	RT WINDOW	
		TO	FROM
3,5-Dinitroaniline	11.20	11.05	11.35

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26610/7 Calibration Date: 08/12/2010 13:15

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0812007.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	139838	128468		0.230	0.250	-8.1	15.0
RDX	Ave	155753	156492		0.251	0.250	0.5	15.0
Picric acid	Lin2		133256		0.242	0.250	-3.1	15.0
1,3,5-Trinitrobenzene	Ave	341606	357068		0.261	0.250	4.5	20.0
1,3-Dinitrobenzene	Ave	461683	436972		0.237	0.250	-5.4	15.0
Tetryl	Ave	277282	257872		0.232	0.250	-7.0	15.0
Nitrobenzene	Lin2		264696		0.252	0.250	1.0	15.0
Nitroglycerin	Lin2		80550		2.28	2.50	-8.9	15.0
2,4,6-Trinitrotoluene	Ave	306891	306988		0.250	0.250	0.0	15.0
4-Amino-2,6-dinitrotoluene	Lin2		199932		0.253	0.250	1.4	15.0
2-Amino-4,6-dinitrotoluene	Lin2		303420		0.260	0.250	4.1	15.0
2,6-Dinitrotoluene	Lin2		242692		0.268	0.250	7.3	15.0
2,4-Dinitrotoluene	Lin2		459944		0.290	0.250	16.1*	15.0
2-Nitrotoluene	Lin2		194784		0.246	0.250	-1.7	15.0
4-Nitrotoluene	Lin1		165476		0.247	0.250	-1.2	15.0
PETN	Lin1		144630		2.52	2.50	0.9	15.0
3-Nitrotoluene	Lin1		218768		0.242	0.250	-3.3	15.0
1,2-Dinitrobenzene	Lin2		199804		0.250	0.250	0.1	15.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26610/7 Calibration Date: 08/12/2010 13:15

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0812007.D

Analyte	RT	RT WINDOW	
		TO	FROM
HMX	7.55	7.40	7.70
RDX	8.82	8.67	8.97
Picric acid	9.32	9.17	9.47
1,3,5-Trinitrobenzene	9.80	9.65	9.95
1,3-Dinitrobenzene	10.65	10.50	10.80
Tetryl	11.05	10.90	11.20
Nitrobenzene	11.19	11.04	11.34
Nitroglycerin	11.41	11.26	11.56
2,4,6-Trinitrotoluene	11.93	11.78	12.08
4-Amino-2,6-dinitrotoluene	12.20	12.05	12.35
2-Amino-4,6-dinitrotoluene	12.56	12.41	12.71
2,6-Dinitrotoluene	12.79	12.64	12.94
2,4-Dinitrotoluene	13.06	12.91	13.21
2-Nitrotoluene	14.02	13.87	14.17
4-Nitrotoluene	14.54	14.39	14.69
PETN	15.05	14.90	15.20
3-Nitrotoluene	15.12	14.97	15.27
1,2-Dinitrobenzene	10.02	9.87	10.17

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26610/8 Calibration Date: 08/12/2010 13:36
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0812008.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,5-Dinitroaniline	Ave	360055	367652		0.255	0.250	2.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26610/8 Calibration Date: 08/12/2010 13:36
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0812008.D

Analyte	RT	RT WINDOW	
		TO	FROM
3,5-Dinitroaniline	11.16	11.01	11.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26610/23 Calibration Date: 08/12/2010 19:03

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0812023.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	139838	131176		0.235	0.250	-6.2	15.0
RDX	Ave	155753	158772		0.255	0.250	1.9	15.0
Picric acid	Lin2		129160		0.235	0.250	-6.1	15.0
1,3,5-Trinitrobenzene	Ave	341606	311296		0.228	0.250	-8.9	20.0
1,3-Dinitrobenzene	Ave	461683	420924		0.228	0.250	-8.8	15.0
Tetryl	Ave	277282	239364		0.216	0.250	-13.7	15.0
Nitrobenzene	Lin2		250908		0.239	0.250	-4.3	15.0
Nitroglycerin	Lin2		95044		2.68	2.50	7.3	15.0
2,4,6-Trinitrotoluene	Ave	306891	292508		0.238	0.250	-4.7	15.0
4-Amino-2,6-dinitrotoluene	Lin2		184212		0.234	0.250	-6.5	15.0
2-Amino-4,6-dinitrotoluene	Lin2		264524		0.227	0.250	-9.1	15.0
2,6-Dinitrotoluene	Lin2		197196		0.219	0.250	-12.6	15.0
2,4-Dinitrotoluene	Lin2		366548		0.231	0.250	-7.5	15.0
2-Nitrotoluene	Lin2		172656		0.218	0.250	-12.7	15.0
4-Nitrotoluene	Lin1		146916		0.219	0.250	-12.3	15.0
PETN	Lin1		151338		2.64	2.50	5.6	15.0
3-Nitrotoluene	Lin1		203460		0.225	0.250	-10.1	15.0
1,2-Dinitrobenzene	Lin2		173400		0.217	0.250	-13.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26610/23 Calibration Date: 08/12/2010 19:03

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0812023.D

Analyte	RT	RT WINDOW	
		TO	FROM
HMX	7.56	7.41	7.71
RDX	8.83	8.68	8.98
Picric acid	9.33	9.18	9.48
1,3,5-Trinitrobenzene	9.81	9.66	9.96
1,3-Dinitrobenzene	10.66	10.51	10.81
Tetryl	11.05	10.90	11.20
Nitrobenzene	11.19	11.04	11.34
Nitroglycerin	11.41	11.26	11.56
2,4,6-Trinitrotoluene	11.93	11.78	12.08
4-Amino-2,6-dinitrotoluene	12.21	12.06	12.36
2-Amino-4,6-dinitrotoluene	12.57	12.42	12.72
2,6-Dinitrotoluene	12.79	12.64	12.94
2,4-Dinitrotoluene	13.06	12.91	13.21
2-Nitrotoluene	14.02	13.87	14.17
4-Nitrotoluene	14.54	14.39	14.69
PETN	15.05	14.90	15.20
3-Nitrotoluene	15.13	14.98	15.28
1,2-Dinitrobenzene	10.02	9.87	10.17

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26610/24 Calibration Date: 08/12/2010 19:24
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0812024.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,5-Dinitroaniline	Ave	360055	372480		0.259	0.250	3.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26610/24 Calibration Date: 08/12/2010 19:24
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0812024.D

Analyte	RT	RT WINDOW	
		TO	FROM
3,5-Dinitroaniline	11.16	11.01	11.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26909/7 Calibration Date: 08/13/2010 17:46

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0813007.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	139838	131408		0.235	0.250	-6.0	15.0
RDX	Ave	155753	155864		0.250	0.250	0.1	15.0
Picric acid	Lin2		129340		0.235	0.250	-6.0	15.0
1,3,5-Trinitrobenzene	Ave	341606	340968		0.250	0.250	-0.2	20.0
1,3-Dinitrobenzene	Ave	461683	454604		0.246	0.250	-1.5	15.0
Tetryl	Ave	277282	260068		0.234	0.250	-6.2	15.0
Nitrobenzene	Lin2		249884		0.238	0.250	-4.7	15.0
Nitroglycerin	Lin2		85203		2.41	2.50	-3.7	15.0
2,4,6-Trinitrotoluene	Ave	306891	304096		0.248	0.250	-0.9	15.0
4-Amino-2,6-dinitrotoluene	Lin2		184384		0.234	0.250	-6.4	15.0
2-Amino-4,6-dinitrotoluene	Lin2		268684		0.231	0.250	-7.7	15.0
2,6-Dinitrotoluene	Lin2		204732		0.227	0.250	-9.3	15.0
2,4-Dinitrotoluene	Lin2		372784		0.235	0.250	-5.9	15.0
2-Nitrotoluene	Lin2		172264		0.218	0.250	-12.9	15.0
4-Nitrotoluene	Lin1		151372		0.226	0.250	-9.6	15.0
PETN	Lin1		153526		2.68	2.50	7.1	15.0
3-Nitrotoluene	Lin1		208268		0.230	0.250	-7.9	15.0
1,2-Dinitrobenzene	Lin2		196868		0.246	0.250	-1.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26909/7 Calibration Date: 08/13/2010 17:46
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01
Lab File ID: X0813007.D

Analyte	RT	RT WINDOW	
		TO	FROM
HMX	7.56	7.41	7.71
RDX	8.83	8.68	8.98
Picric acid	9.25	9.10	9.40
1,3,5-Trinitrobenzene	9.81	9.66	9.96
1,3-Dinitrobenzene	10.65	10.50	10.80
Tetryl	11.04	10.89	11.19
Nitrobenzene	11.19	11.04	11.34
Nitroglycerin	11.40	11.25	11.55
2,4,6-Trinitrotoluene	11.92	11.77	12.07
4-Amino-2,6-dinitrotoluene	12.20	12.05	12.35
2-Amino-4,6-dinitrotoluene	12.55	12.40	12.70
2,6-Dinitrotoluene	12.78	12.63	12.93
2,4-Dinitrotoluene	13.05	12.90	13.20
2-Nitrotoluene	14.01	13.86	14.16
4-Nitrotoluene	14.52	14.37	14.67
PETN	15.03	14.88	15.18
3-Nitrotoluene	15.11	14.96	15.26
1,2-Dinitrobenzene	10.02	9.87	10.17

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26909/8 Calibration Date: 08/13/2010 18:07
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0813008.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,5-Dinitroaniline	Ave	360055	369740		0.257	0.250	2.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26909/8 Calibration Date: 08/13/2010 18:07
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0813008.D

Analyte	RT	RT WINDOW	
		TO	FROM
3,5-Dinitroaniline	11.15	11.00	11.30

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26909/10 Calibration Date: 08/13/2010 18:49

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0813010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	139838	130552		0.233	0.250	-6.6	15.0
RDX	Ave	155753	153784		0.247	0.250	-1.3	15.0
Picric acid	Lin2		128540		0.234	0.250	-6.5	15.0
1,3,5-Trinitrobenzene	Ave	341606	323208		0.237	0.250	-5.4	20.0
1,3-Dinitrobenzene	Ave	461683	434152		0.235	0.250	-6.0	15.0
Tetryl	Ave	277282	243932		0.220	0.250	-12.0	15.0
Nitrobenzene	Lin2		243808		0.232	0.250	-7.0	15.0
Nitroglycerin	Lin2		96166		2.71	2.50	8.6	15.0
2,4,6-Trinitrotoluene	Ave	306891	293032		0.239	0.250	-4.5	15.0
4-Amino-2,6-dinitrotoluene	Lin2		174532		0.222	0.250	-11.4	15.0
2-Amino-4,6-dinitrotoluene	Lin2		256876		0.221	0.250	-11.7	15.0
2,6-Dinitrotoluene	Lin2		203604		0.226	0.250	-9.8	15.0
2,4-Dinitrotoluene	Lin2		373884		0.236	0.250	-5.6	15.0
2-Nitrotoluene	Lin2		170632		0.216	0.250	-13.7	15.0
4-Nitrotoluene	Lin1		150764		0.225	0.250	-10.0	15.0
PETN	Lin1		129478		2.26	2.50	-9.6	15.0
3-Nitrotoluene	Lin1		207312		0.229	0.250	-8.3	15.0
1,2-Dinitrobenzene	Lin2		192908		0.241	0.250	-3.5	15.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-26909/10 Calibration Date: 08/13/2010 18:49

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0813010.D

Analyte	RT	RT WINDOW	
		TO	FROM
HMX	7.56	7.41	7.71
RDX	8.83	8.68	8.98
Picric acid	9.26	9.11	9.41
1,3,5-Trinitrobenzene	9.81	9.66	9.96
1,3-Dinitrobenzene	10.66	10.51	10.81
Tetryl	11.04	10.89	11.19
Nitrobenzene	11.19	11.04	11.34
Nitroglycerin	11.40	11.25	11.55
2,4,6-Trinitrotoluene	11.92	11.77	12.07
4-Amino-2,6-dinitrotoluene	12.20	12.05	12.35
2-Amino-4,6-dinitrotoluene	12.56	12.41	12.71
2,6-Dinitrotoluene	12.78	12.63	12.93
2,4-Dinitrotoluene	13.05	12.90	13.20
2-Nitrotoluene	14.01	13.86	14.16
4-Nitrotoluene	14.53	14.38	14.68
PETN	15.04	14.89	15.19
3-Nitrotoluene	15.11	14.96	15.26
1,2-Dinitrobenzene	10.02	9.87	10.17

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26909/11 Calibration Date: 08/13/2010 19:10
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0813011.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,5-Dinitroaniline	Ave	360055	366600		0.255	0.250	1.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-26909/11 Calibration Date: 08/13/2010 19:10
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0813011.D

Analyte	RT	RT WINDOW	
		TO	FROM
3,5-Dinitroaniline	11.15	11.00	11.30

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27102/7 Calibration Date: 08/16/2010 16:06

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0816007.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	139838	130040		0.232	0.250	-7.0	20.0
RDX	Ave	155753	159548		0.256	0.250	2.4	20.0
Picric acid	Lin2		127788		0.232	0.250	-7.1	20.0
1,3,5-Trinitrobenzene	Ave	341606	339956		0.249	0.250	-0.5	20.0
1,3-Dinitrobenzene	Ave	461683	446044		0.242	0.250	-3.4	20.0
Tetryl	Ave	277282	263332		0.237	0.250	-5.0	20.0
Nitrobenzene	Lin2		272616		0.260	0.250	4.0	20.0
Nitroglycerin	Lin2		81876		2.32	2.50	-7.4	20.0
2,4,6-Trinitrotoluene	Ave	306891	316328		0.258	0.250	3.1	20.0
4-Amino-2,6-dinitrotoluene	Lin2		197968		0.251	0.250	0.4	20.0
2-Amino-4,6-dinitrotoluene	Lin2		285772		0.245	0.250	-1.9	20.0
2,6-Dinitrotoluene	Lin2		217048		0.240	0.250	-3.9	20.0
2,4-Dinitrotoluene	Lin2		381716		0.241	0.250	-3.6	20.0
2-Nitrotoluene	Lin2		191088		0.241	0.250	-3.5	20.0
4-Nitrotoluene	Lin1		169348		0.253	0.250	1.1	20.0
PETN	Lin1		142279		2.48	2.50	-0.7	20.0
3-Nitrotoluene	Lin1		227584		0.252	0.250	0.6	20.0
1,2-Dinitrobenzene	Lin2		196404		0.246	0.250	-1.8	20.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27102/7 Calibration Date: 08/16/2010 16:06

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0816007.D

Analyte	RT	RT WINDOW	
		TO	FROM
HMX	7.55	7.40	7.70
RDX	8.83	8.68	8.98
Picric acid	9.23	9.08	9.38
1,3,5-Trinitrobenzene	9.81	9.66	9.96
1,3-Dinitrobenzene	10.65	10.50	10.80
Tetryl	11.05	10.90	11.20
Nitrobenzene	11.19	11.04	11.34
Nitroglycerin	11.41	11.26	11.56
2,4,6-Trinitrotoluene	11.93	11.78	12.08
4-Amino-2,6-dinitrotoluene	12.20	12.05	12.35
2-Amino-4,6-dinitrotoluene	12.55	12.40	12.70
2,6-Dinitrotoluene	12.79	12.64	12.94
2,4-Dinitrotoluene	13.05	12.90	13.20
2-Nitrotoluene	14.01	13.86	14.16
4-Nitrotoluene	14.53	14.38	14.68
PETN	15.03	14.88	15.18
3-Nitrotoluene	15.11	14.96	15.26
1,2-Dinitrobenzene	10.01	9.86	10.16

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27102/8 Calibration Date: 08/16/2010 16:27
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0816008.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,5-Dinitroaniline	Ave	360055	348668		0.242	0.250	-3.2	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27102/8 Calibration Date: 08/16/2010 16:27
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0816008.D

Analyte	RT	RT WINDOW	
		TO	FROM
3,5-Dinitroaniline	11.16	11.01	11.31

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27102/21 Calibration Date: 08/16/2010 21:00

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0816021.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	139838	129152		0.231	0.250	-7.6	20.0
RDX	Ave	155753	153240		0.246	0.250	-1.6	20.0
Picric acid	Lin2		137120		0.249	0.250	-0.4	20.0
1,3,5-Trinitrobenzene	Ave	341606	349808		0.256	0.250	2.4	20.0
1,3-Dinitrobenzene	Ave	461683	446032		0.242	0.250	-3.4	20.0
Tetryl	Ave	277282	260332		0.235	0.250	-6.1	20.0
Nitrobenzene	Lin2		265720		0.253	0.250	1.4	20.0
Nitroglycerin	Lin2		82126		2.32	2.50	-7.1	20.0
2,4,6-Trinitrotoluene	Ave	306891	314108		0.256	0.250	2.4	20.0
4-Amino-2,6-dinitrotoluene	Lin2		195816		0.248	0.250	-0.7	20.0
2-Amino-4,6-dinitrotoluene	Lin2		287132		0.246	0.250	-1.5	20.0
2,6-Dinitrotoluene	Lin2		223184		0.247	0.250	-1.2	20.0
2,4-Dinitrotoluene	Lin2		386248		0.244	0.250	-2.5	20.0
2-Nitrotoluene	Lin2		180712		0.228	0.250	-8.7	20.0
4-Nitrotoluene	Lin1		156396		0.233	0.250	-6.6	20.0
PETN	Lin1		142122		2.48	2.50	-0.8	20.0
3-Nitrotoluene	Lin1		212488		0.235	0.250	-6.1	20.0
1,2-Dinitrobenzene	Lin2		198936		0.249	0.250	-0.5	20.0

FORM VII

HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Lab Sample ID: CCV 280-27102/21 Calibration Date: 08/16/2010 21:00

Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 11:34

GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 14:01

Lab File ID: X0816021.D

Analyte	RT	RT WINDOW	
		TO	FROM
HMX	7.55	7.40	7.70
RDX	8.83	8.68	8.98
Picric acid	9.30	9.08	9.38
1,3,5-Trinitrobenzene	9.80	9.66	9.96
1,3-Dinitrobenzene	10.65	10.50	10.80
Tetryl	11.05	10.90	11.20
Nitrobenzene	11.19	11.04	11.34
Nitroglycerin	11.41	11.26	11.56
2,4,6-Trinitrotoluene	11.93	11.78	12.08
4-Amino-2,6-dinitrotoluene	12.21	12.06	12.36
2-Amino-4,6-dinitrotoluene	12.56	12.41	12.71
2,6-Dinitrotoluene	12.79	12.64	12.94
2,4-Dinitrotoluene	13.06	12.91	13.21
2-Nitrotoluene	14.01	13.86	14.16
4-Nitrotoluene	14.52	14.38	14.68
PETN	15.02	14.87	15.17
3-Nitrotoluene	15.10	14.95	15.25
1,2-Dinitrobenzene	10.02	9.86	10.16

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27102/22 Calibration Date: 08/16/2010 21:21
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0816022.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,5-Dinitroaniline	Ave	360055	352796		0.245	0.250	-2.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27102/22 Calibration Date: 08/16/2010 21:21
Instrument ID: CHHPLC_X3 Calib Start Date: 07/30/2010 14:43
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 07/30/2010 17:10
Lab File ID: X0816022.D

Analyte	RT	RT WINDOW	
		TO	FROM
3,5-Dinitroaniline	11.16	11.01	11.31

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26077/5-A

Matrix: Water Lab File ID: X0812014.D

Analysis Method: 8330B Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/09/2010 14:35

Sample wt/vol: 500 (mL) Date Analyzed: 08/12/2010 15:54

Con. Extract Vol.: 5000 (uL) Dilution Factor: 1

Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 26610 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.15	U	0.20	0.051
19406-51-0	4-Amino-2,6-dinitrotoluene	0.15	U	0.20	0.058
121-14-2	2,4-Dinitrotoluene	0.15	U	0.40	0.084
606-20-2	2,6-Dinitrotoluene	0.15	U	0.20	0.064
88-72-2	o-Nitrotoluene	0.15	U	0.40	0.086
99-08-1	m-Nitrotoluene	0.15	U	0.40	0.083
98-95-3	Nitrobenzene	0.15	U	0.40	0.091
99-99-0	p-Nitrotoluene	0.40	U	1.0	0.20
99-35-4	1,3,5-Trinitrobenzene	0.40	U	1.0	0.20
99-65-0	1,3-Dinitrobenzene	0.15	U	0.40	0.089
2691-41-0	HMX	0.15	U	0.40	0.088
121-82-4	RDX	0.15	U	0.20	0.052
479-45-8	Tetryl	0.15	U	0.24	0.079
118-96-7	2,4,6-Trinitrotoluene	0.15	U	0.40	0.072
618-87-1	3,5-Dinitroaniline	0.14	U	0.40	0.13

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	115	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26077/5-A

Matrix: Water Lab File ID: Q0813009.D

Analysis Method: 8330B Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/09/2010 14:35

Sample wt/vol: 500 (mL) Date Analyzed: 08/13/2010 17:41

Con. Extract Vol.: 5000 (uL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: Luna-phenylhex ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 26812 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.15	U	0.20	0.051
19406-51-0	4-Amino-2,6-dinitrotoluene	0.317		0.20	0.058
121-14-2	2,4-Dinitrotoluene	0.15	U	0.40	0.084
606-20-2	2,6-Dinitrotoluene	0.15	U	0.20	0.064
88-72-2	o-Nitrotoluene	0.15	U	0.40	0.086
99-08-1	m-Nitrotoluene	0.15	U	0.40	0.083
98-95-3	Nitrobenzene	0.15	U	0.40	0.091
99-99-0	p-Nitrotoluene	0.40	U	1.0	0.20
99-35-4	1,3,5-Trinitrobenzene	0.40	U	1.0	0.20
99-65-0	1,3-Dinitrobenzene	0.15	U	0.40	0.089
2691-41-0	HMX	0.15	U	0.40	0.088
121-82-4	RDX	0.15	U	0.20	0.052
479-45-8	Tetryl	0.15	U	0.24	0.079
118-96-7	2,4,6-Trinitrotoluene	0.15	U	0.40	0.072
618-87-1	3,5-Dinitroaniline	0.14	U	0.40	0.13

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	115	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26688/1-A

Matrix: Solid Lab File ID: X0816009.D

Analysis Method: 8330B Date Collected: _____

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10(g) Date Analyzed: 08/16/2010 16:48

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.040	U	0.10	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.040	U	0.10	0.030
121-14-2	2,4-Dinitrotoluene	0.040	U	0.10	0.015
606-20-2	2,6-Dinitrotoluene	0.040	U	0.10	0.019
88-72-2	2-Nitrotoluene	0.080	U	0.20	0.047
99-08-1	3-Nitrotoluene	0.080	U	0.20	0.064
98-95-3	Nitrobenzene	0.080	U	0.30	0.085
99-99-0	4-Nitrotoluene	0.10	U	0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.040	U	0.10	0.014
99-65-0	1,3-Dinitrobenzene	0.040	U	0.10	0.017
2691-41-0	HMX	0.040	U	0.10	0.023
121-82-4	RDX	0.080	U	0.20	0.043
479-45-8	Tetryl	0.080	U	0.20	0.044
118-96-7	2,4,6-Trinitrotoluene	0.040	U	0.10	0.031
618-87-1	3,5-Dinitroaniline	0.040	U	0.10	0.0090

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-26688/1-A
Matrix: Solid Lab File ID: X0816009.D
Analysis Method: 8330B Date Collected: _____
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10(g) Date Analyzed: 08/16/2010 16:48
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	104	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-26688/1-A

Matrix: Solid Lab File ID: Q0817008.D

Analysis Method: 8330B Date Collected: _____

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10(g) Date Analyzed: 08/17/2010 16:44

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27266 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.040	U	0.10	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.040	U	0.10	0.030
121-14-2	2,4-Dinitrotoluene	0.040	U	0.10	0.015
606-20-2	2,6-Dinitrotoluene	0.040	U	0.10	0.019
88-72-2	2-Nitrotoluene	0.080	U	0.20	0.047
99-08-1	3-Nitrotoluene	0.080	U	0.20	0.064
98-95-3	Nitrobenzene	0.080	U	0.30	0.085
99-99-0	4-Nitrotoluene	0.10	U	0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.040	U	0.10	0.014
99-65-0	1,3-Dinitrobenzene	0.040	U	0.10	0.017
2691-41-0	HMX	0.040	U	0.10	0.023
121-82-4	RDX	0.080	U	0.20	0.043
479-45-8	Tetryl	0.080	U	0.20	0.044
118-96-7	2,4,6-Trinitrotoluene	0.040	U	0.10	0.031
618-87-1	3,5-Dinitroaniline	0.040	U	0.10	0.0090

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-26688/1-A
Matrix: Solid Lab File ID: Q0817008.D
Analysis Method: 8330B Date Collected: _____
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10(g) Date Analyzed: 08/17/2010 16:44
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: Luna-phenylhex ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27266 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	108	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26077/6-A

Matrix: Water Lab File ID: X0812015.D

Analysis Method: 8330B Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/09/2010 14:35

Sample wt/vol: 500 (mL) Date Analyzed: 08/12/2010 16:15

Con. Extract Vol.: 5000 (uL) Dilution Factor: 1

Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 26610 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	2.18		0.20	0.051
19406-51-0	4-Amino-2,6-dinitrotoluene	2.01		0.20	0.058
121-14-2	2,4-Dinitrotoluene	2.11		0.40	0.084
606-20-2	2,6-Dinitrotoluene	1.95		0.20	0.064
88-72-2	o-Nitrotoluene	1.38		0.40	0.086
99-08-1	m-Nitrotoluene	1.82		0.40	0.083
98-95-3	Nitrobenzene	1.61		0.40	0.091
99-99-0	p-Nitrotoluene	1.67		1.0	0.20
99-35-4	1,3,5-Trinitrobenzene	1.78		1.0	0.20
99-65-0	1,3-Dinitrobenzene	2.10		0.40	0.089
2691-41-0	HMX	1.93		0.40	0.088
121-82-4	RDX	1.94		0.20	0.052
479-45-8	Tetryl	2.13		0.24	0.079
118-96-7	2,4,6-Trinitrotoluene	2.15		0.40	0.072

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	94	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26077/8-A
Matrix: Water Lab File ID: X0812017.D
Analysis Method: 8330B Date Collected: _____
Extraction Method: 3535 Date Extracted: 08/09/2010 14:35
Sample wt/vol: 500 (mL) Date Analyzed: 08/12/2010 16:57
Con. Extract Vol.: 5000 (uL) Dilution Factor: 1
Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 26610 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
618-87-1	3,5-Dinitroaniline	1.89		0.40	0.13

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	107	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-26688/2-A

Matrix: Solid Lab File ID: X0816010.D

Analysis Method: 8330B Date Collected: _____

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10(g) Date Analyzed: 08/16/2010 17:09

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	1.09		0.10	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	1.06		0.10	0.030
121-14-2	2,4-Dinitrotoluene	1.01		0.10	0.015
606-20-2	2,6-Dinitrotoluene	0.967		0.10	0.019
88-72-2	2-Nitrotoluene	0.979		0.20	0.047
99-08-1	3-Nitrotoluene	1.03		0.20	0.064
98-95-3	Nitrobenzene	1.00		0.30	0.085
99-99-0	4-Nitrotoluene	1.02		0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	1.07		0.10	0.014
99-65-0	1,3-Dinitrobenzene	0.991		0.10	0.017
2691-41-0	HMX	0.900		0.10	0.023
121-82-4	RDX	1.05		0.20	0.043
479-45-8	Tetryl	1.09		0.20	0.044
118-96-7	2,4,6-Trinitrotoluene	1.05		0.10	0.031

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26688/2-A
Matrix: Solid Lab File ID: X0816010.D
Analysis Method: 8330B Date Collected: _____
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10(g) Date Analyzed: 08/16/2010 17:09
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	104	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26688/3-A
Matrix: Solid Lab File ID: X0816011.D
Analysis Method: 8330B Date Collected: _____
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10(g) Date Analyzed: 08/16/2010 17:30
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
618-87-1	3,5-Dinitroaniline	1.05		0.10	0.0090

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26688/3-A
Matrix: Solid Lab File ID: X0816011.D
Analysis Method: 8330B Date Collected: _____
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10(g) Date Analyzed: 08/16/2010 17:30
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	105	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-26077/7-A

Matrix: Water Lab File ID: X0813009.D

Analysis Method: 8330B Date Collected: _____

Extraction Method: 3535 Date Extracted: 08/09/2010 14:35

Sample wt/vol: 500 (mL) Date Analyzed: 08/13/2010 18:28

Con. Extract Vol.: 5000 (uL) Dilution Factor: 1

Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 26909 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	2.00		0.20	0.051
19406-51-0	4-Amino-2,6-dinitrotoluene	1.83		0.20	0.058
121-14-2	2,4-Dinitrotoluene	1.91		0.40	0.084
606-20-2	2,6-Dinitrotoluene	1.77		0.20	0.064
88-72-2	o-Nitrotoluene	1.20		0.40	0.086
99-08-1	m-Nitrotoluene	1.48		0.40	0.083
98-95-3	Nitrobenzene	1.44		0.40	0.091
99-99-0	p-Nitrotoluene	1.43		1.0	0.20
99-35-4	1,3,5-Trinitrobenzene	1.97		1.0	0.20
99-65-0	1,3-Dinitrobenzene	1.94		0.40	0.089
2691-41-0	HMX	1.63		0.40	0.088
121-82-4	RDX	2.10		0.20	0.052
479-45-8	Tetryl	1.93		0.24	0.079
118-96-7	2,4,6-Trinitrotoluene	1.92		0.40	0.072

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	106	75-118	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-26077/9-A
Matrix: Water Lab File ID: X0812018.D
Analysis Method: 8330B Date Collected: _____
Extraction Method: 3535 Date Extracted: 08/09/2010 14:35
Sample wt/vol: 500 (mL) Date Analyzed: 08/12/2010 17:18
Con. Extract Vol.: 5000 (uL) Dilution Factor: 1
Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 26610 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
618-87-1	3,5-Dinitroaniline	1.97	Q	0.40	0.13

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	119	75-118	Q

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1- MS Lab Sample ID: 280-6075-1 MS

Matrix: Solid Lab File ID: X0816013.D

Analysis Method: 8330B Date Collected: 08/02/2010 09:45

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10.10(g) Date Analyzed: 08/16/2010 18:12

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	1.10		0.099	0.033
19406-51-0	4-Amino-2,6-dinitrotoluene	0.936		0.099	0.030
121-14-2	2,4-Dinitrotoluene	1.06		0.099	0.015
606-20-2	2,6-Dinitrotoluene	1.09		0.099	0.019
88-72-2	2-Nitrotoluene	0.935		0.20	0.047
99-08-1	3-Nitrotoluene	0.969		0.20	0.063
98-95-3	Nitrobenzene	1.02		0.30	0.084
99-99-0	4-Nitrotoluene	0.984		0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.976		0.099	0.014
99-65-0	1,3-Dinitrobenzene	1.00		0.099	0.016
2691-41-0	HMX	0.853		0.099	0.022
121-82-4	RDX	0.908		0.20	0.043
479-45-8	Tetryl	1.10		0.20	0.043
118-96-7	2,4,6-Trinitrotoluene	1.02		0.099	0.030

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1- MS Lab Sample ID: 280-6075-1 MS
Matrix: Solid Lab File ID: X0816013.D
Analysis Method: 8330B Date Collected: 08/02/2010 09:45
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.10(g) Date Analyzed: 08/16/2010 18:12
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	102	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- MS Lab Sample ID: 280-6075-2 MS
Matrix: Solid Lab File ID: X0816016.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:10
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.00(g) Date Analyzed: 08/16/2010 19:15
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
618-87-1	3,5-Dinitroaniline	1.04		0.10	0.0090

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- MS Lab Sample ID: 280-6075-2 MS
Matrix: Solid Lab File ID: X0816016.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:10
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.00(g) Date Analyzed: 08/16/2010 19:15
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	103	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Client Sample ID: SS1- MSD Lab Sample ID: 280-6075-1 MSD

Matrix: Solid Lab File ID: X0816014.D

Analysis Method: 8330B Date Collected: 08/02/2010 09:45

Extraction Method: 8330B Date Extracted: 08/13/2010 08:55

Sample wt/vol: 10.16(g) Date Analyzed: 08/16/2010 18:33

Con. Extract Vol.: 40000(uL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.936		0.098	0.032
19406-51-0	4-Amino-2,6-dinitrotoluene	0.799		0.098	0.029
121-14-2	2,4-Dinitrotoluene	0.970		0.098	0.014
606-20-2	2,6-Dinitrotoluene	0.980		0.098	0.019
88-72-2	2-Nitrotoluene	0.823		0.20	0.046
99-08-1	3-Nitrotoluene	0.841		0.20	0.063
98-95-3	Nitrobenzene	0.930		0.30	0.084
99-99-0	4-Nitrotoluene	0.822		0.20	0.036
99-35-4	1,3,5-Trinitrobenzene	0.900		0.098	0.014
99-65-0	1,3-Dinitrobenzene	0.901		0.098	0.016
2691-41-0	HMX	0.802		0.098	0.022
121-82-4	RDX	0.873		0.20	0.042
479-45-8	Tetryl	1.02		0.20	0.043
118-96-7	2,4,6-Trinitrotoluene	0.891		0.098	0.030

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1- MSD Lab Sample ID: 280-6075-1 MSD
Matrix: Solid Lab File ID: X0816014.D
Analysis Method: 8330B Date Collected: 08/02/2010 09:45
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.16(g) Date Analyzed: 08/16/2010 18:33
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	93	83-122	

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- MSD Lab Sample ID: 280-6075-2 MSD
Matrix: Solid Lab File ID: X0816017.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:10
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.15(g) Date Analyzed: 08/16/2010 19:36
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
618-87-1	3,5-Dinitroaniline	0.979		0.099	0.0089

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- MSD Lab Sample ID: 280-6075-2 MSD
Matrix: Solid Lab File ID: X0816017.D
Analysis Method: 8330B Date Collected: 08/02/2010 10:10
Extraction Method: 8330B Date Extracted: 08/13/2010 08:55
Sample wt/vol: 10.15(g) Date Analyzed: 08/16/2010 19:36
Con. Extract Vol.: 40000(uL) Dilution Factor: 1
Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27102 Units: ug/mL

CAS NO.	SURROGATE	%REC	LIMITS	Q
528-29-0	1,2-Dinitrobenzene	106	83-122	

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_Q Start Date: 03/17/2010 14:50Analysis Batch Number: 19421 End Date: 03/17/2010 19:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD56873 280-19421/2 IC		03/17/2010 14:50	1	002-0201.D	Luna-phenylhex 4.6 (mm)
STD56902 280-19421/3 IC		03/17/2010 15:22	1	003-0301.D	Luna-phenylhex 4.6 (mm)
STD56904 280-19421/4 IC		03/17/2010 15:54	1	004-0401.D	Luna-phenylhex 4.6 (mm)
STD56905 280-19421/5 IC		03/17/2010 16:26	1	005-0501.D	Luna-phenylhex 4.6 (mm)
STD56906 280-19421/6 IC		03/17/2010 16:58	1	006-0601.D	Luna-phenylhex 4.6 (mm)
STD56907 280-19421/7 IC		03/17/2010 17:30	1	007-0701.D	Luna-phenylhex 4.6 (mm)
STD56908 280-19421/8 IC		03/17/2010 18:02	1	008-0801.D	Luna-phenylhex 4.6 (mm)
STD56909 280-19421/9 IC		03/17/2010 18:34	1	009-0901.D	Luna-phenylhex 4.6 (mm)
ICV 280-19421/10		03/17/2010 19:06	1	010-1001.D	Luna-phenylhex 4.6 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_Q Start Date: 08/13/2010 16:37Analysis Batch Number: 26812 End Date: 08/13/2010 21:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-26812/7		08/13/2010 16:37	1	Q0813007.D	Luna-phenylhex 4.6 (mm)
MB 280-26077/5-A		08/13/2010 17:41	1	Q0813009.D	Luna-phenylhex 4.6 (mm)
280-6075-5	NE SUMP-	08/13/2010 18:45	1	Q0813011.D	Luna-phenylhex 4.6 (mm)
280-6075-6	SW SUMP-	08/13/2010 19:17	1	Q0813012.D	Luna-phenylhex 4.6 (mm)
280-6075-7	RINSATE	08/13/2010 19:49	1	Q0813013.D	Luna-phenylhex 4.6 (mm)
CCV 280-26812/16		08/13/2010 21:25	1	Q0813016.D	Luna-phenylhex 4.6 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_Q Start Date: 08/17/2010 16:12Analysis Batch Number: 27266 End Date: 08/17/2010 20:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-27266/7		08/17/2010 16:12	1	Q0817007.D	Luna-phenylhex 4.6 (mm)
MB 280-26688/1-A		08/17/2010 16:44	1	Q0817008.D	Luna-phenylhex 4.6 (mm)
280-6075-2	SS2-	08/17/2010 17:16	1	Q0817009.D	Luna-phenylhex 4.6 (mm)
280-6075-8	SS1-DUP-	08/17/2010 17:48	1	Q0817010.D	Luna-phenylhex 4.6 (mm)
CCV 280-27266/15		08/17/2010 20:28	1	Q0817015.D	Luna-phenylhex 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Start Date: 07/30/2010 11:34

Analysis Batch Number: 24900 End Date: 07/31/2010 17:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD8 280-24900/7 IC		07/30/2010 11:34	1	X0730007.D	UltraCarb5uODS 4.6 (mm)
STD7 280-24900/8 IC		07/30/2010 11:55	1	X0730008.D	UltraCarb5uODS 4.6 (mm)
STD6 280-24900/9 IC		07/30/2010 12:16	1	X0730009.D	UltraCarb5uODS 4.6 (mm)
STD5 280-24900/10 IC		07/30/2010 12:37	1	X0730010.D	UltraCarb5uODS 4.6 (mm)
STD4 280-24900/11 IC		07/30/2010 12:58	1	X0730011.D	UltraCarb5uODS 4.6 (mm)
STD3 280-24900/12 IC		07/30/2010 13:19	1	X0730012.D	UltraCarb5uODS 4.6 (mm)
STD2 280-24900/13 IC		07/30/2010 13:40	1	X0730013.D	UltraCarb5uODS 4.6 (mm)
STD1 280-24900/14 IC		07/30/2010 14:01	1	X0730014.D	UltraCarb5uODS 4.6 (mm)
ICV 280-24900/15		07/30/2010 14:22	1	X0730015.D	UltraCarb5uODS 4.6 (mm)
STD8 280-24900/16 IC		07/30/2010 14:43	1	X0730016.D	UltraCarb5uODS 4.6 (mm)
STD7 280-24900/17 IC		07/30/2010 15:04	1	X0730017.D	UltraCarb5uODS 4.6 (mm)
STD6 280-24900/18 IC		07/30/2010 15:25	1	X0730018.D	UltraCarb5uODS 4.6 (mm)
STD5 280-24900/19 IC		07/30/2010 15:46	1	X0730019.D	UltraCarb5uODS 4.6 (mm)
STD4 280-24900/20 IC		07/30/2010 16:07	1	X0730020.D	UltraCarb5uODS 4.6 (mm)
STD3 280-24900/21 IC		07/30/2010 16:28	1	X0730021.D	UltraCarb5uODS 4.6 (mm)
STD2 280-24900/22 IC		07/30/2010 16:49	1	X0730022.D	UltraCarb5uODS 4.6 (mm)
STD1 280-24900/23 IC		07/30/2010 17:10	1	X0730023.D	UltraCarb5uODS 4.6 (mm)
ICV 280-24900/24		07/30/2010 17:31	1	X0730024.D	UltraCarb5uODS 4.6 (mm)
CCV 280-24900/36		07/30/2010 21:43	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/37		07/30/2010 22:04	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/30/2010 23:50	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 00:11	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 00:32	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 00:53	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/46		07/31/2010 01:14	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/47		07/31/2010 01:35	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 01:56	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 02:17	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 02:38	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 02:59	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 03:20	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 03:41	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 04:02	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 04:23	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 04:44	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/57		07/31/2010 05:05	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/58		07/31/2010 05:26	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 05:47	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 06:08	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 06:29	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 06:50	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 07:11	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 07:32	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 07:53	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		07/31/2010 08:14	1		UltraCarb5uODS 4.6 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Start Date: 07/30/2010 11:34Analysis Batch Number: 24900 End Date: 07/31/2010 17:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/31/2010 08:35	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/68		07/31/2010 08:56	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/69		07/31/2010 09:55	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/79		07/31/2010 13:40	1		UltraCarb5uODS 4.6 (mm)
CCV 280-24900/90		07/31/2010 17:59	1		UltraCarb5uODS 4.6 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Start Date: 08/12/2010 13:15Analysis Batch Number: 26610 End Date: 08/12/2010 19:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-26610/7		08/12/2010 13:15	1	X0812007.D	UltraCarb5uODS 4.6 (mm)
CCV 280-26610/8		08/12/2010 13:36	1	X0812008.D	UltraCarb5uODS 4.6 (mm)
MB 280-26077/5-A		08/12/2010 15:54	1	X0812014.D	UltraCarb5uODS 4.6 (mm)
LCS 280-26077/6-A		08/12/2010 16:15	1	X0812015.D	UltraCarb5uODS 4.6 (mm)
LCS 280-26077/8-A		08/12/2010 16:57	1	X0812017.D	UltraCarb5uODS 4.6 (mm)
LCSD 280-26077/9-A		08/12/2010 17:18	1	X0812018.D	UltraCarb5uODS 4.6 (mm)
280-6075-5	NE SUMP-	08/12/2010 18:00	1	X0812020.D	UltraCarb5uODS 4.6 (mm)
280-6075-6	SW SUMP-	08/12/2010 18:21	1	X0812021.D	UltraCarb5uODS 4.6 (mm)
280-6075-7	RINSATE	08/12/2010 18:42	1	X0812022.D	UltraCarb5uODS 4.6 (mm)
CCV 280-26610/23		08/12/2010 19:03	1	X0812023.D	UltraCarb5uODS 4.6 (mm)
CCV 280-26610/24		08/12/2010 19:24	1	X0812024.D	UltraCarb5uODS 4.6 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Start Date: 08/13/2010 17:46Analysis Batch Number: 26909 End Date: 08/13/2010 19:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-26909/7		08/13/2010 17:46	1	X0813007.D	UltraCarb5uODS 4.6 (mm)
CCV 280-26909/8		08/13/2010 18:07	1	X0813008.D	UltraCarb5uODS 4.6 (mm)
LCSD 280-26077/7-A		08/13/2010 18:28	1	X0813009.D	UltraCarb5uODS 4.6 (mm)
CCV 280-26909/10		08/13/2010 18:49	1	X0813010.D	UltraCarb5uODS 4.6 (mm)
CCV 280-26909/11		08/13/2010 19:10	1	X0813011.D	UltraCarb5uODS 4.6 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Start Date: 08/16/2010 16:06Analysis Batch Number: 27102 End Date: 08/16/2010 21:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-27102/7		08/16/2010 16:06	1	X0816007.D	UltraCarb5uODS 4.6 (mm)
CCV 280-27102/8		08/16/2010 16:27	1	X0816008.D	UltraCarb5uODS 4.6 (mm)
MB 280-26688/1-A		08/16/2010 16:48	1	X0816009.D	UltraCarb5uODS 4.6 (mm)
LCS 280-26688/2-A		08/16/2010 17:09	1	X0816010.D	UltraCarb5uODS 4.6 (mm)
LCS 280-26688/3-A		08/16/2010 17:30	1	X0816011.D	UltraCarb5uODS 4.6 (mm)
280-6075-1	SS1-	08/16/2010 17:51	1	X0816012.D	UltraCarb5uODS 4.6 (mm)
280-6075-1 MS	SS1- MS	08/16/2010 18:12	1	X0816013.D	UltraCarb5uODS 4.6 (mm)
280-6075-1 MSD	SS1- MSD	08/16/2010 18:33	1	X0816014.D	UltraCarb5uODS 4.6 (mm)
280-6075-2	SS2-	08/16/2010 18:54	1	X0816015.D	UltraCarb5uODS 4.6 (mm)
280-6075-2 MS	SS2- MS	08/16/2010 19:15	1	X0816016.D	UltraCarb5uODS 4.6 (mm)
280-6075-2 MSD	SS2- MSD	08/16/2010 19:36	1	X0816017.D	UltraCarb5uODS 4.6 (mm)
280-6075-3	SS3-	08/16/2010 19:57	1	X0816018.D	UltraCarb5uODS 4.6 (mm)
280-6075-4	SS4-	08/16/2010 20:18	1	X0816019.D	UltraCarb5uODS 4.6 (mm)
280-6075-8	SS1-DUP-	08/16/2010 20:39	1	X0816020.D	UltraCarb5uODS 4.6 (mm)
CCV 280-27102/21		08/16/2010 21:00	1	X0816021.D	UltraCarb5uODS 4.6 (mm)
CCV 280-27102/22		08/16/2010 21:21	1	X0816022.D	UltraCarb5uODS 4.6 (mm)

Organic Prep Worksheet

Batch Number: 280-26077

Method: 3535

Analyst: Frey, Alan C

Date Open: Aug 09 2010 2:35PM

Batch End: Aug 09 2010 5:00PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	GrossWeight	Tare Weight	Initial pH	pH after acid or base adjustment
280-5978-K-13			T	476 mL	5000 uL	n/a g	n/a g	n/a	n/a
280-6075-B-5	NE SUMP-	3535, 8330B	T	494 mL	5000 uL	n/a g	n/a g	n/a	n/a
280-6075-D-6	SW SUMP-	3535, 8330B	T	498 mL	5000 uL	n/a g	n/a g	n/a	n/a
280-6075-B-7	RINSATE	3535, 8330B	T	497 mL	5000 uL	n/a g	n/a g	n/a	n/a
MB~280-26077/5		3535, 8330B		500 mL	5000 uL	n/a g	n/a g	n/a	n/a
LCS~280-26077/6		3535, 8330B		500 mL	5000 uL	n/a g	n/a g	n/a	n/a
LCSD~280-26077/7		3535, 8330B		500 mL	5000 uL	n/a g	n/a g	n/a	n/a
LCS~280-26077/8		3535, 8330B		500 mL	5000 uL	n/a g	n/a g	n/a	n/a
LCSD~280-26077/9		3535, 8330B		500 mL	5000 uL	n/a g	n/a g	n/a	n/a

Organic Prep Worksheet

Batch Number: 280-26077

Method: 3535

Analyst: Frey, Alan C

Date Open: Aug 09 2010 2:35PM

Batch End: Aug 09 2010 5:00PM

Lab ID	Client ID	Method Chain	Basis	3,5-DNA LCS_00003	8330 LCS_00009	8330Surrogate_00018
280-5978-K-13			T			0.1 mL
280-6075-B-5	NE SUMP-	3535, 8330B	T			0.1 mL
280-6075-D-6	SW SUMP-	3535, 8330B	T			0.1 mL
280-6075-B-7	RINSATE	3535, 8330B	T			0.1 mL
MB~280-26077/5		3535, 8330B				0.1 mL
LCS~280-26077/6		3535, 8330B			0.1 mL	0.1 mL
LCSD~280-26077/7		3535, 8330B			0.1 mL	0.1 mL
LCS~280-26077/8		3535, 8330B		0.1 mL		0.1 mL
LCSD~280-26077/9		3535, 8330B		0.1 mL		0.1 mL

First Start time: 1500
 First End time: 1650
 SPE Cartridge Type: 8B-S014-HCH
 Solid Phase Extraction Disk Lot Number: S214-37/ 59297-1-46/ 2-39/ 1-37
 Balance ID: 24750399
 H2O Lot used: J28E00
 Pipette ID: E
 Witness: Reviewer: Hall K.
 Solvent Name: ACN
 Solvent Lot #: H49807
 Acid Name: 6M HCL
 Acid Lot: 2-L-1-2
 Reagent ID: CaCl2
 Reagent Lot Number: 2-G-1-8
 SOP Number: DV-OP-0017

Organic Prep Worksheet

Batch Number: 280-26077

Method: 3535

Analyst: Frey, Alan C

Date Open: Aug 09 2010 2:35PM

Batch End: Aug 09 2010 5:00PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
280-5978-K-13			T	
280-6075-B-5	NE SUMP-	3535, 8330B	T	volumetric
280-6075-D-6	SW SUMP-	3535, 8330B	T	volumetric
280-6075-B-7	RINSATE	3535, 8330B	T	volumetric
MB~280-26077/5		3535, 8330B		
LCS~280-26077/6		3535, 8330B		
LCSD~280-26077/7		3535, 8330B		
LCS~280-26077/8		3535, 8330B		3,5
LCSD~280-26077/9		3535, 8330B		3,5

Batch Comment:

N/A

Organic Prep Worksheet

Batch Number: 280-26688

Method: 8330B

Analyst: Hall, Koley J

Date Open: Aug 13 2010 8:55AM

Batch End: Aug 14 2010 12:20PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	3,5-DNA LCS_00004	8330 LCS_00009	8330Surrogate_00018
MB~280-26688/1		8330B, 8330B		10 g	40000 uL			1 mL
LCS~280-26688/2		8330B, 8330B		10 g	40000 uL		1 mL	1 mL
LCS~280-26688/3		8330B, 8330B		10 g	40000 uL	1 mL		1 mL
280-6075-A-1-A	SS1-	8330B, 8330B	T	10.02 g	40000 uL			1 mL
280-6075-A-1-A~MS	SS1-	8330B, 8330B	T	10.10 g	40000 uL		1 mL	1 mL
280-6075-A-1-A~MS	SS1-D	8330B, 8330B	T	10.16 g	40000 uL		1 mL	1 mL
280-6075-D-2-A	SS2-	8330B, 8330B	T	10.01 g	40000 uL			1 mL
280-6075-D-2-A~MS	SS2-	8330B, 8330B	T	10.00 g	40000 uL	1 mL		1 mL
280-6075-D-2-A~MS	SS2-D	8330B, 8330B	T	10.15 g	40000 uL	1 mL		1 mL
280-6075-A-3-A	SS3-	8330B, 8330B	T	10.04 g	40000 uL			1 mL
280-6075-B-4-A	SS4-	8330B, 8330B	T	10.09 g	40000 uL			1 mL
280-6075-D-8-A	SS1-DUP-	8330B, 8330B	T	10.06 g	40000 uL			1 mL

Acid used for pH adjustment:

NA

Base used for pH adjustment:

NA

Solvent Name:

A.ACN

Solvent Lot #:

1-7-20

Prep Solvent Volume Used:

20 mL

Person's name who witnessed reagent drop:

Reviewer:Decker.S

Person's name who did the concentration:

Hall.K

Balance ID:

24750836

Blank Sand Lot #:

YW0475

Pipette ID for Solvent:

Exp-1

Pipette ID:

C

Witness:

NA

Sonication Start Time:

ON:08/13/10@0915 OFF 08/13/10@2330 ON:08/14/10@0740 OFF 08/14/10@1125

Sonication Stop Time:

See above

Minumum Temperature:

1

Maximum Temperature:

26

Filter Type:

0.2um

Filter Lot #:

00108901

SOP Number:

DV-OP-0018

Organic Prep Worksheet

Batch Number: 280-26688

Method: 8330B

Analyst: Hall, Koley J

Date Open: Aug 13 2010 8:55AM

Batch End: Aug 14 2010 12:20PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~280-26688/1		8330B, 8330B		
LCS~280-26688/2		8330B, 8330B		
LCS~280-26688/3		8330B, 8330B		3,5 DNA
280-6075-A-1-A	SS1-	8330B, 8330B	T	
280-6075-A-1-A~MS	SS1-	8330B, 8330B	T	
280-6075-A-1-A~MS D	SS1-	8330B, 8330B	T	
280-6075-D-2-A	SS2-	8330B, 8330B	T	
280-6075-D-2-A~MS	SS2-	8330B, 8330B	T	3,5 DNA
280-6075-D-2-A~MS D	SS2-	8330B, 8330B	T	3,5 DNA
280-6075-A-3-A	SS3-	8330B, 8330B	T	
280-6075-B-4-A	SS4-	8330B, 8330B	T	
280-6075-D-8-A	SS1-DUP-	8330B, 8330B	T	

Batch Comment:

na

Method 6860

Perchlorate (IC/MS) by Method 6860

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: IC10H1789.d
Lab ID: LCS 280-26924/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perchlorate	0.493	0.555	113	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: IC10H2128.d
Lab ID: LCS 280-28013/18 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Perchlorate	0.0500	0.0529	106	80-120	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: IC10H1790.d
Lab ID: LCSD 280-26924/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perchlorate	0.499	0.535	107	4	15	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: IC10H1731.d
Lab ID: 280-6075-8 MS Client ID: SS1-DUP- MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perchlorate	0.498	0.25 U	0.646	130	70-130	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: IC10H1732.d
Lab ID: 280-6075-8 MSD Client ID: SS1-DUP- MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perchlorate	0.498	0.676	136	4	15	70-130	J

Column to be used to flag recovery and RPD values

FORM III
LCMS DETECTION LIMIT CHECK STANDARD RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: IC10H0410.d
Lab ID: DLCK 280-25449/10 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	DLCK CONCENTRATION (ug/L)	DLCK % REC	QC LIMITS REC	#
Perchlorate	0.0500	0.0493 J	99	70-130	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab File ID: IC10H2127.d Lab Sample ID: MB 280-28013/17
Matrix: Water Date Extracted: _____
Instrument ID: LC_LCMS1 Date Analyzed: 08/21/2010 23:33
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 280-28013/16	IC10H2126.d	08/21/2010 23:02
	LCS 280-28013/18	IC10H2128.d	08/22/2010 00:04
	CCB 280-28013/28	IC10H2138.d	08/22/2010 05:18
NE SUMP-	280-6075-5	IC10H2144.d	08/22/2010 08:27
SW SUMP-	280-6075-6	IC10H2145.d	08/22/2010 08:58
RINSATE	280-6075-7	IC10H2146.d	08/22/2010 09:29
	CCB 280-28013/40	IC10H2150.d	08/22/2010 11:40
	CCB 280-28013/50	IC10H2160.d	08/22/2010 19:25

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab File ID: IC10H1788.d Lab Sample ID: MB 280-26924/1-A
Matrix: Solid Date Extracted: 08/13/2010 19:35
Instrument ID: LC_LCMS1 Date Analyzed: 08/19/2010 09:33
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SS1-	280-6075-1	IC10H1726.d	08/17/2010 23:40
SS2-	280-6075-2	IC10H1727.d	08/18/2010 00:12
SS3-	280-6075-3	IC10H1728.d	08/18/2010 00:43
SS4-	280-6075-4	IC10H1729.d	08/18/2010 01:15
SS1-DUP-	280-6075-8	IC10H1730.d	08/18/2010 01:46
SS1-DUP- MS	280-6075-8 MS	IC10H1731.d	08/18/2010 02:17
SS1-DUP- MSD	280-6075-8 MSD	IC10H1732.d	08/18/2010 02:49
	LCS 280-26924/2-A	IC10H1789.d	08/19/2010 10:06
	LCSD 280-26924/3-A	IC10H1790.d	08/19/2010 11:10

FORM VIII

LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: LC_LCMS1 Calibration Start Date: 08/04/2010 10:56

GC Column: IonPac ID: 2(mm) Calibration End Date: 08/04/2010 13:33

Calibration ID: 2426

		C10418					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		7659794	15.87				
UPPER LIMIT		11489691	20.87				
LOWER LIMIT		3829897	10.87				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 280-25449/8		8822845	15.90				
ICV 280-25449/9		8178242	15.87				
DLCK 280-25449/10		8822981	15.87				
CCV 280-25449/17		7776529	15.87				
CCB 280-25449/19		8159262	15.85				
CCV 280-27344/12		4650251	15.90				
CCVL 280-27344/13		4966806	15.87				
CCB 280-27344/14		5407137	15.87				
280-6075-1	SS1-	4776095	15.89				
280-6075-2	SS2-	4735291	15.85				
280-6075-3	SS3-	4823490	15.82				
280-6075-4	SS4-	5120628	15.82				
280-6075-8	SS1-DUP-	5167095	15.90				
280-6075-8 MS	SS1-DUP- MS	5578027	15.90				
280-6075-8 MSD	SS1-DUP- MSD	5216874	15.82				
CCV 280-27344/24		5812628	15.85				
CCVL 280-27344/25		6045423	15.80				
CCB 280-27344/26		5786885	15.80				
CCV 280-27843/39		6207846	15.57				
CCVL 280-27843/40		5973147	15.57				
CCB 280-27843/41		5846118	15.59				
MB 280-26924/1-A		5103568	15.52				
LCS 280-26924/2-A		5289238	15.50				
LCSD 280-26924/3-A		5731575	15.57				
INF 280-27843/46		6825393	15.57				
CCV 280-27843/51		6656053	15.52				
CCVL 280-27843/52		6999045	15.49				
CCB 280-27843/53		6979899	15.62				
CCV 280-28013/14		7068829	15.37				
CCVL 280-28013/15		7337227	15.39				

C10418 = Perchlorate-180

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 5.0 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Instrument ID: LC_LCMS1 Calibration Start Date: 08/04/2010 10:56
 GC Column: IonPac ID: 2 (mm) Calibration End Date: 08/04/2010 13:33
 Calibration ID: 2426

		C10418					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		7659794	15.87				
UPPER LIMIT		11489691	20.87				
LOWER LIMIT		3829897	10.87				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 280-28013/16		7325847	15.39				
MB 280-28013/17		6585663	15.37				
LCS 280-28013/18		7081608	17.13				
INF 280-28013/19		6569253	15.42				
CCV 280-28013/26		6677427	15.52				
CCVL 280-28013/27		6453193	15.47				
CCB 280-28013/28		6558466	15.47				
280-6075-5	NE SUMP-	8142465	15.52				
280-6075-6	SW SUMP-	8261816	15.50				
280-6075-7	RINSATE	8642223	15.49				
CCV 280-28013/38		4331162	15.44				
CCVL 280-28013/39		4493148	15.37				
CCB 280-28013/40		4532919	15.39				
CCV 280-28013/48		6117423	15.37				
CCVL 280-28013/49		6088497	15.34				
CCB 280-28013/50		5949635	15.34				

C10418 = Perchlorate-180

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 5.0 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1- Lab Sample ID: 280-6075-1
Matrix: Solid Lab File ID: IC10H1726.d
Analysis Method: 6860 Date Collected: 08/02/2010 09:45
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.12(g) Date Analyzed: 08/17/2010 23:40
Con. Extract Vol.: 100(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: 13.5 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.29	U	0.57	0.24

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS2- Lab Sample ID: 280-6075-2
Matrix: Solid Lab File ID: IC10H1727.d
Analysis Method: 6860 Date Collected: 08/02/2010 10:10
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.01(g) Date Analyzed: 08/18/2010 00:12
Con. Extract Vol.: 100(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: 6.7 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.27	U	0.54	0.22

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS3- Lab Sample ID: 280-6075-3
Matrix: Solid Lab File ID: IC10H1728.d
Analysis Method: 6860 Date Collected: 08/02/2010 10:30
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.47(g) Date Analyzed: 08/18/2010 00:43
Con. Extract Vol.: 100(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: 12.1 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.27	U	0.54	0.23

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS4- Lab Sample ID: 280-6075-4
Matrix: Solid Lab File ID: IC10H1729.d
Analysis Method: 6860 Date Collected: 08/02/2010 10:45
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.52(g) Date Analyzed: 08/18/2010 01:15
Con. Extract Vol.: 100(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: 7.9 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.26	U	0.52	0.22

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: NE SUMP- Lab Sample ID: 280-6075-5
Matrix: Water Lab File ID: IC10H2144.d
Analysis Method: 6860 Date Collected: 08/02/2010 08:00
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/22/2010 08:27
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SW SUMP- Lab Sample ID: 280-6075-6
Matrix: Water Lab File ID: IC10H2145.d
Analysis Method: 6860 Date Collected: 08/02/2010 08:30
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5(mL) Date Analyzed: 08/22/2010 08:58
Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: RINSATE Lab Sample ID: 280-6075-7
Matrix: Water Lab File ID: IC10H2146.d
Analysis Method: 6860 Date Collected: 08/02/2010 11:45
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5(mL) Date Analyzed: 08/22/2010 09:29
Con. Extract Vol.: 1.0(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- Lab Sample ID: 280-6075-8
Matrix: Solid Lab File ID: IC10H1730.d
Analysis Method: 6860 Date Collected: 08/02/2010 11:30
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.61(g) Date Analyzed: 08/18/2010 01:46
Con. Extract Vol.: 100(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: 5.4 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.25	U J	0.50	0.21

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

00112500

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 25449

SDG No.: _____

Instrument ID: LC_LCMS1 GC Column: IonPac ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2010 10:56 Calibration End Date: 08/04/2010 13:33 Calibration ID: 2426

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0020 280-25449/2	IC10H0402.d
Level 2	STD0050 280-25449/3	IC10H0403.d
Level 3	STD0100 280-25449/4	IC10H0404.d
Level 4	ICISAV 280-25449/5	IC10H0405.d
Level 5	STD0500 280-25449/6	IC10H0406.d
Level 6	STD1000 280-25449/7	IC10H0407.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 3	LVL 4	LVL 5		B	M1	M2								
Perchlorate	1.3432 1.2242	1.2737	1.2530	1.2394	1.2356	Lin1	2.4891	1.2250							1.0000		0.9950

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

00112501

Lab Name: TestAmerica Denver Job No.: 280-6075-1 Analy Batch No.: 25449

SDG No.: _____

Instrument ID: LC_LCMS1 GC Column: IonPac ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/04/2010 10:56 Calibration End Date: 08/04/2010 13:33 Calibration ID: 2426

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0020 280-25449/2	IC10H0402.d
Level 2	STD0050 280-25449/3	IC10H0403.d
Level 3	STD0100 280-25449/4	IC10H0404.d
Level 4	ICISAV 280-25449/5	IC10H0405.d
Level 5	STD0500 280-25449/6	IC10H0406.d
Level 6	STD1000 280-25449/7	IC10H0407.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perchlorate	C104 18	Lin1	1038628 42256280	2488724	4830915	9578644	22587203	20.0 1000	50.0	100	200	500

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: ICV 280-25449/9 Calibration Date: 08/04/2010 14:36
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H0409.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.250		0.202	0.200	1.0	10.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-25449/17 Calibration Date: 08/04/2010 18:57
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H0417.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.239		0.200	0.200	0.2	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27344/12 Calibration Date: 08/17/2010 21:35
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1722.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.268		0.205	0.200	2.5	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-27344/13 Calibration Date: 08/17/2010 22:06
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1723.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.222		0.0179	0.0200	-10.4	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27344/24 Calibration Date: 08/18/2010 03:51
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1734.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.259		0.204	0.200	1.8	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-27344/25 Calibration Date: 08/18/2010 04:23
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1735.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.314		0.0194	0.0200	-2.9	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27843/39 Calibration Date: 08/19/2010 07:20
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1784.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.242		0.201	0.200	0.4	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-27843/40 Calibration Date: 08/19/2010 07:52
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1785.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.354		0.0201	0.0200	0.4	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: INF 280-27843/46 Calibration Date: 08/19/2010 11:42
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1791.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.486		0.0586	0.0500	17.3	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-27843/51 Calibration Date: 08/19/2010 14:19
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1796.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.314		0.213	0.200	6.3	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-27843/52 Calibration Date: 08/19/2010 14:50
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H1797.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.287		0.0190	0.0200	-5.1	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-28013/14 Calibration Date: 08/21/2010 21:59
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2124.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.312		0.212	0.200	6.1	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-28013/15 Calibration Date: 08/21/2010 22:30
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2125.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.421		0.0212	0.0200	5.8	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: INF 280-28013/19 Calibration Date: 08/22/2010 00:36
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2129.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.496		0.0590	0.0500	18.1	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-28013/26 Calibration Date: 08/22/2010 04:15
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2136.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.301		0.210	0.200	5.2	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-28013/27 Calibration Date: 08/22/2010 04:47
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2137.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.360		0.0202	0.0200	0.9	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-28013/38 Calibration Date: 08/22/2010 10:32
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2148.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.261		0.204	0.200	1.9	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-28013/39 Calibration Date: 08/22/2010 11:08
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2149.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.335		0.0198	0.0200	-1.2	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCV 280-28013/48 Calibration Date: 08/22/2010 18:22
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2158.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.256		0.203	0.200	1.5	15.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Lab Sample ID: CCVL 280-28013/49 Calibration Date: 08/22/2010 18:53
Instrument ID: LC_LCMS1 Calib Start Date: 08/04/2010 10:56
GC Column: IonPac ID: 2.00 (mm) Calib End Date: 08/04/2010 13:33
Lab File ID: IC10H2159.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perchlorate	Lin1		1.235		0.0181	0.0200	-9.4	30.0

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-26924/1-A
Matrix: Solid Lab File ID: IC10H1788.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.87(g) Date Analyzed: 08/19/2010 09:33
Con. Extract Vol.: 100(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27843 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.23	U	0.46	0.19

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-28013/17
Matrix: Water Lab File ID: IC10H2127.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/21/2010 23:33
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-25449/8
Matrix: Solid Lab File ID: IC10H0408.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2010 14:05
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 25449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-25449/19
Matrix: Solid Lab File ID: IC10H0419.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2010 20:00
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 25449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-27344/14
Matrix: Solid Lab File ID: IC10H1724.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/17/2010 22:38
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-27344/26
Matrix: Solid Lab File ID: IC10H1736.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/18/2010 04:54
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-27843/41
Matrix: Solid Lab File ID: IC10H1786.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/19/2010 08:23
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-27843/53
Matrix: Solid Lab File ID: IC10H1798.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/19/2010 15:22
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27843 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-28013/16
Matrix: Solid Lab File ID: IC10H2126.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/21/2010 23:02
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-28013/28
Matrix: Water Lab File ID: IC10H2138.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/22/2010 05:18
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-28013/40
Matrix: Solid Lab File ID: IC10H2150.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/22/2010 11:40
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: CCB 280-28013/50
Matrix: Water Lab File ID: IC10H2160.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/22/2010 19:25
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.020	U	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-26924/2-A
Matrix: Solid Lab File ID: IC10H1789.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.15(g) Date Analyzed: 08/19/2010 10:06
Con. Extract Vol.: 100 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27843 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.555		0.49	0.21

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-28013/18
Matrix: Water Lab File ID: IC10H2128.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/22/2010 00:04
Con. Extract Vol.: 1.0 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 28013 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.0529		0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-26924/3-A
Matrix: Solid Lab File ID: IC10H1790.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.03(g) Date Analyzed: 08/19/2010 11:10
Con. Extract Vol.: 100 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 27843 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.535		0.50	0.21

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: DLCK 280-25449/10
Matrix: Solid Lab File ID: IC10H0410.d
Analysis Method: 6860 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 5(mL) Date Analyzed: 08/04/2010 15:07
Con. Extract Vol.: 5(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 25449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	MDL
14797-73-0	Perchlorate	0.0493	J	0.050	0.0088

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- MS Lab Sample ID: 280-6075-8 MS
Matrix: Solid Lab File ID: IC10H1731.d
Analysis Method: 6860 Date Collected: 08/02/2010 11:30
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.61(g) Date Analyzed: 08/18/2010 02:17
Con. Extract Vol.: 100 (mL) Dilution Factor: 1
Injection Volume: 250 (uL) GC Column: IonPac ID: 2 (mm)
% Moisture: 5.4 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.646		0.50	0.21

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Client Sample ID: SS1-DUP- MSD Lab Sample ID: 280-6075-8 MSD
Matrix: Solid Lab File ID: IC10H1732.d
Analysis Method: 6860 Date Collected: 08/02/2010 11:30
Extraction Method: 6860 Date Extracted: 08/13/2010 19:35
Sample wt/vol: 10.61(g) Date Analyzed: 08/18/2010 02:49
Con. Extract Vol.: 100(mL) Dilution Factor: 1
Injection Volume: 250(uL) GC Column: IonPac ID: 2(mm)
% Moisture: 5.4 GPC Cleanup: (Y/N) N
Analysis Batch No.: 27344 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
14797-73-0	Perchlorate	0.676	J	0.50	0.21

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: LC_LCMS1 Start Date: 08/04/2010 10:25

Analysis Batch Number: 25449 End Date: 08/05/2010 09:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICB 280-25449/1		08/04/2010 10:25	1		IonPac 2 (mm)
STD0020 280-25449/2 IC		08/04/2010 10:56	1	IC10H0402.d	IonPac 2 (mm)
STD0050 280-25449/3 IC		08/04/2010 11:28	1	IC10H0403.d	IonPac 2 (mm)
STD0100 280-25449/4 IC		08/04/2010 11:59	1	IC10H0404.d	IonPac 2 (mm)
ICISAV 280-25449/5		08/04/2010 12:30	1	IC10H0405.d	IonPac 2 (mm)
STD0500 280-25449/6 IC		08/04/2010 13:02	1	IC10H0406.d	IonPac 2 (mm)
STD1000 280-25449/7 IC		08/04/2010 13:33	1	IC10H0407.d	IonPac 2 (mm)
CCB 280-25449/8		08/04/2010 14:05	1	IC10H0408.d	IonPac 2 (mm)
ICV 280-25449/9		08/04/2010 14:36	1	IC10H0409.d	IonPac 2 (mm)
DLCK 280-25449/10		08/04/2010 15:07	1	IC10H0410.d	IonPac 2 (mm)
ZZZZZ		08/04/2010 15:41	1000		IonPac 2 (mm)
ZZZZZ		08/04/2010 16:28	5000		IonPac 2 (mm)
ZZZZZ		08/04/2010 16:52	10000		IonPac 2 (mm)
ZZZZZ		08/04/2010 17:23	1		IonPac 2 (mm)
ZZZZZ		08/04/2010 17:55	1		IonPac 2 (mm)
INF 280-25449/16		08/04/2010 18:26	1		IonPac 2 (mm)
CCV 280-25449/17		08/04/2010 18:57	1	IC10H0417.d	IonPac 2 (mm)
CCVL 280-25449/18		08/04/2010 19:29	1		IonPac 2 (mm)
CCB 280-25449/19		08/04/2010 20:00	1	IC10H0419.d	IonPac 2 (mm)
ZZZZZ		08/04/2010 20:32	1		IonPac 2 (mm)
ZZZZZ		08/04/2010 21:03	1		IonPac 2 (mm)
ZZZZZ		08/04/2010 21:34	1		IonPac 2 (mm)
ZZZZZ		08/04/2010 22:06	1		IonPac 2 (mm)
ZZZZZ		08/04/2010 22:37	1		IonPac 2 (mm)
ZZZZZ		08/04/2010 23:09	1		IonPac 2 (mm)
ZZZZZ		08/04/2010 23:40	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 00:11	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 00:43	1		IonPac 2 (mm)
CCV 280-25449/29		08/05/2010 01:14	1		IonPac 2 (mm)
CCVL 280-25449/30		08/05/2010 01:46	1		IonPac 2 (mm)
CCB 280-25449/31		08/05/2010 02:17	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 02:48	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 03:20	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 03:51	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 04:23	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 04:54	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 05:25	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 05:57	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 06:28	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 07:00	1		IonPac 2 (mm)
ZZZZZ		08/05/2010 07:31	1		IonPac 2 (mm)
CCV 280-25449/42		08/05/2010 08:02	1		IonPac 2 (mm)
CCVL 280-25449/43		08/05/2010 08:34	1		IonPac 2 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: LC_LCMS1 Start Date: 08/04/2010 10:25Analysis Batch Number: 25449 End Date: 08/05/2010 09:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 280-25449/44		08/05/2010 09:05	1		IonPac 2 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: LC_LCMS1 Start Date: 08/17/2010 15:49

Analysis Batch Number: 27344 End Date: 08/18/2010 11:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 280-27344/1		08/17/2010 15:49	1		IonPac 2 (mm)
CCV 280-27344/2		08/17/2010 16:21	1		IonPac 2 (mm)
CCVL 280-27344/3		08/17/2010 16:52	1		IonPac 2 (mm)
ZZZZZ		08/17/2010 17:24	1		IonPac 2 (mm)
ZZZZZ		08/17/2010 17:55	1		IonPac 2 (mm)
ZZZZZ		08/17/2010 18:26	1		IonPac 2 (mm)
INF 280-27344/7		08/17/2010 18:58	1		IonPac 2 (mm)
ZZZZZ		08/17/2010 19:29	1		IonPac 2 (mm)
ZZZZZ		08/17/2010 20:01	1		IonPac 2 (mm)
ZZZZZ		08/17/2010 20:32	1		IonPac 2 (mm)
ZZZZZ		08/17/2010 21:03	1		IonPac 2 (mm)
CCV 280-27344/12		08/17/2010 21:35	1	IC10H1722.d	IonPac 2 (mm)
CCVL 280-27344/13		08/17/2010 22:06	1	IC10H1723.d	IonPac 2 (mm)
CCB 280-27344/14		08/17/2010 22:38	1	IC10H1724.d	IonPac 2 (mm)
ZZZZZ		08/17/2010 23:09	1		IonPac 2 (mm)
280-6075-1	SS1-	08/17/2010 23:40	1	IC10H1726.d	IonPac 2 (mm)
280-6075-2	SS2-	08/18/2010 00:12	1	IC10H1727.d	IonPac 2 (mm)
280-6075-3	SS3-	08/18/2010 00:43	1	IC10H1728.d	IonPac 2 (mm)
280-6075-4	SS4-	08/18/2010 01:15	1	IC10H1729.d	IonPac 2 (mm)
280-6075-8	SS1-DUP-	08/18/2010 01:46	1	IC10H1730.d	IonPac 2 (mm)
280-6075-8 MS	SS1-DUP- MS	08/18/2010 02:17	1	IC10H1731.d	IonPac 2 (mm)
280-6075-8 MSD	SS1-DUP- MSD	08/18/2010 02:49	1	IC10H1732.d	IonPac 2 (mm)
ZZZZZ		08/18/2010 03:20	1		IonPac 2 (mm)
CCV 280-27344/24		08/18/2010 03:51	1	IC10H1734.d	IonPac 2 (mm)
CCVL 280-27344/25		08/18/2010 04:23	1	IC10H1735.d	IonPac 2 (mm)
CCB 280-27344/26		08/18/2010 04:54	1	IC10H1736.d	IonPac 2 (mm)
ZZZZZ		08/18/2010 05:26	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 05:57	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 06:28	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 07:00	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 07:31	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 08:03	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 08:36	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 09:09	1		IonPac 2 (mm)
ZZZZZ		08/18/2010 09:37	1		IonPac 2 (mm)
CCV 280-27344/35		08/18/2010 10:08	1		IonPac 2 (mm)
CCVL 280-27344/36		08/18/2010 10:40	1		IonPac 2 (mm)
CCB 280-27344/37		08/18/2010 11:11	1		IonPac 2 (mm)

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: LC_LCMS1 Start Date: 08/19/2010 07:20Analysis Batch Number: 27843 End Date: 08/19/2010 15:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-27843/39		08/19/2010 07:20	1	IC10H1784.d	IonPac 2 (mm)
CCVL 280-27843/40		08/19/2010 07:52	1	IC10H1785.d	IonPac 2 (mm)
CCB 280-27843/41		08/19/2010 08:23	1	IC10H1786.d	IonPac 2 (mm)
ZZZZZ		08/19/2010 08:56	1		IonPac 2 (mm)
MB 280-26924/1-A		08/19/2010 09:33	1	IC10H1788.d	IonPac 2 (mm)
LCS 280-26924/2-A		08/19/2010 10:06	1	IC10H1789.d	IonPac 2 (mm)
LCSD 280-26924/3-A		08/19/2010 11:10	1	IC10H1790.d	IonPac 2 (mm)
INF 280-27843/46		08/19/2010 11:42	1	IC10H1791.d	IonPac 2 (mm)
ZZZZZ		08/19/2010 12:13	1		IonPac 2 (mm)
ZZZZZ		08/19/2010 12:45	1		IonPac 2 (mm)
ZZZZZ		08/19/2010 13:16	1		IonPac 2 (mm)
ZZZZZ		08/19/2010 13:47	1		IonPac 2 (mm)
CCV 280-27843/51		08/19/2010 14:19	1	IC10H1796.d	IonPac 2 (mm)
CCVL 280-27843/52		08/19/2010 14:50	1	IC10H1797.d	IonPac 2 (mm)
CCB 280-27843/53		08/19/2010 15:22	1	IC10H1798.d	IonPac 2 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: LC_LCMS1 Start Date: 08/21/2010 21:59

Analysis Batch Number: 28013 End Date: 08/22/2010 19:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-28013/14		08/21/2010 21:59	1	IC10H2124.d	IonPac 2 (mm)
CCVL 280-28013/15		08/21/2010 22:30	1	IC10H2125.d	IonPac 2 (mm)
CCB 280-28013/16		08/21/2010 23:02	1	IC10H2126.d	IonPac 2 (mm)
MB 280-28013/17		08/21/2010 23:33	1	IC10H2127.d	IonPac 2 (mm)
LCS 280-28013/18		08/22/2010 00:04	1	IC10H2128.d	IonPac 2 (mm)
INF 280-28013/19		08/22/2010 00:36	1	IC10H2129.d	IonPac 2 (mm)
ZZZZZ		08/22/2010 01:07	1		IonPac 2 (mm)
ZZZZZ		08/22/2010 01:39	1		IonPac 2 (mm)
ZZZZZ		08/22/2010 02:10	1		IonPac 2 (mm)
ZZZZZ		08/22/2010 02:41	1		IonPac 2 (mm)
ZZZZZ		08/22/2010 03:13	1		IonPac 2 (mm)
ZZZZZ		08/22/2010 03:44	1		IonPac 2 (mm)
CCV 280-28013/26		08/22/2010 04:15	1	IC10H2136.d	IonPac 2 (mm)
CCVL 280-28013/27		08/22/2010 04:47	1	IC10H2137.d	IonPac 2 (mm)
CCB 280-28013/28		08/22/2010 05:18	1	IC10H2138.d	IonPac 2 (mm)
ZZZZZ		08/22/2010 05:50	100		IonPac 2 (mm)
ZZZZZ		08/22/2010 06:21	1000		IonPac 2 (mm)
ZZZZZ		08/22/2010 06:52	10000		IonPac 2 (mm)
ZZZZZ		08/22/2010 07:24	10000		IonPac 2 (mm)
ZZZZZ		08/22/2010 07:55	10		IonPac 2 (mm)
280-6075-5	NE SUMP-	08/22/2010 08:27	1	IC10H2144.d	IonPac 2 (mm)
280-6075-6	SW SUMP-	08/22/2010 08:58	1	IC10H2145.d	IonPac 2 (mm)
280-6075-7	RINSATE	08/22/2010 09:29	1	IC10H2146.d	IonPac 2 (mm)
ZZZZZ		08/22/2010 10:01	1		IonPac 2 (mm)
CCV 280-28013/38		08/22/2010 10:32	1	IC10H2148.d	IonPac 2 (mm)
CCVL 280-28013/39		08/22/2010 11:08	1	IC10H2149.d	IonPac 2 (mm)
CCB 280-28013/40		08/22/2010 11:40	1	IC10H2150.d	IonPac 2 (mm)
ZZZZZ		08/22/2010 14:42	5		IonPac 2 (mm)
ZZZZZ		08/22/2010 15:13	5		IonPac 2 (mm)
ZZZZZ		08/22/2010 15:45	5		IonPac 2 (mm)
ZZZZZ		08/22/2010 16:16	10		IonPac 2 (mm)
ZZZZZ		08/22/2010 16:48	20		IonPac 2 (mm)
ZZZZZ		08/22/2010 17:19	1000		IonPac 2 (mm)
ZZZZZ		08/22/2010 17:50	1		IonPac 2 (mm)
CCV 280-28013/48		08/22/2010 18:22	1	IC10H2158.d	IonPac 2 (mm)
CCVL 280-28013/49		08/22/2010 18:53	1	IC10H2159.d	IonPac 2 (mm)
CCB 280-28013/50		08/22/2010 19:25	1	IC10H2160.d	IonPac 2 (mm)

LCMS Worksheet

Batch Number: 280-26924

Method: 6860

Analyst: Vault, Kerry

Date Open: Aug 13 2010 7:35PM

Batch End: Aug 13 2010 9:05PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	6860-IS-Spike_00018	6860SoilLCS_00001
MB~280-26924/1		6860, 6860		10.87 g	100 mL	1 mL	
LCS~280-26924/2		6860, 6860		10.15 g	100 mL	1 mL	1 mL
LCSD~280-26924/3		6860, 6860		10.03 g	100 mL	1 mL	1 mL
280-5768-A-41			T	10.76 g	100 mL	1 mL	
280-5768-A-42			T	10.12 g	100 mL	1 mL	
280-5768-A-43			T	10.81 g	100 mL	1 mL	
280-5768-A-44			T	10.73 g	100 mL	1 mL	
280-5768-A-47			T	10.12 g	100 mL	1 mL	
280-6075-D-1	SS1-	6860, 6860	T	10.12 g	100 mL	1 mL	
280-6075-B-2	SS2-	6860, 6860	T	10.01 g	100 mL	1 mL	
280-6075-B-3	SS3-	6860, 6860	T	10.47 g	100 mL	1 mL	
280-6075-A-4	SS4-	6860, 6860	T	10.52 g	100 mL	1 mL	
280-6075-A-8	SS1-DUP-	6860, 6860	T	10.61 g	100 mL	1 mL	
280-6075-A-8~MS	SS1-DUP-	6860, 6860	T	10.61 g	100 mL	1 mL	1 mL
280-6075-A-8~MSD	SS1-DUP-	6860, 6860	T	10.61 g	100 mL	1 mL	1 mL
280-5769-A-1			T	10.80 g	100 mL	1 mL	
280-5769-A-4			T	10.62 g	100 mL	1 mL	
280-5769-A-5			T	10.50 g	100 mL	1 mL	
280-5769-A-7			T	10.31 g	100 mL	1 mL	
280-5769-A-8			T	10.99 g	100 mL	1 mL	
280-5769-A-9			T	10.73 g	100 mL	1 mL	
280-5769-A-12			T	10.89 g	100 mL	1 mL	
280-5769-A-14			T	10.66 g	100 mL	1 mL	
280-5769-A-15			T	10.94 g	100 mL	1 mL	

Person's name who did the prep:

VAULT.K

Blank Soil Lot Number:

YW0475

Person's name who witnessed reagent drop:

Reviewer:SCOLES.B

Filter Lot #:

Z339

Pipette ID:

H

Balance ID:

24750836

Reagent Water Lot #:

ELGA

SOP Number:

DV-LC-0024

LCMS Worksheet

Batch Number: 280-26924

Method: 6860

Analyst: Vault, Kerry

Date Open: Aug 13 2010 7:35PM

Batch End: Aug 13 2010 9:05PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~280-26924/1		6860, 6860		
LCS~280-26924/2		6860, 6860		
LCSD~280-26924/3		6860, 6860		
280-5768-A-41			T	
280-5768-A-42			T	
280-5768-A-43			T	
280-5768-A-44			T	
280-5768-A-47			T	
280-6075-D-1	SS1-	6860, 6860	T	
280-6075-B-2	SS2-	6860, 6860	T	
280-6075-B-3	SS3-	6860, 6860	T	
280-6075-A-4	SS4-	6860, 6860	T	
280-6075-A-8	SS1-DUP-	6860, 6860	T	
280-6075-A-8~MS	SS1-DUP-	6860, 6860	T	
280-6075-A-8~MSD	SS1-DUP-	6860, 6860	T	
280-5769-A-1			T	
280-5769-A-4			T	
280-5769-A-5			T	
280-5769-A-7			T	
280-5769-A-8			T	
280-5769-A-9			T	
280-5769-A-12			T	
280-5769-A-14			T	
280-5769-A-15			T	

Batch Comment:

Aliquot:Erin Guest

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG No.: _____
Project: Longhorn Army Ammunition Plant, Karnack,

Client Sample ID	Lab Sample ID
SS1-	280-6075-1
SS2-	280-6075-2
SS3-	280-6075-3
SS4-	280-6075-4
NE SUMP-	280-6075-5
SW SUMP-	280-6075-6
RINSATE	280-6075-7
SS1-DUP-	280-6075-8

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112549

Client Sample ID: SS1-
Lab Name: TestAmerica Denver
SDG ID.:
Matrix: Solid
Reporting Basis: DRY
% Solids: 86.5

Lab Sample ID: 280-6075-1
Job No.: 280-6075-1
Date Sampled: 08/02/2010 09:45
Date Received: 08/06/2010 10:00

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6500	610	52	ug/Kg			1	6020A
7440-39-3	Barium	47000	260	72	ug/Kg			1	6020A
7440-43-9	Cadmium	2600	100	9.6	ug/Kg		Q	1	6020A
7440-47-3	Chromium	11000	610	78	ug/Kg		Q	1	6020A
7439-92-1	Lead	18000	410	19	ug/Kg			1	6020A
7782-49-2	Selenium	560	510	140	ug/Kg			1	6020A
7440-22-4	Silver	100	100	21	ug/Kg		Q	1	6020A
7439-97-6	Mercury	64	18	6.0	ug/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112550

Client Sample ID: SS2-
Lab Name: TestAmerica Denver
SDG ID.:
Matrix: Solid
Reporting Basis: DRY
% Solids: 93.3

Lab Sample ID: 280-6075-2
Job No.: 280-6075-1
Date Sampled: 08/02/2010 10:10
Date Received: 08/06/2010 10:00

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5500	560	48	ug/Kg			1	6020A
7440-39-3	Barium	43000	230	66	ug/Kg			1	6020A
7440-43-9	Cadmium	6000	94	8.8	ug/Kg		Q	1	6020A
7440-47-3	Chromium	16000	560	71	ug/Kg		Q	1	6020A
7439-92-1	Lead	34000	380	17	ug/Kg			1	6020A
7782-49-2	Selenium	530	470	130	ug/Kg			1	6020A
7440-22-4	Silver	580	94	19	ug/Kg		Q	1	6020A
7439-97-6	Mercury	47	17	5.6	ug/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112551

Client Sample ID: SS3-
Lab Name: TestAmerica Denver
SDG ID.:
Matrix: Solid
Reporting Basis: DRY
% Solids: 87.9

Lab Sample ID: 280-6075-3
Job No.: 280-6075-1
Date Sampled: 08/02/2010 10:30
Date Received: 08/06/2010 10:00

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5500	680	57	ug/Kg			1	6020A
7440-39-3	Barium	51000	280	79	ug/Kg			1	6020A
7440-43-9	Cadmium	990	110	11	ug/Kg		Q	1	6020A
7440-47-3	Chromium	9700	680	86	ug/Kg		Q	1	6020A
7439-92-1	Lead	20000	450	21	ug/Kg			1	6020A
7782-49-2	Selenium	680	560	150	ug/Kg			1	6020A
7440-22-4	Silver	280	110	23	ug/Kg		Q	1	6020A
7439-97-6	Mercury	620	19	6.1	ug/Kg		J	1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112552

Client Sample ID: SS4-
Lab Name: TestAmerica Denver
SDG ID.:
Matrix: Solid
Reporting Basis: DRY
% Solids: 92.1

Lab Sample ID: 280-6075-4
Job No.: 280-6075-1
Date Sampled: 08/02/2010 10:45
Date Received: 08/06/2010 10:00

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7900	630	53	ug/Kg			1	6020A
7440-39-3	Barium	62000	260	74	ug/Kg			1	6020A
7440-43-9	Cadmium	4400	100	9.8	ug/Kg		Q	1	6020A
7440-47-3	Chromium	11000	630	79	ug/Kg		Q	1	6020A
7439-92-1	Lead	21000	420	19	ug/Kg			1	6020A
7782-49-2	Selenium	750	520	140	ug/Kg			1	6020A
7440-22-4	Silver	420	100	21	ug/Kg		Q	1	6020A
7439-97-6	Mercury	58	18	6.0	ug/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112553

Client Sample ID: NE SUMP-

Lab Sample ID: 280-6075-5

Lab Name: TestAmerica Denver

Job No.: 280-6075-1

SDG ID.:

Matrix: Water

Date Sampled: 08/02/2010 08:00

Reporting Basis: WET

Date Received: 08/06/2010 10:00

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.36	5.0	0.21	ug/L	J		1	6020A
7440-39-3	Barium	27	3.0	0.29	ug/L			1	6020A
7440-43-9	Cadmium	0.56	1.0	0.040	ug/L	J	Q	1	6020A
7440-47-3	Chromium	1.5	10	0.50	ug/L	U	Q	1	6020A
7439-92-1	Lead	0.50	3.0	0.18	ug/L	J		1	6020A
7782-49-2	Selenium	2.0	5.0	0.70	ug/L	U		1	6020A
7440-22-4	Silver	0.029	5.0	0.015	ug/L	J		1	6020A
7439-97-6	Mercury	0.080	0.20	0.027	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112554

Client Sample ID: SW SUMP-

Lab Sample ID: 280-6075-6

Lab Name: TestAmerica Denver

Job No.: 280-6075-1

SDG ID.:

Matrix: Water

Date Sampled: 08/02/2010 08:30

Reporting Basis: WET

Date Received: 08/06/2010 10:00

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.57	5.0	0.21	ug/L	J		1	6020A
7440-39-3	Barium	24	3.0	0.29	ug/L			1	6020A
7440-43-9	Cadmium	0.12	1.0	0.040	ug/L	U	Q	1	6020A
7440-47-3	Chromium	1.5	10	0.50	ug/L	U	Q	1	6020A
7439-92-1	Lead	0.50	3.0	0.18	ug/L	U		1	6020A
7782-49-2	Selenium	2.0	5.0	0.70	ug/L	U		1	6020A
7440-22-4	Silver	0.045	5.0	0.015	ug/L	U		1	6020A
7439-97-6	Mercury	0.035	0.20	0.027	ug/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112555

Client Sample ID: RINSATE

Lab Sample ID: 280-6075-7

Lab Name: TestAmerica Denver

Job No.: 280-6075-1

SDG ID.:

Matrix: Water

Date Sampled: 08/02/2010 11:45

Reporting Basis: WET

Date Received: 08/06/2010 10:00

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.60	5.0	0.21	ug/L	U		1	6020A
7440-39-3	Barium	1.5	3.0	0.29	ug/L	J		1	6020A
7440-43-9	Cadmium	0.16	1.0	0.040	ug/L	J	Q	1	6020A
7440-47-3	Chromium	1.5	10	0.50	ug/L	U	Q	1	6020A
7439-92-1	Lead	0.30	3.0	0.18	ug/L	J		1	6020A
7782-49-2	Selenium	2.0	5.0	0.70	ug/L	U		1	6020A
7440-22-4	Silver	0.018	5.0	0.015	ug/L	J		1	6020A
7439-97-6	Mercury	0.080	0.20	0.027	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

00112556

Client Sample ID: SS1-DUP-

Lab Sample ID: 280-6075-8

Lab Name: TestAmerica Denver

Job No.: 280-6075-1

SDG ID.:

Matrix: Solid

Date Sampled: 08/02/2010 11:30

Reporting Basis: DRY

Date Received: 08/06/2010 10:00

% Solids: 94.6

CAS No.	Analyte	Conc.	LOQ	DL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6100	620	52	ug/Kg			1	6020A
7440-39-3	Barium	48000	260	73	ug/Kg			1	6020A
7440-43-9	Cadmium	2800	100	9.7	ug/Kg		Q	1	6020A
7440-47-3	Chromium	15000	620	79	ug/Kg		Q	1	6020A
7439-92-1	Lead	26000	410	19	ug/Kg			1	6020A
7782-49-2	Selenium	300	520	140	ug/Kg	J		1	6020A
7440-22-4	Silver	83	100	21	ug/Kg	J	Q	1	6020A
7439-97-6	Mercury	62	17	5.7	ug/Kg			1	7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112557

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS ICV_00142 Concentration Units: ug/L

CCV Source: MS CCV_00143

Analyte	ICV 280-27507/4 08/17/2010 23:57				CCV 280-27507/15 08/18/2010 00:27				CCV 280-27507/156 08/18/2010 06:58			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	40.9		40.0	102	49.4		50.0	99	49.6		50.0	99
Barium	40.6		40.0	101	50.0		50.0	100	48.4		50.0	97
Cadmium	40.4		40.0	101	50.5		50.0	101	49.9		50.0	100
Chromium	40.6		40.0	101	49.6		50.0	99	49.9		50.0	100
Lead	41.0		40.0	102	50.4		50.0	101	51.3		50.0	103
Selenium	40.2		40.0	100	50.6		50.0	101	52.6		50.0	105
Silver	40.4		40.0	101	49.9		50.0	100	49.3		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112558

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS ICV_00142 Concentration Units: ug/L

CCV Source: MS CCV_00143

Analyte	CCV 280-27507/167 08/18/2010 07:28				CCV 280-27507/177 08/18/2010 07:56				CCV 280-27507/186 08/18/2010 08:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	49.6		50.0	99	48.9		50.0	98	49.0		50.0	98
Barium	48.6		50.0	97	48.7		50.0	97	49.8		50.0	100
Cadmium	50.4		50.0	101	49.8		50.0	100	50.0		50.0	100
Chromium	50.9		50.0	102	49.5		50.0	99	49.8		50.0	100
Lead	50.8		50.0	102	50.4		50.0	101	50.3		50.0	101
Selenium	48.2		50.0	96	48.1		50.0	96	51.3		50.0	103
Silver	49.5		50.0	99	49.2		50.0	98	50.5		50.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112559

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS ICV_00142 Concentration Units: ug/L

CCV Source: MS CCV_00143

Analyte	ICV 280-27511/4 08/17/2010 23:57				CCV 280-27511/15 08/18/2010 00:27				CCV 280-27511/75 08/18/2010 03:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	40.9		40.0	102	49.4		50.0	99	50.5		50.0	101
Barium	40.6		40.0	101	50.0		50.0	100	51.0		50.0	102
Cadmium	40.4		40.0	101	50.5		50.0	101	49.7		50.0	99
Chromium	40.6		40.0	101	49.6		50.0	99	48.8		50.0	98
Lead	41.0		40.0	102	50.4		50.0	101	50.8		50.0	102
Selenium	40.2		40.0	100	50.6		50.0	101	50.5		50.0	101
Silver	40.4		40.0	101	49.9		50.0	100	49.7		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112560

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS ICV_00142 Concentration Units: ug/L

CCV Source: MS CCV_00143

Analyte	CCV 280-27511/86 08/18/2010 03:44				CCV 280-27511/96 08/18/2010 04:12							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	50.3		50.0	101	50.1		50.0	100				
Barium	50.1		50.0	100	50.7		50.0	101				
Cadmium	49.7		50.0	99	50.2		50.0	100				
Chromium	49.5		50.0	99	49.5		50.0	99				
Lead	50.5		50.0	101	51.0		50.0	102				
Selenium	53.6		50.0	107	51.2		50.0	102				
Silver	49.2		50.0	98	49.6		50.0	99				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112561

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS LCCV dly_00142 Concentration Units: ug/L

CCV Source: MS LCCV dly_00142

Analyte	ICVL 280-27507/5 08/18/2010 00:00				CCVL 280-27507/17 08/18/2010 00:32				CCVL 280-27507/158 08/18/2010 07:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	5.22		5.00	104	5.23		5.00	105	5.22		5.00	104
Barium	1.08		1.00	108	1.05		1.00	105	0.992	J	1.00	99
Cadmium	1.04		1.00	104	1.00		1.00	100	1.04		1.00	104
Chromium	2.03		2.00	101	2.06		2.00	103	2.10		2.00	105
Lead	1.08		1.00	108	1.06		1.00	106	1.10		1.00	110
Selenium	4.70	J	5.00	94	4.93	J	5.00	99	4.28	J	5.00	86
Silver	5.16		5.00	103	5.10		5.00	102	5.08		5.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112562

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS LCCV dly_00142 Concentration Units: ug/L

CCV Source: MS LCCV dly_00142

Analyte	CCVL 280-27507/169 08/18/2010 07:34				CCVL 280-27507/179 08/18/2010 08:02				CCVL 280-27507/188 08/18/2010 08:27			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	5.15		5.00	103	5.07		5.00	101	5.16		5.00	103
Barium	1.06		1.00	106	1.03		1.00	103	1.08		1.00	108
Cadmium	1.04		1.00	104	1.02		1.00	102	0.998	J	1.00	100
Chromium	2.16		2.00	108	2.11		2.00	105	2.12		2.00	106
Lead	1.08		1.00	108	1.12		1.00	112	1.09		1.00	109
Selenium	4.75	J	5.00	95	5.06		5.00	101	6.31		5.00	126
Silver	5.18		5.00	104	5.10		5.00	102	5.30		5.00	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112563

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS LCCV dly_00142 Concentration Units: ug/L

CCV Source: MS LCCV dly_00142

Analyte	ICVL 280-27511/5 08/18/2010 00:00				CCVL 280-27511/17 08/18/2010 00:32				CCVL 280-27511/77 08/18/2010 03:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	5.22		5.00	104	5.23		5.00	105	5.16		5.00	103
Barium	1.08		1.00	108	1.05		1.00	105	1.06		1.00	106
Cadmium	1.04		1.00	104	1.00		1.00	100	1.04		1.00	104
Chromium	2.03		2.00	101	2.06		2.00	103	2.04		2.00	102
Lead	1.08		1.00	108	1.06		1.00	106	1.08		1.00	108
Selenium	4.70	J	5.00	94	4.93	J	5.00	99	4.79	J	5.00	96
Silver	5.16		5.00	103	5.10		5.00	102	5.14		5.00	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112564

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: MS LCCV dly_00142 Concentration Units: ug/L

CCV Source: MS LCCV dly_00142

Analyte	CCVL 280-27511/88 08/18/2010 03:49				CCVL 280-27511/98 08/18/2010 04:17							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	5.15		5.00	103	5.26		5.00	105				
Barium	1.06		1.00	106	1.10		1.00	110				
Cadmium	1.03		1.00	103	1.06		1.00	106				
Chromium	2.06		2.00	103	2.03		2.00	102				
Lead	1.09		1.00	109	1.09		1.00	109				
Selenium	4.86	J	5.00	97	5.81		5.00	116				
Silver	5.12		5.00	102	5.25		5.00	105				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112565

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: Hg H2O ICV_00093 Concentration Units: ug/L

CCV Source: Hg H2O CCV_00083

Analyte	ICV 280-27041/9 08/13/2010 09:08				CCV 280-27041/129 08/13/2010 13:45				CCV 280-27041/141 08/13/2010 14:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	7.10		7.00	101	5.54		5.00	111	5.52		5.00	110

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112566

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: Hg SoilICV_00062 Concentration Units: ug/L

CCV Source: Hg Soil CCV_00066

Analyte	ICV 280-27196/9 08/16/2010 19:17				CCV 280-27196/22 08/16/2010 19:49				CCV 280-27196/34 08/16/2010 20:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	6.68		7.00	95	5.26		5.00	105	5.18		5.00	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

00112567

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICV Source: Hg SoilICV_00062 Concentration Units: ug/L

CCV Source: Hg Soil CCV_00066

Analyte	CCV 280-27196/46 08/16/2010 20:49											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.99		5.00	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Analysis Method: 6020A Instrument ID: MT_024
 Lab Sample ID: CRI 280-27507/8 Concentration Units: ug/L
 CRQL Check Standard Source: MS RL STD_00148

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	1.00	0.983	J	98	80-120
Barium	1.00	1.00		100	80-120
Cadmium	1.00	1.03		103	80-120
Chromium	1.00	0.975	J	98	80-120
Lead	1.00	1.01		101	80-120
Selenium	1.00	0.913	J	91	80-120
Silver	1.00	0.998	J	100	80-120

Lab Sample ID: CRI 280-27511/8 Concentration Units: ug/L
 CRQL Check Standard Source: MS RL STD_00148

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	1.00	0.983	J	98	80-120
Barium	1.00	1.00		100	80-120
Cadmium	1.00	1.03		103	80-120
Chromium	1.00	0.975	J	98	80-120
Lead	1.00	1.01		101	80-120
Selenium	1.00	0.913	J	91	80-120
Silver	1.00	0.998	J	100	80-120

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

3-IN
INSTRUMENT BLANKS
METALS

00112569

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 280-27507/7 08/18/2010 00:05		CCB 280-27507/16 08/18/2010 00:30		CCB 280-27507/157 08/18/2010 07:01		CCB 280-27507/168 08/18/2010 07:31	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	0.60	U	0.60	U	0.60	U	0.60	U
Barium	1.0	0.85	U	0.85	U	0.85	U	0.85	U
Cadmium	1.0	0.12	U	0.12	U	0.12	U	0.12	U
Chromium	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Selenium	5.0	2.0	U	2.0	U	2.0	U	2.0	U
Silver	5.0	0.45	U	0.0427	J	0.0316	J	0.0437	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

00112570

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 280-27507/178 08/18/2010 07:59		CCB 280-27507/187 08/18/2010 08:24					
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	0.60	U	0.60	U				
Barium	1.0	0.85	U	0.85	U				
Cadmium	1.0	0.12	U	0.12	U				
Chromium	2.0	1.5	U	1.5	U				
Lead	1.0	0.50	U	0.50	U				
Selenium	5.0	2.0	U	2.0	U				
Silver	5.0	0.0202	J	0.0306	J				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

00112571

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 280-27511/7 08/18/2010 00:05		CCB 280-27511/16 08/18/2010 00:30		CCB 280-27511/76 08/18/2010 03:16		CCB 280-27511/87 08/18/2010 03:47	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	0.60	U	0.60	U	0.60	U	0.60	U
Barium	1.0	0.85	U	0.85	U	0.85	U	0.85	U
Cadmium	1.0	0.12	U	0.12	U	0.12	U	0.12	U
Chromium	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Selenium	5.0	2.0	U	2.0	U	2.0	U	2.0	U
Silver	5.0	0.045	U	0.0427	J	0.0208	J	0.0268	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

00112572

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 280-27511/97 08/18/2010 04:14							
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	0.60	U						
Barium	1.0	0.85	U						
Cadmium	1.0	0.12	U						
Chromium	2.0	1.5	U						
Lead	1.0	0.50	U						
Selenium	5.0	2.0	U						
Silver	5.0	0.0346	J						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

00112573

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 280-27041/8 08/13/2010 09:06		CCB 280-27041/130 08/13/2010 13:47		CCB 280-27041/142 08/13/2010 14:15			
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.0420	J	0.080	U	0.080	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

00112574

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 280-27196/8 08/16/2010 19:15		CCB 280-27196/23 08/16/2010 19:51		CCB 280-27196/35 08/16/2010 20:24		CCB 280-27196/47 08/16/2010 20:52	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.10	U	0.10	U	0.10	U	0.10	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALSLab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 280-26838/1-AInstrument Code: MT_024 Batch No.: 27507

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.60	U		6020A
7440-39-3	Barium	0.85	U		6020A
7440-43-9	Cadmium	0.12	U	Q	6020A
7440-47-3	Chromium	1.5	U	Q	6020A
7439-92-1	Lead	0.50	U		6020A
7782-49-2	Selenium	2.0	U		6020A
7440-22-4	Silver	0.045	U		6020A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Concentration Units: ug/Kg Lab Sample ID: MB 280-26825/1-A
Instrument Code: MT_024 Batch No.: 27511

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	150	U		6020A
7440-39-3	Barium	200	U		6020A
7440-43-9	Cadmium	25	U	Q	6020A
7440-47-3	Chromium	92.6	J	Q	6020A
7439-92-1	Lead	18.4	J		6020A
7782-49-2	Selenium	250	U		6020A
7440-22-4	Silver	60	U	Q	6020A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 280-26617/1-A
Instrument Code: MT_033 Batch No.: 27041

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.080	U		7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Concentration Units: ug/Kg Lab Sample ID: MB 280-26890/1-A
Instrument Code: MT_033 Batch No.: 27196

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	7.9	U		7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab Sample ID: ICSA 280-27507/10 Instrument ID: MT_024
 Lab File ID: 011ICSA.D ICS Source: MS ICSA_00141
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		0.334	
Barium		0.175	
Cadmium		0.429	
Chromium		1.62	
Lead		0.207	
Selenium		-0.101	
Silver		0.136	
<i>Antimony</i>		<i>0.244</i>	
<i>Beryllium</i>		<i>0.0141</i>	
<i>Co</i>		<i>0.136</i>	
<i>Copper</i>		<i>0.806</i>	
<i>Manganese</i>		<i>0.627</i>	
<i>Molybdenum</i>	<i>2000</i>	<i>1993</i>	<i>100</i>
<i>Nickel</i>		<i>1.03</i>	
<i>Thallium</i>		<i>0.0610</i>	
<i>Tin</i>		<i>0.0997</i>	
<i>Uranium</i>		<i>0.0071</i>	
<i>Vanadium</i>		<i>-0.0091</i>	
<i>Zinc</i>		<i>3.26</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab Sample ID: ICSA 280-27511/10 Instrument ID: MT_024
 Lab File ID: 011ICSA.D ICS Source: MS ICSA_00141
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		0.334	
Barium		0.175	
Cadmium		0.429	
Chromium		1.62	
Lead		0.207	
Selenium		-0.101	
Silver		0.136	
<i>Antimony</i>		<i>0.244</i>	
<i>Beryllium</i>		<i>0.0141</i>	
<i>Co</i>		<i>0.136</i>	
<i>Copper</i>		<i>0.806</i>	
<i>Manganese</i>		<i>0.627</i>	
<i>Molybdenum</i>	<i>2000</i>	<i>1993</i>	<i>100</i>
<i>Nickel</i>		<i>1.03</i>	
<i>Thallium</i>		<i>0.0610</i>	
<i>Tin</i>		<i>0.0997</i>	
<i>Uranium</i>		<i>0.0071</i>	
<i>Vanadium</i>		<i>-0.0091</i>	
<i>Zinc</i>		<i>3.26</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab Sample ID: ICSAB 280-27507/11 Instrument ID: MT_024
 Lab File ID: 012ICSB.D ICS Source: MS ICSAB_00143
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	102	102
Barium	100	102	102
Cadmium	100	94.5	95
Chromium	100	100	100
Lead	100	99.2	99
Selenium	100	104	104
Silver	100	87.9	88
<i>Antimony</i>	<i>100</i>	<i>103</i>	<i>102</i>
<i>Beryllium</i>	<i>100</i>	<i>97.0</i>	<i>97</i>
<i>Co</i>	<i>100</i>	<i>95.2</i>	<i>95</i>
<i>Copper</i>	<i>100</i>	<i>94.4</i>	<i>94</i>
<i>Manganese</i>	<i>100</i>	<i>99.3</i>	<i>99</i>
<i>Molybdenum</i>	<i>2100</i>	<i>2124</i>	<i>101</i>
<i>Nickel</i>	<i>100</i>	<i>94.8</i>	<i>95</i>
<i>Thallium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Tin</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Uranium</i>	<i>100</i>	<i>107</i>	<i>107</i>
<i>Vanadium</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Zinc</i>	<i>100</i>	<i>99.5</i>	<i>99</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
 SDG No.: _____
 Lab Sample ID: ICSAB 280-27511/11 Instrument ID: MT_024
 Lab File ID: 012ICSB.D ICS Source: MS ICSAB_00143
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	102	102
Barium	100	102	102
Cadmium	100	94.5	95
Chromium	100	100	100
Lead	100	99.2	99
Selenium	100	104	104
Silver	100	87.9	88
<i>Antimony</i>	<i>100</i>	<i>103</i>	<i>102</i>
<i>Beryllium</i>	<i>100</i>	<i>97.0</i>	<i>97</i>
<i>Co</i>	<i>100</i>	<i>95.2</i>	<i>95</i>
<i>Copper</i>	<i>100</i>	<i>94.4</i>	<i>94</i>
<i>Manganese</i>	<i>100</i>	<i>99.3</i>	<i>99</i>
<i>Molybdenum</i>	<i>2100</i>	<i>2124</i>	<i>101</i>
<i>Nickel</i>	<i>100</i>	<i>94.8</i>	<i>95</i>
<i>Thallium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Tin</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Uranium</i>	<i>100</i>	<i>107</i>	<i>107</i>
<i>Vanadium</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Zinc</i>	<i>100</i>	<i>99.5</i>	<i>99</i>

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SS3- MS Lab ID: 280-6075-3 MS
Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Concentration Units: ug/Kg
% Solids: 87.9

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	867	620	438	56	80-120	J	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SW SUMP- MS Lab ID: 280-6075-6 MS
Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Water Concentration Units: ug/L
% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	5.10	0.035	J 5.00	101	80-120		7470A

SSR = Spiked Sample Result

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

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SS3- MSD Lab ID: 280-6075-3 MSD
Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
Matrix: Solid Concentration Units: ug/Kg
% Solids: 87.9

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	855	474	49	80-120	1	20	J	7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SW SUMP- MSDLab ID: 280-6075-6 MSDLab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Matrix: WaterConcentration Units: ug/L

% Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	4.82	5.00	96	80-120	6	20		7470A

SDR = Sample Duplicate Result

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

7A-IN
LAB CONTROL SAMPLE
METALSLab ID: LCS 280-26838/2-ALab Name: TestAmerica DenverJob No.: 280-6075-1Sample Matrix: WaterLCS Source: MS CALSTD-1_00016

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	40.0	38.9		97	85	117		6020A
Barium	40.0	39.3		98	85	118		6020A
Cadmium	40.0	39.4		99	85	115	Q	6020A
Chromium	40.0	40.3		101	84	121	Q	6020A
Lead	40.0	41.5		104	85	118		6020A
Selenium	40.0	36.4		91	77	122		6020A
Silver	40.0	40.9		102	85	115		6020A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALSLab ID: LCSD 280-26838/3-ALab Name: TestAmerica DenverJob No.: 280-6075-1Sample Matrix: WaterLCS Source: MS CALSTD-1_00016

Analyte	(SDR) C		Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	40.2		40.0	100	85-117	3	20		6020A
Barium	40.2		40.0	100	85-118	2	20		6020A
Cadmium	39.8		40.0	100	85-115	1	20	Q	6020A
Chromium	42.0		40.0	105	84-121	4	20	Q	6020A
Lead	43.2		40.0	108	85-118	4	20		6020A
Selenium	37.5		40.0	94	77-122	3	20		6020A
Silver	41.3		40.0	103	85-115	1	20		6020A

SDR = Spike Duplicate Results

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

FORM VIID - IN

7A-IN
LAB CONTROL SAMPLE
METALSLab ID: LCS 280-26825/2-ALab Name: TestAmerica DenverJob No.: 280-6075-1Sample Matrix: SolidLCS Source: MS CALSTD-1_00016

Analyte	Solid (ug/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	20000	18700		94	85	117		6020A
Barium	20000	19300		96	85	118		6020A
Cadmium	20000	18600		93	85	115	Q	6020A
Chromium	20000	18900		95	84	121	Q	6020A
Lead	20000	19600		98	85	118		6020A
Selenium	20000	19600		98	77	122		6020A
Silver	20000	18900		94	85	115	Q	6020A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALSLab ID: LCSD 280-26825/3-ALab Name: TestAmerica DenverJob No.: 280-6075-1Sample Matrix: SolidLCS Source: MS CALSTD-1_00016

Analyte	(SDR) C		Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	19300		20000	97	85-117	3	20		6020A
Barium	19400		20000	97	85-118	1	20		6020A
Cadmium	19000		20000	95	85-115	2	20	Q	6020A
Chromium	19500		20000	98	84-121	3	20	Q	6020A
Lead	19900		20000	100	85-118	2	20		6020A
Selenium	19900		20000	99	77-122	1	20		6020A
Silver	19000		20000	95	85-115	0	20	Q	6020A

SDR = Spike Duplicate Results

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

FORM VIID - IN

7A-IN
LAB CONTROL SAMPLE
METALSLab ID: LCS 280-26617/2-ALab Name: TestAmerica DenverJob No.: 280-6075-1Sample Matrix: WaterLCS Source: Hg Daily Spk_00127

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	5.50		110	80	120		7470A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 280-26617/3-A

Lab Name: TestAmerica Denver

Job No.: 280-6075-1

Sample Matrix: Water

LCS Source: Hg Daily Spk_00127

Analyte	(SDR) C		Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	5.51		5.00	110	80-120	0.3	20		7470A

SDR = Spike Duplicate Results

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

FORM VIID - IN

7A-IN
LAB CONTROL SAMPLE
METALSLab ID: LCS 280-26890/2-ALab Name: TestAmerica DenverJob No.: 280-6075-1Sample Matrix: SolidLCS Source: Hg Daily Spk_00128

Analyte	Solid (ug/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	410	398		97	80	120		7471B

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-6075-3

SDG No:

Lab Name: TestAmerica Denver

Job No: 280-6075-1

Matrix: Solid

Concentration Units: ug/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Mercury	620		661		6.4	D	7471B

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-6075-6

SDG No:

Lab Name: TestAmerica Denver

Job No: 280-6075-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample		Serial		% Difference	Q	Method
	Result (I)	C	Dilution Result (S)	C			
Mercury	0.035	J	0.160	J	NC	D	7470A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Water Instrument ID: MT_024
Analysis Method: 6020A DL Date: 04/26/2010 12:13
Prep Method: 3020A
Leach Method: _____

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Arsenic	75	5	0.21
Barium	137	3	0.29
Cadmium	111	1	0.04
Chromium	52	10	0.5
Lead	208	3	0.18
Selenium	78	5	0.7
Silver	107	5	0.015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Water Instrument ID: MT_024
Analysis Method: 6020A XMDL Date: 04/26/2010 12:13

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		5	0.21
Barium		1	0.29
Cadmium		1	0.04
Chromium		2	0.5
Lead		1	0.18
Selenium		5	0.7
Silver		5	0.015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Solid Instrument ID: MT_024
Analysis Method: 6020A DL Date: 07/23/2010 13:42
Prep Method: 3050B
Leach Method: _____

Analyte	Wavelength/ Mass	LOQ (ug/Kg)	DL (ug/Kg)
Arsenic	75	600	50.6
Barium	137	250	70.5
Cadmium	111	100	9.38
Chromium	52	600	76
Lead	208	400	18.2
Selenium	78	500	133
Silver	107	100	20.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Solid Instrument ID: MT_024
Analysis Method: 6020A XMDL Date: 12/22/2009 10:16

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		5	0.21
Barium		1	0.29
Cadmium		1	0.04
Chromium		2	0.5
Lead		1	0.18
Selenium		5	0.7
Silver		5	0.015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Water Instrument ID: MT_033
Analysis Method: 7470A DL Date: 11/01/2009 00:00
Prep Method: 7470A
Leach Method: _____

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Mercury	253.7	0.2	0.027

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Water Instrument ID: MT_033
Analysis Method: 7470A XMDL Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.027

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Solid Instrument ID: MT_033
Analysis Method: 7471B DL Date: 11/01/2009 00:00
Prep Method: 7471B
Leach Method: _____

Analyte	Wavelength/ Mass	LOQ (ug/Kg)	DL (ug/Kg)
Mercury	253.7	17	5.53

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Solid Instrument ID: MT_033
Analysis Method: 7471B XMDL Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.204	0.0664

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica DenverJob No: 280-6075-1

SDG No.: _____

Instrument ID: MT_024Date: 07/06/2010 11:36

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		4000	6020A
Barium		4000	6020A
Cadmium		4000	6020A
Chromium		4000	6020A
Lead		4000	6020A
Selenium		4000	6020A
Silver		4000	6020A

12-IN
PREPARATION LOG
METALSLab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-26825/1-A	08/17/2010 07:00	26825	1		100
LCS 280-26825/2-A	08/17/2010 07:00	26825	1		100
LCSD 280-26825/3-A	08/17/2010 07:00	26825	1		100
280-6075-1	08/17/2010 07:00	26825	1.13		100
280-6075-2	08/17/2010 07:00	26825	1.14		100
280-6075-3	08/17/2010 07:00	26825	1.01		100
280-6075-4	08/17/2010 07:00	26825	1.04		100
280-6075-8	08/17/2010 07:00	26825	1.02		100

12-IN
PREPARATION LOG
METALSLab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Preparation Method: 3020A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-26838/1-A	08/16/2010 12:00	26838		50	50
LCS 280-26838/2-A	08/16/2010 12:00	26838		50	50
LCSD 280-26838/3-A	08/16/2010 12:00	26838		50	50
280-6075-5	08/16/2010 12:00	26838		50	50
280-6075-6	08/16/2010 12:00	26838		50	50
280-6075-7	08/16/2010 12:00	26838		50	50

12-IN
PREPARATION LOG
METALSLab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Preparation Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-26617/1-A	08/12/2010 20:00	26617		10	10
LCS 280-26617/2-A	08/12/2010 20:00	26617		10	10
LCSD 280-26617/3-A	08/12/2010 20:00	26617		10	10
280-6075-5	08/12/2010 20:00	26617		10	10
280-6075-6	08/12/2010 20:00	26617		10	10
280-6075-6 MS	08/12/2010 20:00	26617		10	10
280-6075-6 MSD	08/12/2010 20:00	26617		10	10
280-6075-7	08/12/2010 20:00	26617		10	10

12-IN
PREPARATION LOG
METALSLab Name: TestAmerica DenverJob No.: 280-6075-1

SDG No.: _____

Preparation Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-26890/1-A	08/16/2010 16:30	26890	0.63		50
LCS 280-26890/2-A	08/16/2010 16:30	26890	0.61		50
280-6075-1	08/16/2010 16:30	26890	0.64		50
280-6075-2	08/16/2010 16:30	26890	0.64		50
280-6075-3	08/16/2010 16:30	26890	0.62		50
280-6075-3 MS	08/16/2010 16:30	26890	0.65		50
280-6075-3 MSD	08/16/2010 16:30	26890	0.60		50
280-6075-4	08/16/2010 16:30	26890	0.60		50
280-6075-8	08/16/2010 16:30	26890	0.62		50

13-IN
ANALYSIS RUN LOG
METALS

00112609

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 12:30

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A g	A s	B a	C d	C r	P b	S e											
ITUNE 280-27507/1			23:46																		
IC 280-27507/2			23:51	X	X	X	X	X	X	X											
IC 280-27507/3	1		23:54	X	X	X	X	X	X	X											
ICV 280-27507/4	1		23:57	X	X	X	X	X	X	X											
ICVL 280-27507/5	1		00:00	X	X	X	X	X	X	X											
ICB 280-27507/6			00:02																		
ICB 280-27507/7	1		00:05	X	X	X	X	X	X	X											
CRI 280-27507/8	1		00:08	X	X	X	X	X	X	X											
ZZZZZZ			00:11																		
ICSA 280-27507/10	1		00:13	X	X	X	X	X	X	X											
ICSAB 280-27507/11	1		00:16	X	X	X	X	X	X	X											
RINSE 280-27507/12			00:19																		
LRA 280-27507/13			00:22																		
RINSE 280-27507/14			00:24																		
CCV 280-27507/15	1		00:27	X	X	X	X	X	X	X											
CCB 280-27507/16	1		00:30	X	X	X	X	X	X	X											
CCVL 280-27507/17	1		00:32	X	X	X	X	X	X	X											
ZZZZZZ			00:35																		
ZZZZZZ			00:38																		
ZZZZZZ			00:41																		
ZZZZZZ			00:43																		
ZZZZZZ			00:46																		
ZZZZZZ			00:49																		
ZZZZZZ			00:52																		
ZZZZZZ			00:54																		
ZZZZZZ			00:57																		
CCV 280-27507/27			01:00																		
CCB 280-27507/28			01:03																		
ZZZZZZ			01:06																		
ZZZZZZ			01:09																		
ZZZZZZ			01:12																		
ZZZZZZ			01:14																		
ZZZZZZ			01:17																		
ZZZZZZ			01:20																		
ZZZZZZ			01:23																		
ZZZZZZ			01:25																		
ZZZZZZ			01:28																		
CCV 280-27507/38			01:31																		
CCB 280-27507/39			01:34																		
ZZZZZZ			01:37																		
ZZZZZZ			01:39																		
ZZZZZZ			01:42																		

13-IN
ANALYSIS RUN LOG
METALS

00112610

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 12:30

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			01:45																
ZZZZZZ			01:48																
ZZZZZZ			01:50																
ZZZZZZ			01:53																
ZZZZZZ			01:56																
CCV 280-27507/48			01:59																
CCB 280-27507/49			02:02																
ZZZZZZ			02:04																
ZZZZZZ			02:07																
ZZZZZZ			02:10																
ZZZZZZ			02:13																
ZZZZZZ			02:15																
ZZZZZZ			02:18																
ZZZZZZ			02:21																
CCV 280-27507/57			02:24																
CCB 280-27507/58			02:26																
ZZZZZZ			02:29																
ZZZZZZ			02:32																
ZZZZZZ			02:35																
ZZZZZZ			02:37																
ZZZZZZ			02:40																
ZZZZZZ			02:43																
ZZZZZZ			02:46																
CCV 280-27507/66			02:48																
CCB 280-27507/67			02:51																
ZZZZZZ			02:54																
ZZZZZZ			02:57																
ZZZZZZ			03:00																
ZZZZZZ			03:02																
ZZZZZZ			03:05																
ZZZZZZ			03:08																
ZZZZZZ			03:11																
CCV 280-27507/75			03:13																
CCB 280-27507/76			03:16																
CCVL 280-27507/77			03:19																
ZZZZZZ			03:22																
ZZZZZZ			03:24																
ZZZZZZ			03:27																
ZZZZZZ			03:30																
ZZZZZZ			03:33																
ZZZZZZ			03:36																
ZZZZZZ			03:38																

13-IN
ANALYSIS RUN LOG
METALS

00112611

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 12:30

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			03:41																
CCV 280-27507/86			03:44																
CCB 280-27507/87			03:47																
CCVL 280-27507/88			03:49																
ZZZZZZ			03:52																
ZZZZZZ			03:55																
ZZZZZZ			03:58																
ZZZZZZ			04:00																
ZZZZZZ			04:03																
ZZZZZZ			04:06																
ZZZZZZ			04:09																
CCV 280-27507/96			04:12																
CCB 280-27507/97			04:14																
CCVL 280-27507/98			04:17																
ZZZZZZ			04:20																
ZZZZZZ			04:23																
ZZZZZZ			04:25																
ZZZZZZ			04:28																
ZZZZZZ			04:31																
ZZZZZZ			04:34																
ZZZZZZ			04:36																
CCV 280-27507/106			04:39																
CCB 280-27507/107			04:42																
CCVL 280-27507/108			04:45																
RINSE 280-27507/109			04:47																
RINSE 280-27507/110			04:50																
RINSE 280-27507/111			04:53																
ZZZZZZ			04:56																
IC 280-27507/113			04:58	X	X	X	X	X	X	X									
IC 280-27507/114			05:01	X	X	X	X	X	X	X									
CCV 280-27507/115			05:04																
CCB 280-27507/116			05:07																
CCVL 280-27507/117			05:09																
ZZZZZZ			05:12																
ZZZZZZ			05:15																
ZZZZZZ			05:18																
ZZZZZZ			05:21																
ZZZZZZ			05:23																
ZZZZZZ			05:26																
ZZZZZZ			05:29																
ZZZZZZ			05:32																
ZZZZZZ			05:34																

13-IN
ANALYSIS RUN LOG
METALS

00112612

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 12:30

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A g	A s	B a	C d	C r	P b	S e											
CCV 280-27507/127			05:37																		
CCB 280-27507/128			05:40																		
ZZZZZZ			05:43																		
ZZZZZZ			05:46																		
ZZZZZZ			05:48																		
ZZZZZZ			05:51																		
ZZZZZZ			05:54																		
ZZZZZZ			05:57																		
ZZZZZZ			06:00																		
CCV 280-27507/136			06:02																		
CCB 280-27507/137			06:05																		
CCVL 280-27507/138			06:08																		
ZZZZZZ			06:11																		
ZZZZZZ			06:13																		
ZZZZZZ			06:16																		
ZZZZZZ			06:19																		
ZZZZZZ			06:22																		
ZZZZZZ			06:25																		
ZZZZZZ			06:27																		
ZZZZZZ			06:30																		
ZZZZZZ			06:33																		
CCV 280-27507/148			06:36																		
CCB 280-27507/149			06:39																		
RINSE 280-27507/150			06:41																		
RINSE 280-27507/151			06:44																		
RINSE 280-27507/152			06:47																		
ZZZZZZ			06:49																		
IC 280-27507/154	1		06:52	X	X	X	X	X	X	X											
IC 280-27507/155	1		06:55	X	X	X	X	X	X	X											
CCV 280-27507/156	1		06:58	X	X	X	X	X	X	X											
CCB 280-27507/157	1		07:01	X	X	X	X	X	X	X											
CCVL 280-27507/158	1		07:03	X	X	X	X	X	X	X											
MB 280-26838/1-A	1	T	07:06	X	X	X	X	X	X	X											
LCS 280-26838/2-A	1	T	07:09	X	X	X	X	X	X	X											
LCSD 280-26838/3-A	1	T	07:12	X	X	X	X	X	X	X											
280-6075-5	1	T	07:14	X	X	X	X	X	X	X											
280-6075-6	1	T	07:17	X	X	X	X	X	X	X											
280-6075-7	1	T	07:20	X	X	X	X	X	X	X											
ZZZZZZ			07:23																		
ZZZZZZ			07:26																		
CCV 280-27507/167	1		07:28	X	X	X	X	X	X	X											
CCB 280-27507/168	1		07:31	X	X	X	X	X	X	X											

13-IN
ANALYSIS RUN LOG
METALS

00112613

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 12:30

Lab Sample ID	D / F	T y p e	Time	Analytes																
				A g	A s	B a	C d	C r	P b	S e										
CCVL 280-27507/169	1		07:34	X	X	X	X	X	X	X										
ZZZZZZ			07:37																	
ZZZZZZ			07:40																	
ZZZZZZ			07:42																	
ZZZZZZ			07:45																	
ZZZZZZ			07:48																	
ZZZZZZ			07:51																	
ZZZZZZ			07:54																	
CCV 280-27507/177	1		07:56	X	X	X	X	X	X	X										
CCB 280-27507/178	1		07:59	X	X	X	X	X	X	X										
CCVL 280-27507/179	1		08:02	X	X	X	X	X	X	X										
ZZZZZZ			08:05																	
ZZZZZZ			08:07																	
ZZZZZZ			08:10																	
ZZZZZZ			08:13																	
ZZZZZZ			08:16																	
ZZZZZZ			08:18																	
CCV 280-27507/186	1		08:21	X	X	X	X	X	X	X										
CCB 280-27507/187	1		08:24	X	X	X	X	X	X	X										
CCVL 280-27507/188	1		08:27	X	X	X	X	X	X	X										
RINSE 280-27507/189			08:30																	
RINSE 280-27507/190			08:32																	
RINSE 280-27507/191			08:35																	
ZZZZZZ			08:38																	
IC 280-27507/193			08:41	X	X	X	X	X	X	X										
IC 280-27507/194			08:43	X	X	X	X	X	X	X										
CCV 280-27507/195			08:46																	
CCB 280-27507/196			08:49																	
CCVL 280-27507/197			08:52																	
ZZZZZZ			08:54																	
ZZZZZZ			08:57																	
ZZZZZZ			09:00																	
ZZZZZZ			09:03																	
ZZZZZZ			09:06																	
ZZZZZZ			09:08																	
ZZZZZZ			09:11																	
CCV 280-27507/205			09:14																	
CCB 280-27507/206			09:17																	
ZZZZZZ			09:20																	
ZZZZZZ			09:22																	
ZZZZZZ			09:25																	
ZZZZZZ			09:28																	

13-IN
ANALYSIS RUN LOG
METALS

00112614

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 12:30

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			09:31																
ZZZZZZ			09:34																
ZZZZZZ			09:37																
ZZZZZZ			09:39																
CCV 280-27507/215			09:42																
CCB 280-27507/216			09:45																
ZZZZZZ			09:48																
ZZZZZZ			09:51																
ZZZZZZ			09:53																
ZZZZZZ			09:56																
ZZZZZZ			09:59																
ZZZZZZ			10:02																
CCV 280-27507/223			10:05																
CCB 280-27507/224			10:07																
ZZZZZZ			10:10																
ZZZZZZ			10:13																
CCV 280-27507/227			10:16																
CCB 280-27507/228			10:19																
RINSE 280-27507/229			10:21																
RINSE 280-27507/230			10:24																
RINSE 280-27507/231			10:27																
ZZZZZZ			10:30																
IC 280-27507/233			10:32	X	X	X	X	X	X	X									
IC 280-27507/234			10:35	X	X	X	X	X	X	X									
CCV 280-27507/235			10:38																
CCB 280-27507/236			10:41																
ZZZZZZ			10:43																
ZZZZZZ			10:46																
ZZZZZZ			10:49																
ZZZZZZ			10:52																
ZZZZZZ			10:55																
ZZZZZZ			10:58																
ZZZZZZ			11:00																
ZZZZZZ			11:03																
ZZZZZZ			11:06																
CCV 280-27507/246			11:09																
CCB 280-27507/247			11:11																
ZZZZZZ			11:14																
ZZZZZZ			11:17																
ZZZZZZ			11:20																
ZZZZZZ			11:23																
ZZZZZZ			11:26																

13-IN
ANALYSIS RUN LOG
METALS

00112615

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 12:30

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			11:28																
ZZZZZZ			11:31																
CCV 280-27507/255			11:34																
CCB 280-27507/256			11:37																
ZZZZZZ			11:39																
ZZZZZZ			11:42																
ZZZZZZ			11:45																
ZZZZZZ			11:48																
ZZZZZZ			11:51																
ZZZZZZ			11:53																
ZZZZZZ			11:56																
CCV 280-27507/264			11:59																
CCB 280-27507/265			12:02																
ZZZZZZ			12:05																
ZZZZZZ			12:07																
ZZZZZZ			12:10																
ZZZZZZ			12:13																
ZZZZZZ			12:16																
ZZZZZZ			12:19																
ZZZZZZ			12:21																
ZZZZZZ			12:24																
CCV 280-27507/274			12:27																
CCB 280-27507/275			12:30																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

00112616

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 04:45

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A s	B a	C d	C r	P b	S e													
ITUNE 280-27511/1			23:46																				
IC 280-27511/2	1		23:51	X	X	X	X	X	X	X													
IC 280-27511/3	1		23:54	X	X	X	X	X	X	X													
ICV 280-27511/4	1		23:57	X	X	X	X	X	X	X													
ICVL 280-27511/5	1		00:00	X	X	X	X	X	X	X													
ICB 280-27511/6			00:02																				
ICB 280-27511/7	1		00:05	X	X	X	X	X	X	X													
CRI 280-27511/8	1		00:08	X	X	X	X	X	X	X													
ZZZZZZ			00:11																				
ICSA 280-27511/10	1		00:13	X	X	X	X	X	X	X													
ICSAB 280-27511/11	1		00:16	X	X	X	X	X	X	X													
RINSE 280-27511/12			00:19																				
LRA 280-27511/13			00:22																				
RINSE 280-27511/14			00:24																				
CCV 280-27511/15	1		00:27	X	X	X	X	X	X	X													
CCB 280-27511/16	1		00:30	X	X	X	X	X	X	X													
CCVL 280-27511/17	1		00:32	X	X	X	X	X	X	X													
ZZZZZZ			00:35																				
ZZZZZZ			00:38																				
ZZZZZZ			00:41																				
ZZZZZZ			00:43																				
ZZZZZZ			00:46																				
ZZZZZZ			00:49																				
ZZZZZZ			00:52																				
ZZZZZZ			00:54																				
ZZZZZZ			00:57																				
CCV 280-27511/27			01:00																				
CCB 280-27511/28			01:03																				
ZZZZZZ			01:06																				
ZZZZZZ			01:09																				
ZZZZZZ			01:12																				
ZZZZZZ			01:14																				
ZZZZZZ			01:17																				
ZZZZZZ			01:20																				
ZZZZZZ			01:23																				
ZZZZZZ			01:25																				
ZZZZZZ			01:28																				
CCV 280-27511/38			01:31																				
CCB 280-27511/39			01:34																				
ZZZZZZ			01:37																				
ZZZZZZ			01:39																				
ZZZZZZ			01:42																				

13-IN
ANALYSIS RUN LOG
METALS

00112617

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 04:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			01:45																
ZZZZZZ			01:48																
ZZZZZZ			01:50																
ZZZZZZ			01:53																
ZZZZZZ			01:56																
CCV 280-27511/48			01:59																
CCB 280-27511/49			02:02																
ZZZZZZ			02:04																
ZZZZZZ			02:07																
ZZZZZZ			02:10																
ZZZZZZ			02:13																
ZZZZZZ			02:15																
ZZZZZZ			02:18																
ZZZZZZ			02:21																
CCV 280-27511/57			02:24																
CCB 280-27511/58			02:26																
ZZZZZZ			02:29																
ZZZZZZ			02:32																
ZZZZZZ			02:35																
ZZZZZZ			02:37																
ZZZZZZ			02:40																
ZZZZZZ			02:43																
ZZZZZZ			02:46																
CCV 280-27511/66			02:48																
CCB 280-27511/67			02:51																
ZZZZZZ			02:54																
ZZZZZZ			02:57																
ZZZZZZ			03:00																
ZZZZZZ			03:02																
ZZZZZZ			03:05																
ZZZZZZ			03:08																
ZZZZZZ			03:11																
CCV 280-27511/75	1		03:13	X	X	X	X	X	X	X									
CCB 280-27511/76	1		03:16	X	X	X	X	X	X	X									
CCVL 280-27511/77	1		03:19	X	X	X	X	X	X	X									
MB 280-26825/1-A	1	T	03:22	X	X	X	X	X	X	X									
LCS 280-26825/2-A	1	T	03:24	X	X	X	X	X	X	X									
LCSD 280-26825/3-A	1	T	03:27	X	X	X	X	X	X	X									
280-6075-1	1	T	03:30	X	X	X	X	X	X	X									
280-6075-2	1	T	03:33	X	X	X	X	X	X	X									
280-6075-3	1	T	03:36	X	X	X	X	X	X	X									
280-6075-4	1	T	03:38	X	X	X	X	X	X	X									

13-IN
ANALYSIS RUN LOG
METALS

00112618

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_024 Method: 6020A

Start Date: 08/17/2010 23:46 End Date: 08/18/2010 04:45

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A g	A s	B a	C d	C r	P b	S e											
280-6075-8	1	T	03:41	X	X	X	X	X	X	X											
CCV 280-27511/86	1		03:44	X	X	X	X	X	X	X											
CCB 280-27511/87	1		03:47	X	X	X	X	X	X	X											
CCVL 280-27511/88	1		03:49	X	X	X	X	X	X	X											
ZZZZZZ			03:52																		
ZZZZZZ			03:55																		
ZZZZZZ			03:58																		
ZZZZZZ			04:00																		
ZZZZZZ			04:03																		
ZZZZZZ			04:06																		
ZZZZZZ			04:09																		
CCV 280-27511/96	1		04:12	X	X	X	X	X	X	X											
CCB 280-27511/97	1		04:14	X	X	X	X	X	X	X											
CCVL 280-27511/98	1		04:17	X	X	X	X	X	X	X											
ZZZZZZ			04:20																		
ZZZZZZ			04:23																		
ZZZZZZ			04:25																		
ZZZZZZ			04:28																		
ZZZZZZ			04:31																		
ZZZZZZ			04:34																		
ZZZZZZ			04:36																		
CCV 280-27511/106			04:39																		
CCB 280-27511/107			04:42																		
CCVL 280-27511/108			04:45																		

Prep Types

T = Total/NA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7470A

Start Date: 08/13/2010 08:47 End Date: 08/13/2010 19:18

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
STD0 280-27041/1 IC			08:47	X																	
STD1 280-27041/2 IC			08:49	X																	
STD2 280-27041/3 IC			08:52	X																	
STD3 280-27041/4 IC			08:54	X																	
STD4 280-27041/5 IC			08:56	X																	
STD5 280-27041/6 IC			08:59	X																	
STD6 280-27041/7 IC			09:01	X																	
ICB 280-27041/8	1		09:06	X																	
ICV 280-27041/9	1		09:08	X																	
CRA 280-27041/10			09:10																		
CCV 280-27041/11			09:13																		
CCB 280-27041/12			09:15																		
ZZZZZZ			09:17																		
ZZZZZZ			09:20																		
ZZZZZZ			09:22																		
ZZZZZZ			09:24																		
ZZZZZZ			09:27																		
ZZZZZZ			09:29																		
ZZZZZZ			09:31																		
ZZZZZZ			09:34																		
ZZZZZZ			09:36																		
CCV 280-27041/22			09:38																		
CCB 280-27041/23			09:40																		
ZZZZZZ			09:43																		
ZZZZZZ			09:45																		
ZZZZZZ			09:47																		
ZZZZZZ			09:50																		
ZZZZZZ			09:52																		
ZZZZZZ			09:54																		
ZZZZZZ			09:57																		
ZZZZZZ			09:59																		
ZZZZZZ			10:01																		
CCV 280-27041/33			10:04																		
CCB 280-27041/34			10:06																		
ZZZZZZ			10:08																		
ZZZZZZ			10:10																		
ZZZZZZ			10:13																		
ZZZZZZ			10:15																		
ZZZZZZ			10:17																		
ZZZZZZ			10:20																		
ZZZZZZ			10:22																		
ZZZZZZ			10:24																		

13-IN
ANALYSIS RUN LOG
METALS

00112620

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7470A

Start Date: 08/13/2010 08:47 End Date: 08/13/2010 19:18

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			10:27																
ZZZZZZ			10:29																
CCV 280-27041/45			10:31																
CCB 280-27041/46			10:33																
ZZZZZZ			10:36																
ZZZZZZ			10:38																
ZZZZZZ			10:40																
ZZZZZZ			10:43																
ZZZZZZ			10:45																
ZZZZZZ			10:47																
ZZZZZZ			10:50																
ZZZZZZ			10:52																
ZZZZZZ			10:54																
ZZZZZZ			10:57																
CCV 280-27041/57			10:59																
CCB 280-27041/58			11:01																
ZZZZZZ			11:03																
ZZZZZZ			11:06																
ZZZZZZ			11:08																
ZZZZZZ			11:10																
ZZZZZZ			11:13																
ZZZZZZ			11:15																
ZZZZZZ			11:17																
ZZZZZZ			11:20																
ZZZZZZ			11:22																
ZZZZZZ			11:24																
CCV 280-27041/69			11:27																
CCB 280-27041/70			11:29																
ZZZZZZ			11:31																
ZZZZZZ			11:33																
ZZZZZZ			11:36																
ZZZZZZ			11:38																
ZZZZZZ			11:40																
ZZZZZZ			11:43																
ZZZZZZ			11:45																
ZZZZZZ			11:47																
ZZZZZZ			11:50																
ZZZZZZ			11:52																
CCV 280-27041/81			11:54																
CCB 280-27041/82			11:57																
ZZZZZZ			11:59																
ZZZZZZ			12:01																

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7470A

Start Date: 08/13/2010 08:47 End Date: 08/13/2010 19:18

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			12:03																
ZZZZZZ			12:06																
ZZZZZZ			12:08																
ZZZZZZ			12:10																
ZZZZZZ			12:13																
ZZZZZZ			12:15																
ZZZZZZ			12:17																
ZZZZZZ			12:20																
CCV 280-27041/93			12:22																
CCB 280-27041/94			12:24																
ZZZZZZ			12:27																
ZZZZZZ			12:29																
ZZZZZZ			12:31																
ZZZZZZ			12:33																
ZZZZZZ			12:36																
ZZZZZZ			12:38																
ZZZZZZ			12:40																
ZZZZZZ			12:43																
ZZZZZZ			12:45																
ZZZZZZ			12:47																
CCV 280-27041/105			12:50																
CCB 280-27041/106			12:52																
ZZZZZZ			12:54																
ZZZZZZ			12:57																
ZZZZZZ			12:59																
ZZZZZZ			13:01																
ZZZZZZ			13:03																
ZZZZZZ			13:06																
ZZZZZZ			13:08																
ZZZZZZ			13:10																
ZZZZZZ			13:13																
ZZZZZZ			13:15																
CCV 280-27041/117			13:17																
CCB 280-27041/118			13:20																
ZZZZZZ			13:22																
ZZZZZZ			13:24																
ZZZZZZ			13:27																
ZZZZZZ			13:29																
ZZZZZZ			13:31																
ZZZZZZ			13:34																
ZZZZZZ			13:36																
ZZZZZZ			13:38																

13-IN
ANALYSIS RUN LOG
METALS

00112622

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7470A

Start Date: 08/13/2010 08:47 End Date: 08/13/2010 19:18

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			13:41																
ZZZZZZ			13:43																
CCV 280-27041/129	1		13:45	X															
CCB 280-27041/130	1		13:47	X															
ZZZZZZ			13:50																
MB 280-26617/1-A	1	T	13:52	X															
LCS 280-26617/2-A	1	T	13:54	X															
LCSD 280-26617/3-A	1	T	13:57	X															
280-6075-5	1	T	13:59	X															
280-6075-6	1	T	14:01	X															
280-6075-6 SD	5	T	14:04	X															
280-6075-6 MS	1	T	14:06	X															
280-6075-6 MSD	1	T	14:08	X															
280-6075-7	1	T	14:11	X															
CCV 280-27041/141	1		14:13	X															
CCB 280-27041/142	1		14:15	X															
ZZZZZZ			14:18																
ZZZZZZ			14:20																
ZZZZZZ			14:22																
ZZZZZZ			14:24																
ZZZZZZ			14:27																
ZZZZZZ			14:29																
ZZZZZZ			14:31																
ZZZZZZ			14:34																
ZZZZZZ			14:36																
ZZZZZZ			14:38																
CCV 280-27041/153			14:41																
CCB 280-27041/154			14:43																
ZZZZZZ			14:45																
ZZZZZZ			14:48																
ZZZZZZ			14:50																
ZZZZZZ			14:52																
ZZZZZZ			14:55																
ZZZZZZ			14:57																
ZZZZZZ			14:59																
ZZZZZZ			15:02																
ZZZZZZ			15:04																
ZZZZZZ			15:06																
CCV 280-27041/165			15:09																
CCB 280-27041/166			15:11																
CCB 280-27041/167			15:17																
ZZZZZZ			15:22																

13-IN
ANALYSIS RUN LOG
METALS

00112623

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7470A

Start Date: 08/13/2010 08:47 End Date: 08/13/2010 19:18

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			15:25																
ZZZZZZ			15:27																
ZZZZZZ			15:29																
ZZZZZZ			15:32																
ZZZZZZ			15:34																
CCV 280-27041/174			15:36																
CCB 280-27041/175			15:39																
ZZZZZZ			15:41																
ZZZZZZ			15:43																
ZZZZZZ			15:46																
ZZZZZZ			15:48																
ZZZZZZ			15:50																
CCV 280-27041/181			15:53																
CCB 280-27041/182			15:55																
ZZZZZZ			15:57																
ZZZZZZ			16:00																
ZZZZZZ			16:02																
ZZZZZZ			16:04																
ZZZZZZ			16:07																
ZZZZZZ			16:09																
ZZZZZZ			16:11																
ZZZZZZ			16:14																
ZZZZZZ			16:16																
ZZZZZZ			16:18																
ZZZZZZ			16:21																
ZZZZZZ			16:23																
ZZZZZZ			16:25																
ZZZZZZ			16:28																
ZZZZZZ			16:30																
ZZZZZZ			16:32																
ZZZZZZ			16:35																
ZZZZZZ			16:37																
ZZZZZZ			16:39																
CCV 280-27041/202			16:44																
CCB 280-27041/203			16:46																
ZZZZZZ			16:48																
ZZZZZZ			16:51																
ZZZZZZ			16:53																
ZZZZZZ			16:55																
ZZZZZZ			16:58																
ZZZZZZ			17:00																
ZZZZZZ			17:02																

13-IN
ANALYSIS RUN LOG
METALS

00112624

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7470A

Start Date: 08/13/2010 08:47 End Date: 08/13/2010 19:18

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			17:05																
ZZZZZZ			17:07																
ZZZZZZ			17:09																
CCV 280-27041/214			17:12																
CCB 280-27041/215			17:14																
ZZZZZZ			17:16																
ZZZZZZ			17:19																
ZZZZZZ			17:21																
ZZZZZZ			17:23																
ZZZZZZ			17:26																
ZZZZZZ			17:28																
ZZZZZZ			17:30																
ZZZZZZ			17:33																
ZZZZZZ			17:35																
ZZZZZZ			17:37																
CCV 280-27041/226			17:40																
CCB 280-27041/227			17:42																
ZZZZZZ			17:44																
ZZZZZZ			17:47																
ZZZZZZ			17:49																
ZZZZZZ			17:51																
ZZZZZZ			17:54																
ZZZZZZ			17:56																
ZZZZZZ			17:58																
ZZZZZZ			18:01																
ZZZZZZ			18:03																
ZZZZZZ			18:05																
CCV 280-27041/238			18:08																
CCB 280-27041/239			18:10																
ZZZZZZ			18:12																
ZZZZZZ			18:15																
ZZZZZZ			18:17																
ZZZZZZ			18:19																
ZZZZZZ			18:22																
ZZZZZZ			18:24																
ZZZZZZ			18:26																
ZZZZZZ			18:29																
CCV 280-27041/248			18:31																
CCB 280-27041/249			18:33																
ZZZZZZ			18:36																
ZZZZZZ			18:38																
ZZZZZZ			18:40																

13-IN
ANALYSIS RUN LOG
METALS

00112625

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7470A

Start Date: 08/13/2010 08:47 End Date: 08/13/2010 19:18

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
ZZZZZZ			18:43																		
ZZZZZZ			18:45																		
ZZZZZZ			18:50																		
CCV 280-27041/256			18:52																		
CCB 280-27041/257			18:54																		
ZZZZZZ			18:57																		
ZZZZZZ			18:59																		
ZZZZZZ			19:01																		
ZZZZZZ			19:04																		
ZZZZZZ			19:06																		
ZZZZZZ			19:08																		
ZZZZZZ			19:11																		
CCV 280-27041/265			19:15																		
CCB 280-27041/266			19:18																		

Prep Types

T = Total/NA

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7471B

Start Date: 08/16/2010 18:57 End Date: 08/17/2010 02:15

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
STD0 280-27196/1 IC			18:57	X																	
STD1 280-27196/2 IC			18:59	X																	
STD2 280-27196/3 IC			19:02	X																	
STD3 280-27196/4 IC			19:04	X																	
STD4 280-27196/5 IC			19:06	X																	
STD5 280-27196/6 IC			19:09	X																	
STD6 280-27196/7 IC			19:11	X																	
ICB 280-27196/8	1		19:15	X																	
ICV 280-27196/9	1		19:17	X																	
CRA 280-27196/10			19:21																		
CCV 280-27196/11			19:23																		
CCB 280-27196/12			19:25																		
ZZZZZZ			19:28																		
ZZZZZZ			19:30																		
ZZZZZZ			19:32																		
ZZZZZZ			19:35																		
ZZZZZZ			19:37																		
ZZZZZZ			19:39																		
ZZZZZZ			19:42																		
ZZZZZZ			19:44																		
ZZZZZZ			19:46																		
CCV 280-27196/22	1		19:49	X																	
CCB 280-27196/23	1		19:51	X																	
ZZZZZZ			19:53																		
ZZZZZZ			19:55																		
MB 280-26890/1-A	1	T	19:58	X																	
LCS 280-26890/2-A	1	T	20:00	X																	
280-6075-1	1	T	20:02	X																	
280-6075-2	1	T	20:05	X																	
280-6075-3	1	T	20:07	X																	
280-6075-3 SD	5	T	20:11	X																	
280-6075-3 MS	1	T	20:13	X																	
280-6075-3 MSD	1	T	20:18	X																	
CCV 280-27196/34	1		20:22	X																	
CCB 280-27196/35	1		20:24	X																	
280-6075-4	1	T	20:26	X																	
280-6075-8	1	T	20:29	X																	
ZZZZZZ			20:31																		
ZZZZZZ			20:33																		
ZZZZZZ			20:36																		
ZZZZZZ			20:38																		
ZZZZZZ			20:40																		

13-IN
ANALYSIS RUN LOG
METALS

00112627

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7471B

Start Date: 08/16/2010 18:57 End Date: 08/17/2010 02:15

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			20:42																
ZZZZZZ			20:45																
ZZZZZZ			20:47																
CCV 280-27196/46	1		20:49	X															
CCB 280-27196/47	1		20:52	X															
ZZZZZZ			20:54																
ZZZZZZ			20:56																
ZZZZZZ			20:59																
ZZZZZZ			21:01																
ZZZZZZ			21:03																
ZZZZZZ			21:06																
ZZZZZZ			21:08																
ZZZZZZ			21:10																
ZZZZZZ			21:12																
ZZZZZZ			21:15																
CCV 280-27196/58			21:17																
CCB 280-27196/59			21:19																
ZZZZZZ			21:22																
ZZZZZZ			21:24																
ZZZZZZ			21:26																
ZZZZZZ			21:29																
ZZZZZZ			21:31																
ZZZZZZ			21:33																
ZZZZZZ			21:35																
ZZZZZZ			21:38																
ZZZZZZ			21:40																
ZZZZZZ			21:42																
CCV 280-27196/70			21:45																
CCB 280-27196/71			21:47																
ZZZZZZ			21:49																
ZZZZZZ			21:52																
ZZZZZZ			21:54																
ZZZZZZ			21:56																
ZZZZZZ			21:59																
ZZZZZZ			22:01																
ZZZZZZ			22:03																
ZZZZZZ			22:05																
ZZZZZZ			22:08																
ZZZZZZ			22:10																
CCV 280-27196/82			22:12																
CCB 280-27196/83			22:15																
ZZZZZZ			22:17																

13-IN
ANALYSIS RUN LOG
METALS

00112628

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7471B

Start Date: 08/16/2010 18:57 End Date: 08/17/2010 02:15

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			22:19																
ZZZZZZ			22:22																
ZZZZZZ			22:24																
ZZZZZZ			22:26																
ZZZZZZ			22:29																
ZZZZZZ			22:31																
ZZZZZZ			22:33																
ZZZZZZ			22:35																
ZZZZZZ			22:38																
CCV 280-27196/94			22:40																
CCB 280-27196/95			22:42																
ZZZZZZ			22:45																
ZZZZZZ			22:47																
ZZZZZZ			22:49																
ZZZZZZ			22:52																
ZZZZZZ			22:54																
ZZZZZZ			22:56																
ZZZZZZ			22:59																
ZZZZZZ			23:01																
ZZZZZZ			23:03																
ZZZZZZ			23:05																
CCV 280-27196/106			23:08																
CCB 280-27196/107			23:10																
ZZZZZZ			23:12																
ZZZZZZ			23:15																
ZZZZZZ			23:17																
ZZZZZZ			23:19																
ZZZZZZ			23:22																
ZZZZZZ			23:24																
ZZZZZZ			23:26																
ZZZZZZ			23:29																
ZZZZZZ			23:31																
CCV 280-27196/117			23:36																
CCB 280-27196/118			23:38																
ZZZZZZ			23:40																
ZZZZZZ			23:42																
ZZZZZZ			23:45																
ZZZZZZ			23:47																
ZZZZZZ			23:49																
ZZZZZZ			23:52																
ZZZZZZ			23:54																
ZZZZZZ			23:56																

13-IN
ANALYSIS RUN LOG
METALS

00112629

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7471B

Start Date: 08/16/2010 18:57 End Date: 08/17/2010 02:15

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			23:59																
ZZZZZZ			00:01																
CCV 280-27196/129			00:03																
CCB 280-27196/130			00:05																
ZZZZZZ			00:08																
ZZZZZZ			00:10																
ZZZZZZ			00:12																
ZZZZZZ			00:15																
ZZZZZZ			00:17																
ZZZZZZ			00:19																
ZZZZZZ			00:22																
ZZZZZZ			00:24																
ZZZZZZ			00:26																
ZZZZZZ			00:29																
CCV 280-27196/141			00:31																
CCB 280-27196/142			00:33																
ZZZZZZ			00:36																
ZZZZZZ			00:38																
ZZZZZZ			00:40																
ZZZZZZ			00:42																
ZZZZZZ			00:45																
ZZZZZZ			00:47																
ZZZZZZ			00:49																
ZZZZZZ			00:52																
ZZZZZZ			00:54																
ZZZZZZ			00:56																
CCV 280-27196/153			00:59																
CCB 280-27196/154			01:01																
ZZZZZZ			01:03																
ZZZZZZ			01:06																
ZZZZZZ			01:08																
ZZZZZZ			01:10																
ZZZZZZ			01:13																
ZZZZZZ			01:15																
ZZZZZZ			01:17																
ZZZZZZ			01:20																
ZZZZZZ			01:22																
ZZZZZZ			01:24																
CCV 280-27196/165			01:26																
CCB 280-27196/166			01:29																
ZZZZZZ			01:31																
ZZZZZZ			01:33																

13-IN
ANALYSIS RUN LOG
METALS

00112630

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: MT_033 Method: 7471B

Start Date: 08/16/2010 18:57 End Date: 08/17/2010 02:15

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
ZZZZZZ			01:36																		
ZZZZZZ			01:38																		
ZZZZZZ			01:40																		
ZZZZZZ			01:43																		
ZZZZZZ			01:45																		
ZZZZZZ			01:47																		
ZZZZZZ			01:50																		
ZZZZZZ			01:52																		
CCV 280-27196/177			01:54																		
CCB 280-27196/178			01:57																		
ZZZZZZ			01:59																		
ZZZZZZ			02:01																		
ZZZZZZ			02:04																		
ZZZZZZ			02:06																		
ZZZZZZ			02:08																		
ZZZZZZ			02:10																		
CCV 280-27196/185			02:13																		
CCB 280-27196/186			02:15																		

Prep Types

T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1
SDG No.: _____
ICP-MS Instrument ID: MT_024 Analysis Date: 08/17/10
Lab ID: ITUNE 280-27507/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Be-9	9.00	0.60	1.52	
Mg-24	23.95	0.60	1.24	
Co-59	59.00	0.60	1.01	
In-115	115.05	0.60	0.24	
Pb-208	208.00	0.60	1.08	
U-238	238.05	0.60	0.17	

14-IN
ICP-MS TUNE
METALSLab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICP-MS Instrument ID: MT_024 Analysis Date: 08/17/10Lab ID: ITUNE 280-27511/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Be-9	9.00	0.60	1.52	
Mg-24	23.95	0.60	1.24	
Co-59	59.00	0.60	1.01	
In-115	115.05	0.60	0.24	
Pb-208	208.00	0.60	1.08	
U-238	238.05	0.60	0.17	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICP-MS Instrument ID: MT_024 Start Date: 08/17/2010 End Date: 08/18/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-27511/2	23:51	100		100		100		100		100	
IC 280-27511/3	23:54	92		93		92		92		96	
ICV 280-27511/4	23:57	94		95		94		94		97	
ICVL 280-27511/5	00:00	96		98		97		96		98	
ICB 280-27511/7	00:05	97		98		99		98		100	
CRI 280-27511/8	00:08	98		99		100		98		100	
ICSA 280-27511/10	00:13	83		73		73		73		81	
ICSAB 280-27511/11	00:16	76		66		68		70		76	
CCV 280-27511/15	00:27	87		87		87		89		94	
CCB 280-27511/16	00:30	90		91		91		92		96	
CCVL 280-27511/17	00:32	91		92		92		94		96	
CCV 280-27511/75	03:13	75		80		80		82		87	
CCB 280-27511/76	03:16	79		84		84		86		88	
CCVL 280-27511/77	03:19	80		85		85		87		90	
MB 280-26825/1-A	03:22	80		85		85		87		90	
LCS 280-26825/2-A	03:24	80		86		85		87		90	
LCSD 280-26825/3-A	03:27	81		85		85		88		90	
280-6075-1	03:30	78		84		83		85		89	
280-6075-2	03:33	77		82		81		84		87	
280-6075-3	03:36	76		82		81		84		88	
280-6075-4	03:38	76		83		80		83		88	
280-6075-8	03:41	76		80		81		82		88	
CCV 280-27511/86	03:44	75		79		79		82		87	
CCB 280-27511/87	03:47	77		82		83		85		88	
CCVL 280-27511/88	03:49	78		83		84		86		88	
CCV 280-27511/96	04:12	70		78		78		80		84	
CCB 280-27511/97	04:14	73		80		81		83		86	
CCVL 280-27511/98	04:17	74		81		82		84		87	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

ICP-MS Instrument ID: MT_024 Start Date: 08/17/2010 End Date: 08/18/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-27507/3	23:54	92		93		92		92		96	
ICV 280-27507/4	23:57	94		95		94		94		97	
ICVL 280-27507/5	00:00	96		98		97		96		98	
ICB 280-27507/7	00:05	97		98		99		98		100	
CRI 280-27507/8	00:08	98		99		100		98		100	
ICSA 280-27507/10	00:13	83		73		73		73		81	
ICSAB 280-27507/11	00:16	76		66		68		70		76	
CCV 280-27507/15	00:27	87		87		87		89		94	
CCB 280-27507/16	00:30	90		91		91		92		96	
CCVL 280-27507/17	00:32	91		92		92		94		96	
IC 280-27507/154	06:52	100		100		100		100		100	
IC 280-27507/155	06:55	95		94		93		92		98	
CCV 280-27507/156	06:58	95		94		93		95		97	
CCB 280-27507/157	07:01	99		98		97		98		99	
CCVL 280-27507/158	07:03	99		98		98		98		99	
MB 280-26838/1-A	07:06	98		98		96		97		99	
LCS 280-26838/2-A	07:09	97		98		96		97		98	
LCSD 280-26838/3-A	07:12	96		96		95		97		98	
280-6075-5	07:14	101		100		98		98		99	
280-6075-6	07:17	100		99		97		98		99	
280-6075-7	07:20	102		102		100		100		101	
CCV 280-27507/167	07:28	98		93		92		94		98	
CCB 280-27507/168	07:31	98		95		94		96		98	
CCVL 280-27507/169	07:34	99		96		95		96		100	
CCV 280-27507/177	07:56	92		89		88		90		95	
CCB 280-27507/178	07:59	90		89		88		90		94	
CCVL 280-27507/179	08:02	90		89		87		90		93	
CCV 280-27507/186	08:21	82		80		78		78		86	
CCB 280-27507/187	08:24	81		80		79		79		84	
CCVL 280-27507/188	08:27	80		79		77		79		85	

Metals Worksheet

Batch Number: 280-26617

Method: 7470A

Analyst: Stoltz, Katie

Date Open: Aug 12 2010 8:00PM

Batch End: Aug 12 2010 10:00PM

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Hg Daily Spk_00127
MB~280-26617/1		7470A, 7470A		<2	10 mL	10 mL	
LCS~280-26617/2		7470A, 7470A		<2	10 mL	10 mL	0.5 mL
LCSD~280-26617/3		7470A, 7470A		<2	10 mL	10 mL	0.5 mL
280-6075-A-5	NE SUMP-	7470A, 7470A	T	<2	10 mL	10 mL	
280-6075-A-6	SW SUMP-	7470A, 7470A	T	<2	10 mL	10 mL	
280-6075-A-6~MS	SW SUMP-	7470A, 7470A	T	<2	10 mL	10 mL	0.5 mL
280-6075-A-6~MSD	SW SUMP-	7470A, 7470A	T	<2	10 mL	10 mL	0.5 mL
280-6075-A-7	RINSATE	7470A, 7470A	T	<2	10 mL	10 mL	

Oven, Bath or Block Temperature 1: 93 Celsius
 Oven, Bath or Block Temperature 2: 93 Celsius
 Digestion Tube/Cup Lot #: NA
 Hood ID or number: HOOD-4
 Hot Block ID number: NA
 ID number of the thermometer: 4205
 Temperature: NA
 Lot # of Nitric Acid: J26023
 Lot # of hydrochloric acid: J18041
 Sulfuric Acid Lot Number: H46F04
 Potassium Permanganate Lot Number: H49619
 Potassium Persulfate Lot Number: 085907
 Hydroxylamine Sulfate Lot Number: NA
 Stannous Chloride Lot Number: J14618
 Hydroxylamine Hydrochloride Lot: ZN3014
 NaCL Lot #: J156
 Repipettor Volume Check: YES
 SOP Number: DVMT0015

Metals Worksheet

Batch Number: 280-26825

Method: 3050B

Analyst: Niman, Katie M

Date Open: Aug 17 2010 7:00AM

Batch End: Aug 17 2010 12:00PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	MS CALSTD-1_00016	MS CALSTD-2_00017
MB~280-26825/1		3050B, 6020A		1 g	100 mL		
LCS~280-26825/2		3050B, 6020A		1 g	100 mL	1 mL	1 mL
LCSD~280-26825/3		3050B, 6020A		1 g	100 mL	1 mL	1 mL
280-6075-A-1	SS1-	3050B, 6020A	T	1.13 g	100 mL		
280-6075-A-2	SS2-	3050B, 6020A	T	1.14 g	100 mL		
280-6075-A-3	SS3-	3050B, 6020A	T	1.01 g	100 mL		
280-6075-A-4	SS4-	3050B, 6020A	T	1.04 g	100 mL		
280-6075-A-8	SS1-DUP-	3050B, 6020A	T	1.02 g	100 mL		
280-5988-A-3			T	1.03 g	100 mL		
280-5988-A-3~MS			T	1.08 g	100 mL	1 mL	1 mL
280-5988-A-3~MSD			T	1.13 g	100 mL	1 mL	1 mL
280-5988-A-4			T	1.15 g	100 mL		
280-5988-A-5			T	1.05 g	100 mL		

Digestion Tube/Cup Lot #: 1005282
 Balance ID: M28318
 Hood ID or number: 09
 Hot Block ID number: 02
 Lot # of hydrochloric acid: J18041
 Lot # of Nitric Acid: J26023
 Hydrogen peroxide lot number: H47J00
 ID number of the thermometer: 908001593
 Temperature: 92 Degrees C
 Pipette ID: MET-007
 Analyst: KMN
 Oven, Bath or Block Temperature 1: 92 Degrees C
 Oven, Bath or Block Temperature 2: 95 Degrees C

Metals Worksheet

Batch Number: 280-26838

Method: 3020A

Analyst: Willms, Jay

Date Open: Aug 16 2010 12:00PM

Batch End: Aug 16 2010 5:00PM

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	MS CALSTD-1_00016	MS CALSTD-2_00017
MB~280-26838/1		3020A, 6020A		<2	50 mL	50 mL		
LCS~280-26838/2		3020A, 6020A		<2	50 mL	50 mL	0.1 mL	0.1 mL
LCSD~280-26838/3		3020A, 6020A		<2	50 mL	50 mL	0.1 mL	0.1 mL
280-6075-D-5	NE SUMP-	3020A, 6020A	T	<2	50 mL	50 mL		
280-6075-E-6	SW SUMP-	3020A, 6020A	T	<2	50 mL	50 mL		
280-6075-D-7	RINSATE	3020A, 6020A	T	<2	50 mL	50 mL		
280-5988-H-1			T	<2	50 mL	50 mL		
280-5988-H-2			T	<2	50 mL	50 mL		
280-6033-I-3			T	<2	50 mL	50 mL		
280-6033-I-4			T	<2	50 mL	50 mL		
280-6033-I-5			T	<2	50 mL	50 mL		
280-6033-I-6			T	<2	50 mL	50 mL		
280-6033-I-7			T	<2	50 mL	50 mL		
280-6033-I-8			T	<2	50 mL	50 mL		
280-6033-I-8~MS			T	<2	50 mL	50 mL	0.1 mL	0.1 mL
280-6033-I-8~MSD			T	<2	50 mL	50 mL	0.1 mL	0.1 mL
280-6033-I-9			T	<2	50 mL	50 mL		
280-6135-I-22			T	<2	50 mL	50 mL		
280-6135-I-23			T	<2	50 mL	50 mL		

Digestion Tube/Cup Lot #: 1001171
 Hot Block ID number: 05
 ID number of the thermometer: 0908002329
 Oven, Bath or Block Temperature 1: 95 Degrees C
 Oven, Bath or Block Temperature 2: 95 Degrees C
 Vendor of Reagent used: JTBAKER
 Lot # of Nitric Acid: J26023
 Pipette ID: M28318

Metals Worksheet

Batch Number: 280-26890

Method: 7471B

Analyst: Stoltz, Katie

Date Open: Aug 16 2010 4:30PM

Batch End: Aug 16 2010 6:00PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	Hg Daily Spk_00128
MB~280-26890/1		7471B, 7471B		0.63 g	50 mL	
LCS~280-26890/2		7471B, 7471B		0.61 g	50 mL	2.5 mL
280-6075-A-1	SS1-	7471B, 7471B	T	0.64 g	50 mL	
280-6075-A-2	SS2-	7471B, 7471B	T	0.64 g	50 mL	
280-6075-A-3	SS3-	7471B, 7471B	T	0.62 g	50 mL	
280-6075-A-3~MS	SS3-	7471B, 7471B	T	0.65 g	50 mL	2.5 mL
280-6075-A-3~MSD	SS3-	7471B, 7471B	T	0.60 g	50 mL	2.5 mL
280-6075-A-4	SS4-	7471B, 7471B	T	0.60 g	50 mL	
280-6075-A-8	SS1-DUP-	7471B, 7471B	T	0.62 g	50 mL	

Acid used for pH adjustment: NA
 Nominal Amount Used: NA g
 SOP Number: DVMT0016
 Digestion Tube/Cup Lot #: NA
 Hot Block ID number: NA
 Hood ID or number: HOOD-3
 Balance ID: 24750837
 Blank Soil Lot Number: NA
 Lot # of Nitric Acid: J26023
 ID number of the thermometer: 96-206
 Lot # of hydrochloric acid: J18041
 Potassium Permanganate Lot Number: H49619
 Sulfuric Acid Lot Number: H46F04
 Hydroxylamine Sulfate Lot Number: NA
 Potassium Persulfate Lot Number: 085907
 Stannous Chloride Lot Number: J14618
 Oven, Bath or Block Temperature 1: 92 Celsius
 Oven, Bath or Block Temperature 2: 92 Celsius
 NaCL Lot #: J15603
 Repipettor Volume Check: YES
 Aqua Regia Lot Number: NA
 Hydroxylamine Hydrochloride Lot: ZN3014

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRYLab Name: TestAmerica Denver Job Number: 280-6075-1

SDG No.: _____

Project: Longhorn Army Ammunition Plant, Karnack,

Client Sample ID

SS1-SS2-SS3-SS4-SS1-DUP-

Lab Sample ID

280-6075-1280-6075-2280-6075-3280-6075-4280-6075-8

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-6075-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Analysis Method: Moisture LOQ Date: 11/01/2009 00:00
Prep Method: _____
Leach Method: _____

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	

Start Date: 08/07/2010 11:20 End Date: 08/07/2010 11:20

[illegible]

Lab Name: TestAmerica Denver Job No.: 280-6075-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 08/07/2010 11:20 End Date: 08/07/2010 11:20

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M o i s t																	
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		
ZZZZZZ			11:20																		

Prep Types

T = Total/NA

General Chemistry Worksheet

Batch Number: 280-25935

Date Open: Aug 07 2010 11:20AM

Method: Moisture

Batch End:

Analyst: Lambert, Sarah

Lab ID	Client ID	Method Chain	Basis	Dish ID	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
280-6075-B-1	SS1-	Moisture	T	1	1.32 g	15.73 g	13.78 g
280-6075-A-2	SS2-	Moisture	T	2	1.32 g	15.85 g	14.88 g
280-6075-C-3	SS3-	Moisture	T	3	1.28 g	16.89 g	15.00 g
280-6075-A-4	SS4-	Moisture	T	4	1.29 g	16.83 g	15.60 g
280-6075-D-8	SS1-DUP-	Moisture	T	5	1.35 g	16.13 g	15.33 g
280-6076-A-1			T	6	1.30 g	16.81 g	14.31 g
280-6114-A-1			T	7	1.32 g	16.52 g	13.63 g
280-6114-A-2			T	8	1.32 g	16.62 g	14.06 g
280-6114-A-3			T	9	1.31 g	16.77 g	13.19 g
280-6114-A-4			T	10	1.30 g	16.55 g	13.10 g
280-6114-A-5			T	11	1.34 g	16.00 g	13.28 g
280-6033-D-1			T	12	1.32 g	16.71 g	16.45 g
280-6033-D-1~DU			T	13	1.30 g	16.73 g	16.45 g
280-6033-C-2			T	14	1.33 g	16.93 g	14.58 g
280-6033-B-12			T	15	1.33 g	16.45 g	12.73 g
280-6033-A-13			T	16	1.33 g	16.06 g	14.20 g
280-6063-A-18				17	1.28 g	16.20 g	13.18 g
280-6063-A-18~DU				18	1.29 g	16.52 g	13.22 g
280-6090-A-2			T	19	1.33 g	16.10 g	15.48 g
280-6090-A-3			T	20	1.31 g	16.38 g	15.87 g
280-6090-A-4			T	21	1.32 g	16.63 g	15.85 g
280-6090-A-5			T	22	1.32 g	16.06 g	15.46 g
280-6108-A-1			T	23	1.29 g	16.22 g	16.17 g
280-6108-A-1~DU			T	24	1.32 g	16.11 g	16.03 g
280-6108-A-2			T	25	1.30 g	16.80 g	16.79 g

General Chemistry Worksheet

Batch Number: 280-25935

Method: Moisture

Analyst: Lambert, Sarah

Date Open: Aug 07 2010 11:20AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Dish ID	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
280-6108-A-3			T	26	1.29 g	16.37 g	16.33 g
280-6108-A-4			T	27	1.34 g	16.11 g	16.08 g
280-6108-B-5			T	28	1.33 g	16.39 g	16.37 g
280-6108-B-6			T	29	1.32 g	16.14 g	16.08 g
280-6108-B-7			T	30	1.31 g	16.91 g	16.82 g
280-6108-A-8			T	31	1.33 g	16.46 g	16.46 g
280-6108-B-9			T	32	1.32 g	16.98 g	16.97 g
280-6108-A-10			T	33	1.36 g	16.60 g	16.59 g
280-6108-A-11			T	34	1.34 g	16.34 g	16.29 g
280-6108-A-12			T	35	1.33 g	16.72 g	16.70 g
280-6108-A-13			T	36	1.33 g	16.50 g	16.47 g
280-6082-A-1			T	37	1.34 g	16.67 g	13.33 g
280-6082-A-2			T	38	1.34 g	16.24 g	12.03 g
280-6082-A-3			T	39	1.32 g	15.96 g	12.45 g
280-6082-A-4			T	40	1.30 g	16.66 g	12.63 g
280-6082-A-5			T	41	1.32 g	16.68 g	13.31 g
280-6082-A-6			T	42	1.31 g	16.39 g	12.81 g

Balance ID: H31422 No Unit
 Date samples were place in the oven: 8/7/10
 Time samples were place in the oven: 12:13
 Oven Temp when samples are put in oven: 99 Degrees C
 Date samples were removed from oven: 8/8/10
 Time Samples were removed from oven: 13:00
 Oven Temp when samples removed from oven: 103 Degrees C
 Oven ID: D
 ID number of the thermometer: moisture oven

Shipping and Receiving Documents

Denver
4955 Yarrow Street

Arvada, CO 80002
phone 303.736.0100 fax 303.431.7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Mr. Aaron Williams		Site Contact: Mr. Tyler Jones		Date: 05082010		COC No:	
US Army Corps of Engineers - Tulsa District		Tel/Fax: (918) 669-4915		Lab Contact: Brett VanDelinder		Carrier: FedEx		1 of 1 COCs	
1645 South 101st East Avenue		Analysis Turnaround Time		Filtered Sample SW 6020 / 7471 A RCRA Metals SW 8260 B Volatile Organic Compounds SW 8270 C Semi Volatile Compounds SW 846 Method 6860 Perchlorate SW 8330 B Explosives				Job No.	
Tulsa, Oklahoma, 74128		SDG No.							
Phone: (918) 669-4915									
Fax: (918) 669-4302									
Project Name: Longhorn Army Ammunition Plant, Karnack, TX									
Site: LHAAP-65		Calendar (C) or Work Days (W)							
P O #		TAT if different from Below							
		☒ 2 weeks							
		☐ 1 week							
		☐ 2 days							
		☐ 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.			Sample Specific Notes:
SS1-	050820	0945	CS	SOIL	7		X	X	VOC samples collected in
SS2-		1010	CS	SOIL	7		X	X	accordance with EPA
SS3-		1030	CS	SOIL	7		X	X	Method 5030/5035
SS4-		1045	CS	SOIL	7		X	X	
NE Sump-Res-			CS	SEDIMENT	7		X	X	Not Collected
SW Sump-Res-			CS	SEDIMENT	7		X	X	
NE Sump-		0800	CS	WATER	9		X	X	
SW Sump-		0830	CS	WATER	9		X	X	
Rinsate		1145	QC	WATER	9		X	X	Equipment Blank
SS1-Dup-	✓	1130	QC	Soil	7		X	X	
Trip Blank		Lab	oratory	Pre	pared	2			HOLD Trip Blanks
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐							☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		
Special Instructions/QC Requirements & Comments:									
Detections limits should not exceed TCEQ reporting levels									
Email draft results to Aaron.K.Williams@usace.army.mil									
Relinquished by: Tyler Jones		Company: US Army Corps of Engineers - Tulsa District		Date/Time: 05082010 / 1800		Received by: Delivery Service		Company: FEDEX Marshall, Date/Time: 05082010 / 1800	
Relinquished by:		Company: FEDEX		Date/Time:		Received by:		Company: Date/Time: 8.6.10 1000	
Relinquished by:		Company:		Date/Time:		Received by:		Company: Date/Time:	

00112647

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4955 Yarrow Street

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303 736 0156
Gileen Walker 4.1

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Mr. Aaron Williams		Site Contact: Mr. Tyler Jones		Date: 05082010		COC No:	
US Army Corps of Engineers - Tulsa District		Tel/Fax: (918) 669-4915		Lab Contact: Brett VanDelinder		Carrier: FedEx		1 of 1 COCs	
1645 South 101st East Avenue		Analysis Turnaround Time		Filtered Sample SW 6020 / 7471 A RCRA Metals SW 8260 B Volatile Organic Compounds SW 8270 C Semi Volative Compounds SW 846 Method 6860 Percblorate SW 8330 B Explosives				Job No.	
Tulsa, Oklahoma, 74128		SDG No.							
Phone: (918) 669-4915									
Fax: (918) 669-4302									
Project Name: Longhorn Army Ammunition Plant, Karnack, TX									
Site: LHAAP-65		Calendar (C) or Work Days (W) _____							
P O # _____		TAT if different from Below _____							
		☒ 2 weeks							
		☐ 1 week							
		☐ 2 days							
		☐ 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.			Sample Specific Notes:
SS1-	05082010	0945	CS	SOIL	7		X	X	VOC samples collected in
SS2-		1010	CS	SOIL	7		X	X	accordance with EPA
SS3-		1030	CS	SOIL	7		X	X	Method 5030/E 335
SS4-		1045	CS	SOIL	7		X	X	
NE Sump-Res-			CS	SEDIMENT	7		X	X	Not Collected
SW Sump-Res-			CS	SEDIMENT	7		X	X	
NE Sump-		0800	CS	WATER	9		X	X	
SW Sump-		0830	CS	WATER	9		X	X	
Rinsate		1145	QC	WATER	9		X	X	Equipment Blank
SS1-Dup-		1130	QC	Soil	7		X	X	
Trip Blank		Lab	oratory	Pre	pared	2			HOLD Trip Blanks
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐							☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		
Special Instructions/QC Requirements & Comments:									
Detections limits should not exceed TCEQ reporting levels									
Email draft results to Aaron.K.Williams@usace.army.mil									
Relinquished by: Tyler Jones		Company: US Army Corps of Engineers - Tulsa District		Date/Time: 5 Aug, 2010 / 0508/1800		Received by: Delivery Service		Company: FEDEX Marshall, Date/Time: 5 AUG 2010 / 1800	
Relinquished by:		Company: FEDEX		Date/Time:		Received by:		Company: Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company: Date/Time:	

00112648

Login Sample Receipt Check List

Client: U.S. Army Corps of Engineers

Job Number: 280-6075-1

Login Number: 6075

List Source: TestAmerica Denver

Creator: Harrington, Nicholas

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	SEE CUR
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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX 3

**UPDATED EXAMPLES OF STANDARD NO. 2, APPENDIX II MEDIUM-SPECIFIC
CONCENTRATIONS (MSCS)**

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Background Information:							
Section 335.558(d) of the existing Risk Reduction Rules indicates that the Commission will periodically revise the example unadjusted Standard No. 2 MSCs presented in the Appendix II table to reflect newly promulgated standards and to provide MSCs based on current toxicological data. Additionally, §335.556(b) requires consideration of other exposure pathways by which human populations are likely to be exposed (e.g., dermal absorption and vegetable uptake) when setting MSCs.							
However, because no specific equations or parameters were provided in the rule, consideration of the dermal absorption pathway has not been addressed in a consistent manner. Therefore, in order to facilitate implementation of Standard No. 2, the MSC values have been updated to reflect current standards (e.g., MCLs), toxicological factors, the soil dermal absorption exposure pathway where appropriate (see Section VII of the memo entitled Implementation of the Existing Risk Reduction Rule for more detail), and to identify contaminants where exposure through vegetable consumption is of particular concern (i.e., cadmium). The updated Standard No. 2 MSCs are provided below for your convenience.							
The updated Standard No. 2 Soil MSCs have been calculated using the Risk Reduction Standard No. 2 equations, with the addition of the dermal pathway, updated toxicity factors, and updated chemical/physical properties. In calculating the updated Standard No. 2 Soil MSCs, a risk level of 10-6 was used for Class A and B carcinogens and a risk level of 10-5 was used for Class C carcinogens, and a hazard quotient of 1 was used for all noncarcinogens. In cases where contaminants had both carcinogenic and noncarcinogenic toxicity factors, both types of MSCs (carcinogenic and noncarcinogenic) were calculated and the lowest value (i.e., most conservative) was selected as the updated Standard No. 2 Soil MSC.							
The updated Standard No. 2 Groundwater MSCs have been calculated using the MCL (when available) or Risk Reduction Standard No. 2 equations with updated toxicity factors when MCLs were not available. In calculating the updated Standard No. 2 Groundwater MSCs, a risk level of 10-6 was used for Class A and B carcinogens and a risk level of 10-5 was used for Class C carcinogens, and a hazard quotient of 1 was used for all noncarcinogens. In cases where contaminants had both carcinogenic and noncarcinogenic toxicity factors, both types of MSCs (carcinogenic and noncarcinogenic) were calculated and the lowest value (i.e., most conservative) was selected as the updated Standard No. 2 Groundwater MSC.							
Abbreviations:							
CAS# - Chemical Abstracts Service number GW-Res - Groundwater MSC for Residential Use							
GW-Ind - Groundwater MSC for Industrial Use GWP-Res - Soil MSC for Residential Use Based on Groundwater Protection							
GWP-Ind - Soil MSC for Industrial Use Based on Groundwater Protection							
SAI-Res - Soil MSC for Residential Use Based on Inhalation, Ingestion, and Dermal Contact							
SAI-Ind - Soil MSC for Industrial Use Based on Inhalation, Ingestion, and Dermal Contact							

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Acenaphthylene	208-96-8	2.2E+00	6.1E+00	2.2E+02	6.1E+02	8.2E+03	5.3E+04
Acetaldehyde	75-07-0	3.7E+00	1.0E+01	3.7E+02	1.0E+03	5.2E+00	8.8E+00
Acetate, 2-ethoxyethanol	111-15-9	6.2E-01	1.7E+00	6.2E+01	1.7E+02	4.7E+03	3.5E+04
Acetate, isoamyl	123-92-2	2.6E+00	7.4E+00	2.6E+02	7.4E+02	3.2E+03	5.1E+03
Acetate, isobutyl	110-19-0	1.8E+00	4.9E+00	1.8E+02	4.9E+02	3.1E+03	5.3E+03
Acetate, sec-butyl	105-46-4	1.8E+00	4.9E+00	1.8E+02	4.9E+02	1.3E+04	9.8E+04
Acetic acid*	64-19-7	---	---	---	---	---	---
Acetone (2-propanone)	67-64-1	3.3E+01	9.2E+01	3.3E+03	9.2E+03	1.7E+03	2.5E+03
Acetone cyanohydrin	75-86-5	2.9E-02	8.2E-02	2.9E+00	8.2E+00	1.2E+02	8.2E+02
Acetonitrile	75-05-8	1.2E+00	3.3E+00	1.2E+02	3.3E+02	1.8E+02	2.6E+02
Acetophenone	98-86-2	3.7E+00	1.0E+01	3.7E+02	1.0E+03	2.7E+03	4.3E+03
Acetylaminofluorene, 2-	53-96-3	2.2E-04	7.5E-04	2.2E-02	7.5E-02	1.3E+00	7.5E+00
Acifluorfen, sodium	62476-59-9	4.7E-01	1.3E+00	4.7E+01	1.3E+02	2.0E+03	1.3E+04
Acridine	260-94-6	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Acrolein	107-02-8	1.8E-02	5.1E-02	1.8E+00	5.1E+00	1.4E+02	1.0E+03
Acrylamide	79-06-1	1.9E-05	6.4E-05	1.9E-03	6.4E-03	1.1E-01	6.4E-01

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Acrylic acid (propenoic acid)	79-10-7	1.8E+01	5.1E+01	1.8E+03	5.1E+03	1.4E+05	1.0E+06
Acrylonitrile	107-13-1	1.6E-04	5.3E-04	1.6E-02	5.3E-02	7.9E-02	1.4E-01
Adipic acid (hexanedioic acid)	124-04-9	1.8E+02	5.1E+02	1.8E+04	5.1E+04	7.7E+05	5.1E+06
Alachlor	15972-60-8	2.0E-03	2.0E-03	2.0E-01	2.0E-01	6.1E+00	3.6E+01
Aldicarb	116-06-3	7.0E-03	7.0E-03	7.0E-01	7.0E-01	1.5E+02	1.0E+03
Aldicarb sulfone	1646-88-4	7.0E-03	7.0E-03	7.0E-01	7.0E-01	1.5E+02	1.0E+03
Aldrin	309-00-2	5.0E-06	1.7E-05	5.0E-04	1.7E-03	2.7E-02	1.4E-01
Allyl alcohol	107-18-6	1.8E-01	5.1E-01	1.8E+01	5.1E+01	1.4E+03	1.0E+04
Allyl chloride	107-05-1	3.7E-01	1.0E+00	3.7E+01	1.0E+02	1.3E+00	1.8E+00
Aluminum	7429-90-5	3.7E+01	1.0E+02	3.7E+03	1.0E+04	1.5E+05	1.0E+06
Ametryn	834-12-8	3.3E-01	9.2E-01	3.3E+01	9.2E+01	1.4E+03	9.2E+03
Aminobiphenyl, 4- (1,1-biphenyl-4-amine)	92-67-1	1.4E-05	4.7E-05	1.4E-03	4.7E-03	8.0E-02	4.7E-01
Amino-2,6-dinitrotoluene, 4-	19406-51-0	6.1E-03	1.7E-02	6.1E-01	1.7E+00	2.6E+01	1.7E+02
Amino-4,6-dinitrotoluene, 2-	35572-78-2	6.1E-03	1.7E-02	6.1E-01	1.7E+00	2.6E+01	1.7E+02
Aminopyridine, 4-	504-24-5	7.3E-04	2.0E-03	7.3E-02	2.0E-01	3.1E+00	2.0E+01
Ammonia	7664-41-7	---	---	---	---	1.6E+02	2.3E+02
Ammonium polyphosphate*	68333-79-9	---	---	---	---	---	---
Ammonium salts*	NA	---	---	---	---	---	---
Aniline	62-53-3	1.5E-02	5.0E-02	1.5E+00	5.0E+00	8.6E+01	5.0E+02
Anthracene	120-12-7	1.1E+01	3.1E+01	1.1E+03	3.1E+03	4.1E+04	2.7E+05
Anthraquinone, 9,10-	84-65-1	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Antimony	7440-36-0	6.0E-03	6.0E-03	6.0E-01	6.0E-01	7.2E+01	4.9E+02
Aramite	140-57-8	3.4E-03	1.1E-02	3.4E-01	1.1E+00	2.0E+01	1.1E+02
Arsenic	7440-38-2	1.0E-02	1.0E-02	1.0E+00	1.0E+00	2.0E+01 ^b	2.0E+02 ^b
Arsine	7784-42-1	---	---	---	---	---	---
Asbestos	1332-21-4	---	---	---	---	---	---
Atrazine	1912-24-9	3.0E-03	3.0E-03	3.0E-01	3.0E-01	2.2E+01	1.3E+02
Azinphos-methyl (guthion)	86-50-0	5.5E-02	1.5E-01	5.5E+00	1.5E+01	2.3E+02	1.5E+03
Azobenzene	103-33-3	7.7E-04	2.6E-03	7.7E-02	2.6E-01	4.3E+00	2.3E+01
Barium	7440-39-3	2.0E+00	2.0E+00	2.0E+02	2.0E+02	2.6E+04	1.7E+05
Bayleton	43121-43-3	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Benefin (benfluralin)	1861-40-1	1.1E+01	3.1E+01	1.1E+03	3.1E+03	4.6E+04	3.1E+05
Benomyl	17804-35-2	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Benz-a-anthracene	56-55-3	2.0E-04	3.9E-04	2.0E-02	3.9E-02	6.3E-01	3.4E+00
Benzaldehyde	100-52-7	3.7E+00	1.0E+01	3.7E+02	1.0E+03	3.2E+02	4.5E+02
Benzene	71-43-2	5.0E-03	5.0E-03	5.0E-01	5.0E-01	8.8E-01	1.6E+00
Benzenedicarbonitrile, 1,3-	626-17-5	2.2E-01	6.1E-01	2.2E+01	6.1E+01	9.3E+02	6.1E+03
Benzenethiol	108-98-5	3.7E-04	1.0E-03	3.7E-02	1.0E-01	1.5E+00	3.9E+00
Benzidine	92-87-5	3.7E-07	1.2E-06	3.7E-05	1.2E-04	2.1E-03	1.2E-02
Benzo-a-pyrene	50-32-8	2.0E-04	2.0E-04	2.0E-02	2.0E-02	6.3E-02	3.4E-01
Benzo-b-fluoranthene	205-99-2	2.0E-04	3.9E-04	2.0E-02	3.9E-02	6.3E-01	3.4E+00
Benzo-j-fluoranthene	205-82-3	1.2E-03	3.9E-03	1.2E-01	3.9E-01	6.2E+00	3.4E+01
Benzo-e-pyrene	192-97-2	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.1E+03	2.7E+04
Benzo-g,h,i-perylene	191-24-2	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.1E+03	2.7E+04
Benzoic acid	65-85-0	1.5E+02	4.1E+02	1.5E+04	4.1E+04	6.2E+05	4.1E+06
Benzo-k-fluoranthene	207-08-9	1.2E-03	3.9E-03	1.2E-01	3.9E-01	6.3E+00	3.4E+01
Benzophenone	119-61-9	2.4E-01	6.8E-01	2.4E+01	6.8E+01	1.0E+03	6.8E+03
Benzotrichloride	98-07-7	6.6E-06	2.2E-05	6.6E-04	2.2E-03	3.8E-02	2.2E-01
Benzoyl peroxide	94-36-0	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Benzyl alcohol	100-51-6	1.1E+01	3.1E+01	1.1E+03	3.1E+03	4.6E+04	3.1E+05
Benzyl chloride	100-44-7	5.0E-04	1.7E-03	5.0E-02	1.7E-01	3.8E+00	3.4E+01
Benzyl dichloride	98-87-3	5.0E-04	1.7E-03	5.0E-02	1.7E-01	2.9E+00	1.7E+01

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Beryllium	7440-41-7	4.0E-03	4.0E-03	4.0E-01	4.0E-01	4.6E+01	2.7E+02
Biphenyl, 1,1-	92-52-4	1.8E+00	5.1E+00	1.8E+02	5.1E+02	1.9E+02	2.7E+02
Biquinoline, 2,2'-	119-91-5	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Bis (2-chloroethoxy) methane	111-91-1	7.7E-05	2.6E-04	7.7E-03	2.6E-02	2.9E-01	9.0E-01
Bis (2-chloroethyl) ether	111-44-4	7.7E-05	2.6E-04	7.7E-03	2.6E-02	1.5E-01	3.2E-01
Bis (2-chloroisopropyl) ether	108-60-1	1.2E-02	4.1E-02	1.2E+00	4.1E+00	4.8E+01	1.5E+02
Bis (2-chloromethyl) ether	542-88-1	3.9E-07	1.3E-06	3.9E-05	1.3E-04	1.1E-04	1.9E-04
Bis (2-ethyl-hexyl) phthalate	117-81-7	6.0E-03	6.0E-03	6.0E-01	6.0E-01	1.7E+01	6.5E+01
Bismuth	7440-69-9	1.8E+01	5.1E+01	1.8E+03	5.1E+03	9.9E+04	6.8E+05
Bisphenol A	80-05-7	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Boron	7440-42-8	7.3E+00	2.0E+01	7.3E+02	2.0E+03	5.1E+04	3.7E+05
Bromacil	314-40-9	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Bromobenzene	108-86-1	7.3E-01	2.0E+00	7.3E+01	2.0E+02	1.1E+02	1.6E+02
Bromo-2-chloroethane, 1-	107-04-0	1.5E+00	4.1E+00	1.5E+02	4.1E+02	3.0E+02	4.3E+02
Bromodichloromethane ^c	75-27-4	1.4E-03	4.6E-03	1.4E-01	4.6E-01	1.0E+01	9.2E+01
Bromoform ^c	75-25-2	1.1E-02	3.6E-02	1.1E+00	3.6E+00	3.4E+01	8.5E+01
Bromomethane (methyl bromide)	74-83-9	5.1E-02	1.4E-01	5.1E+00	1.4E+01	3.5E+00	4.9E+00
Bromophenyl phenylether, 4-	101-55-3	5.7E-05	1.9E-04	5.7E-03	1.9E-02	3.1E-01	1.6E+00
Butadiene, 1,3-	106-99-0	---	---	---	---	6.6E-02	1.1E-01
Butadiene, 2-methyl-1,3- (isoprene)	78-79-5	2.2E+00	6.1E+00	2.2E+02	6.1E+02	9.7E+03	2.6E+04
Butanal (butyraldehyde)	123-72-8	2.2E+00	6.1E+00	2.2E+02	6.1E+02	3.7E+03	6.4E+03
Butane, 2,3-dimethyl-	79-29-8	2.2E+00	6.1E+00	2.2E+02	6.1E+02	8.1E+03	1.9E+04
Butanoic acid (butyric acid)	107-92-6	1.8E+01	5.1E+01	1.8E+03	5.1E+03	7.7E+04	5.1E+05
Butanol, 2-	78-92-2	3.7E+00	1.0E+01	3.7E+02	1.0E+03	4.9E+03	7.9E+03
Butanol, 2-methyl-2-	75-85-4	3.7E-01	1.0E+00	3.7E+01	1.0E+02	2.3E+03	1.1E+04
Butanol, n-	71-36-3	3.7E+00	1.0E+01	3.7E+02	1.0E+03	2.7E+04	2.0E+05
Butene, 1-	106-98-9	2.2E+00	6.1E+00	2.2E+02	6.1E+02	5.3E+03	1.0E+04
Butene, cis-2-	590-18-1	2.2E+00	6.1E+00	2.2E+02	6.1E+02	5.8E+03	1.1E+04
Butene, trans-2-	624-64-6	2.2E+00	6.1E+00	2.2E+02	6.1E+02	5.8E+03	1.1E+04
Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE)	111-76-2	1.8E+01	5.1E+01	1.8E+03	5.1E+03	7.7E+04	5.1E+05
Butyl acetate	123-86-4	5.1E+00	1.4E+01	5.1E+02	1.4E+03	7.4E+02	1.0E+03
Butyl acrylate	141-32-2	3.3E-01	9.2E-01	3.3E+01	9.2E+01	8.6E+01	1.2E+02
Butyl benzyl phthalate	85-68-7	7.3E+00	2.0E+01	7.3E+02	2.0E+03	3.1E+04	2.0E+05
Butylate	2008-41-5	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Butylbenzene, n-	104-51-8	1.5E+00	4.1E+00	1.5E+02	4.1E+02	2.7E+03	5.7E+03
Butylbenzene, sec-	135-98-8	1.5E+00	4.1E+00	1.5E+02	4.1E+02	3.0E+03	5.4E+03
Butylbenzene, tert-	98-06-6	1.5E+00	4.1E+00	1.5E+02	4.1E+02	2.6E+03	4.5E+03
Butyl ether, n- (dibutyl ether)	142-96-1	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+03	2.3E+03
Cacodylic acid	75-60-5	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Cadmium	7440-43-9	5.0E-03	5.0E-03	5.0E-01	5.0E-01	2.4E+02 ^d	1.5E+03
Calcium*	7440-70-2	---	---	---	---	---	---
Caprolactam	105-60-2	1.8E+01	5.1E+01	1.8E+03	5.1E+03	7.7E+04	5.1E+05
Captan	133-06-2	2.4E-02	8.2E-02	2.4E+00	8.2E+00	1.4E+02	8.2E+02
Carbaryl	63-25-2	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Carbazole	86-74-8	4.3E-03	1.4E-02	4.3E-01	1.4E+00	2.4E+01	1.4E+02
Carbofuran	1563-66-2	4.0E-02	4.0E-02	4.0E+00	4.0E+00	7.7E+02	5.1E+03
Carbon disulfide	75-15-0	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.0E+03	1.5E+03
Carbon tetrachloride	56-23-5	5.0E-03	5.0E-03	5.0E-01	5.0E-01	3.5E-01	6.3E-01
Carbophenothion	786-19-6	4.7E-01	1.3E+00	4.7E+01	1.3E+02	2.0E+03	1.3E+04
Carbosulfan	55285-14-8	3.7E-01	1.0E+00	3.7E+01	1.0E+02	1.5E+03	1.0E+04
Carboxin	5234-68-4	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Chloral	75-87-6	3.7E+00	1.0E+01	3.7E+02	1.0E+03	2.7E+04	2.0E+05
Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)	302-17-0	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid)	133-90-4	5.5E-01	1.5E+00	5.5E+01	1.5E+02	2.3E+03	1.5E+04
Chlordane (technical)	12789-03-6	2.0E-03	2.0E-03	2.0E-01	2.0E-01	1.6E+00	1.1E+01
Chlordane, cis- (alpha chlordane)	5103-71-9	2.4E-04	8.2E-04	2.4E-02	8.2E-02	1.4E+00	8.0E+00
Chlordane, gamma	57-74-9	2.4E-04	8.2E-04	2.4E-02	8.2E-02	1.4E+00	7.6E+00
Chlorfenvinphos	470-90-6	2.6E-02	7.2E-02	2.6E+00	7.2E+00	1.1E+02	7.2E+02
Chloride*	16887-00-6	---	---	---	---	---	---
Chlorine	7782-50-5	4.0E+00	4.0E+00	4.0E+02	4.0E+02	2.0E+04	1.4E+05
Chloroaniline, p-	106-47-8	1.5E-01	4.1E-01	1.5E+01	4.1E+01	6.2E+02	4.1E+03
Chlorobenzene	108-90-7	1.0E-01	1.0E-01	1.0E+01	1.0E+01	4.0E+02	5.9E+02
Chlorobenzilate	510-15-6	3.2E-04	1.1E-03	3.2E-02	1.1E-01	1.8E+00	1.1E+01
Chlorobromomethane (bromochloromethane)	74-97-5	1.5E+00	4.1E+00	1.5E+02	4.1E+02	2.4E+02	3.4E+02
Chloro-1,3-butadiene, 2-	126-99-8	---	---	---	---	1.0E+01	1.4E+01
Chlorodifluoromethane	75-45-6	---	---	---	---	1.1E+04	1.5E+04
Chloroethane (ethyl chloride)	75-00-3	1.5E+01	4.1E+01	1.5E+03	4.1E+03	1.1E+04	1.7E+04
Chloroethanol, 2-	107-07-3	1.5E+01	4.1E+01	1.5E+03	4.1E+03	1.1E+05	8.2E+05
Chloroethoxy ethene, 2- (2-chloroethylvinylether)	110-75-8	7.7E-04	2.6E-03	7.7E-02	2.6E-01	2.1E+00	3.0E+00
Chloroform ^c	67-66-3	3.7E-01	1.0E+00	3.7E+01	1.0E+02	3.1E-01	5.1E-01
Chlorohexane, 1-	544-10-5	1.5E+00	4.1E+00	1.5E+02	4.1E+02	4.1E+03	8.4E+03
Chloromethane (methyl chloride)	74-87-3	6.6E-02	2.2E-01	6.6E+00	2.2E+01	2.3E+00	3.8E+00
Chloro-3-methylphenol, 4-	59-50-7	1.8E-01	5.1E-01	1.8E+01	5.1E+01	7.7E+02	5.1E+03
Chloronaphthalene, 1- (Chloronaphthalene, alpha-)	90-13-1	2.9E+00	8.2E+00	2.9E+02	8.2E+02	1.1E+04	7.1E+04
Chloronaphthalene, 2- (chloronaphthalene, beta)	91-58-7	2.9E+00	8.2E+00	2.9E+02	8.2E+02	1.1E+04	7.1E+04
Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)	100-00-5	4.7E-03	1.6E-02	4.7E-01	1.6E+00	2.7E+01	1.6E+02
Chlorophenol, 2-	95-57-8	1.8E-01	5.1E-01	1.8E+01	5.1E+01	1.1E+03	4.0E+03
Chlorophenol, 3-	108-43-0	1.8E-01	5.1E-01	1.8E+01	5.1E+01	7.7E+02	5.1E+03
Chlorophenol, 4-	106-48-9	1.8E-01	5.1E-01	1.8E+01	5.1E+01	7.7E+02	5.1E+03
Chlorophenyl phenylether, 4-	7005-72-3	5.7E-05	1.9E-04	5.7E-03	1.9E-02	2.8E-01	1.2E+00
Chloropropane, 2-	75-29-6	1.1E+00	3.1E+00	1.1E+02	3.1E+02	1.3E+02	1.9E+02
Chloro-2-propanol, 1-	127-00-4	7.3E-01	2.0E+00	7.3E+01	2.0E+02	5.5E+03	4.1E+04
Chlorothalonil	1897-45-6	7.7E-03	2.6E-02	7.7E-01	2.6E+00	4.4E+01	2.6E+02
Chlorotoluene, o- (2-chlorotoluene)	95-49-8	7.3E-01	2.0E+00	7.3E+01	2.0E+02	1.5E+03	3.5E+03
Chlorotoluene, p- (4-chlorotoluene)	106-43-4	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.4E+00	4.8E+00
Chlorpyrifos	2921-88-2	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Chromium (III) (total chromium)	16065-83-1/ 7440-47-3	1.0E-01	1.0E-01	1.0E+01	1.0E+01	5.9E+04	3.5E+05
Chromium (VI)	18540-29-9	1.0E-01	1.0E-01	1.0E+01	1.0E+01	2.0E+02	1.2E+03
Chrysene	218-01-9	1.2E-02	3.9E-02	1.2E+00	3.9E+00	6.3E+01	3.4E+02
Cobalt	7440-48-4	2.2E+00	6.1E+00	2.2E+02	6.1E+02	1.5E+04	1.1E+05
Copolymer acrylamide	69418-26-4	7.3E-03	2.0E-02	7.3E-01	2.0E+00	3.1E+01	2.0E+02
Copper	7440-50-8	1.3E+00	1.3E+00	1.3E+02	1.3E+02	1.0E+04	7.4E+04
Coronene	191-07-1	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Coumaphos	56-72-4	2.6E-01	7.2E-01	2.6E+01	7.2E+01	1.1E+03	7.2E+03
Cresol	1319-77-3	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Cresol, m- (3-methylphenol)	108-39-4	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Cresol, o- (2-methylphenol)	95-48-7	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Cresol, p- (4-methylphenol)	106-44-5	1.8E-01	5.1E-01	1.8E+01	5.1E+01	7.7E+02	5.1E+03
Crotonaldehyde	123-73-9	4.5E-04	1.5E-03	4.5E-02	1.5E-01	3.4E+00	3.0E+01
Cumene (isopropylbenzene)	98-82-8	3.7E+00	1.0E+01	3.7E+02	1.0E+03	5.4E+03	9.0E+03
Cyanazine	21725-46-2	1.0E-03	3.4E-03	1.0E-01	3.4E-01	5.8E+00	3.4E+01
Cyanide	57-12-5	2.0E-01	2.0E-01	2.0E+01	2.0E+01	5.1E+03	3.7E+04

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Cyanogen	460-19-5	1.5E+00	4.1E+00	1.5E+02	4.1E+02	4.3E+00	6.0E+00
Cycloate	1134-23-2	2.0E+00	5.6E+00	2.0E+02	5.6E+02	8.5E+03	5.6E+04
Cyclohexane	110-82-7	1.8E+02	5.1E+02	1.8E+04	5.1E+04	1.2E+04	1.7E+04
Cyclohexanol	108-93-0	1.8E+02	5.1E+02	1.8E+04	5.1E+04	7.7E+05	5.1E+06
Cyclohexanone	108-94-1	1.8E+02	5.1E+02	1.8E+04	5.1E+04	2.1E+03	3.0E+03
Cyclopentane, methyl-	96-37-7	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+03	2.3E+03
Cyclotetramethylenetetranitramine (HMX)	2691-41-0	1.8E+00	5.1E+00	1.8E+02	5.1E+02	2.2E+03	1.3E+04
Cyclotrimethylenetrinitramine (RDX)	121-82-4	7.7E-03	2.6E-02	7.7E-01	2.6E+00	3.6E+01	5.4E+01
Cymene (isopropyltoluene)	99-87-6	3.7E+00	1.0E+01	3.7E+02	1.0E+03	4.2E+03	6.7E+03
Cymoxanil	57966-95-7	4.7E-01	1.3E+00	4.7E+01	1.3E+02	2.0E+03	1.3E+04
Dacthal (DCPA)	1861-32-1	3.7E-01	1.0E+00	3.7E+01	1.0E+02	1.5E+03	1.0E+04
Dalapon, sodium salt (2,2-dichloropropanoic acid)	75-99-0	2.0E-01	2.0E-01	2.0E+01	2.0E+01	4.6E+03	3.1E+04
DDD	72-54-8	3.5E-04	1.2E-03	3.5E-02	1.2E-01	2.4E+00	1.8E+01
DDE	72-55-9	2.5E-04	8.4E-04	2.5E-02	8.4E-02	1.7E+00	1.3E+01
DDT	50-29-3	2.5E-04	8.4E-04	2.5E-02	8.4E-02	1.7E+00	1.2E+01
Demeton	8065-48-3	1.5E-03	4.1E-03	1.5E-01	4.1E-01	6.2E+00	4.1E+01
Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)	123-42-2	1.5E+00	4.1E+00	1.5E+02	4.1E+02	6.2E+03	4.1E+04
Diallate	2303-16-4	1.4E-03	4.7E-03	1.4E-01	4.7E-01	8.0E+00	4.7E+01
Diazinon	333-41-5	3.3E-02	9.2E-02	3.3E+00	9.2E+00	1.4E+02	9.2E+02
Dibenz-a,h-acridine	226-36-8	7.1E-04	2.4E-03	7.1E-02	2.4E-01	4.1E+00	2.4E+01
Dibenz-a,h-anthracene	53-70-3	2.0E-04	2.0E-04	2.0E-02	2.0E-02	6.3E-02	3.4E-01
Dibenz-a,j-acridine	224-42-0	1.2E-03	3.9E-03	1.2E-01	3.9E-01	6.3E+00	3.4E+01
Dibenzo(a,e)pyrene	192-65-4	1.2E-04	3.9E-04	1.2E-02	3.9E-02	6.7E-01	3.9E+00
Dibenzo(a,h)pyrene	189-64-0	1.2E-05	3.9E-05	1.2E-03	3.9E-03	6.7E-02	3.9E-01
Dibenzo(a,i)pyrene	189-55-9	1.2E-05	3.9E-05	1.2E-03	3.9E-03	6.7E-02	3.9E-01
Dibenzofuran	132-64-9	1.5E-01	4.1E-01	1.5E+01	4.1E+01	6.2E+02	4.1E+03
Dibenzothiophene	132-65-0	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Dibromochloromethane (chlorodibromomethane) ^c	124-48-1	1.0E-02	3.4E-02	1.0E+00	3.4E+00	7.6E+01	6.8E+02
Dibromo-3-chloropropane, 1,2-	96-12-8	2.0E-04	2.0E-04	2.0E-02	2.0E-02	3.5E-01	2.0E+00
Dibromofluoromethane	1868-53-7	7.3E+00	2.0E+01	7.3E+02	2.0E+03	1.1E+04	1.9E+04
Dicamba	1918-00-9	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Dichlormid	37764-25-3	9.1E-01	2.6E+00	9.1E+01	2.6E+02	3.9E+03	2.6E+04
Dichlorobenzene, 1,2-	95-50-1	6.0E-01	6.0E-01	6.0E+01	6.0E+01	5.6E+02	8.0E+02
Dichlorobenzene, 1,3-	541-73-1	1.1E+00	3.1E+00	1.1E+02	3.1E+02	5.1E+01	7.1E+01
Dichlorobenzene, 1,4-	106-46-7	7.5E-02	7.5E-02	7.5E+00	7.5E+00	2.7E+02	2.4E+03
Dichlorobenzidine, 3,3-	91-94-1	1.9E-04	6.4E-04	1.9E-02	6.4E-02	1.1E+00	6.4E+00
Dichlorobutane, 2,3-	7581-97-7	3.7E-01	1.0E+00	3.7E+01	1.0E+02	4.3E+01	6.1E+01
Dichloro-2-butene, 1,4-	764-41-0	---	---	---	---	2.3E-02	3.8E-02
Dichloro-2-butene, 1,4- trans	110-57-6	---	---	---	---	2.3E-02	3.9E-02
Dichlorodifluoromethane	75-71-8	7.3E+00	2.0E+01	7.3E+02	2.0E+03	2.2E+03	3.1E+03
Dichloroethane, 1,1-	75-34-3	3.7E+00	1.0E+01	3.7E+02	1.0E+03	8.9E+02	1.3E+03
Dichloroethane, 1,2-	107-06-2	5.0E-03	5.0E-03	5.0E-01	5.0E-01	2.7E-01	4.7E-01
Dichloroethylene, 1,1-	75-35-4	7.0E-03	7.0E-03	7.0E-01	7.0E-01	2.7E+02	3.8E+02
Dichloroethylene, cis-1,2-	156-59-2	7.0E-02	7.0E-02	7.0E+00	7.0E+00	1.2E+03	2.5E+03
Dichloroethylene, trans-1,2	156-60-5	1.0E-01	1.0E-01	1.0E+01	1.0E+01	1.4E+03	2.4E+03
Dichlorofluoromethane	75-43-4	7.3E+00	2.0E+01	7.3E+02	2.0E+03	5.4E+01	7.6E+01
Dichlorophenol, 2,3-	576-24-9	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Dichlorophenol, 2,4-	120-83-2	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Dichlorophenol, 2,5-	583-78-8	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Dichlorophenol, 2,6-	87-65-0	3.7E-02	1.0E-01	3.7E+00	1.0E+01	1.5E+02	1.0E+03
Dichlorophenol, 3,4-	95-77-2	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Dichlorophenol, 3,5-	591-35-5	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	94-75-7	7.0E-02	7.0E-02	7.0E+00	7.0E+00	2.0E+03	1.4E+04
Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)	94-82-6	2.9E-01	8.2E-01	2.9E+01	8.2E+01	1.2E+03	8.2E+03
Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)	120-36-5	3.7E-01	1.0E+00	3.7E+01	1.0E+02	1.5E+03	1.0E+04
Dichloropropane, 1,2-	78-87-5	5.0E-03	5.0E-03	5.0E-01	5.0E-01	9.4E+00	2.5E+01
Dichloropropane, 1,3-	142-28-9	8.5E-03	2.9E-02	8.5E-01	2.9E+00	3.0E+01	8.0E+01
Dichloropropane, 2,2-	594-20-7	1.3E-02	4.2E-02	1.3E+00	4.2E+00	1.7E+01	2.4E+01
Dichloropropanol, 2,3-	616-23-9	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Dichloropropene, 1,1-	563-58-6	8.5E-04	2.9E-03	8.5E-02	2.9E-01	9.9E-01	1.9E+00
Dichloropropene, 1,3- (mixed isomers)	542-75-6	8.5E-04	2.9E-03	8.5E-02	2.9E-01	1.9E+00	4.2E+00
Dichloropropene, cis 1,3-	10061-01-5	1.6E-03	5.3E-03	1.6E-01	5.3E-01	1.2E+01	3.4E+01
Dichloropropene, trans 1,3-	10061-02-6	8.5E-03	2.9E-02	8.5E-01	2.9E+00	1.8E+01	4.0E+01
Dichlorvos	62-73-7	2.9E-04	9.9E-04	2.9E-02	9.9E-02	1.7E+00	9.9E+00
Dicrotophos (bidrin)	141-66-2	3.7E-03	1.0E-02	3.7E-01	1.0E+00	1.5E+01	1.0E+02
Dicyclopentadiene	77-73-6	1.1E+00	3.1E+00	1.1E+02	3.1E+02	8.2E+03	6.1E+04
Dieldrin	60-57-1	5.3E-06	1.8E-05	5.3E-04	1.8E-03	3.1E-02	1.8E-01
Diethanolamine	111-42-2	1.8E-02	5.1E-02	1.8E+00	5.1E+00	7.7E+01	5.1E+02
Diethyl phthalate	84-66-2	2.9E+01	8.2E+01	2.9E+03	8.2E+03	1.2E+05	8.2E+05
Diethylene glycol	111-46-6	7.3E+01	2.0E+02	7.3E+03	2.0E+04	3.1E+05	2.0E+06
Diethylene glycol monobutyl ether	112-34-5	3.3E+00	9.2E+00	3.3E+02	9.2E+02	1.4E+04	9.2E+04
Diethylhexyl adipate	103-23-1	4.0E-01	4.0E-01	4.0E+01	4.0E+01	4.1E+03	2.4E+04
Diethylstilbestrol	56-53-1	1.8E-08	6.1E-08	1.8E-06	6.1E-06	1.0E-04	6.1E-04
Diisobutylene (trimethyl-1-pentene, 2,4,4-)	107-39-1	2.2E+00	6.1E+00	2.2E+02	6.1E+02	3.7E+02	5.2E+02
Diisopropyl ether (2,2'-oxybis-propane)	108-20-3	3.7E+00	1.0E+01	3.7E+02	1.0E+03	3.7E+03	5.8E+03
Dimethenamid	87674-68-8	5.5E-01	1.5E+00	5.5E+01	1.5E+02	2.3E+03	1.5E+04
Dimethoate	60-51-5	7.3E-03	2.0E-02	7.3E-01	2.0E+00	3.1E+01	2.0E+02
Dimethoxybenzidine, 3,3'-	119-90-4	6.1E-03	2.0E-02	6.1E-01	2.0E+00	3.5E+01	2.0E+02
Dimethylaminoazobenzene, p-	60-11-7	3.7E-04	1.0E-03	3.7E-02	1.0E-01	1.5E+00	1.0E+01
Dimethylbenz-a-anthracene, 7,12-	57-97-6	3.4E-06	1.1E-05	3.4E-04	1.1E-03	1.8E-02	1.0E-01
Dimethylbenzidine, 3,3'-	119-93-7	9.3E-06	3.1E-05	9.3E-04	3.1E-03	5.3E-02	3.1E-01
Dimethylnaphthalene, 1,3-	575-41-7	1.5E+00	4.1E+00	1.5E+02	4.1E+02	5.5E+03	3.6E+04
Dimethyl phenol, 2,4-	105-67-9	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Dimethylphenethylamine, alpha, alpha-	122-09-8	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Dimethylphthalate	131-11-3	2.9E+01	8.2E+01	2.9E+03	8.2E+03	1.2E+05	8.2E+05
Di-n-butyl phthalate	84-74-2	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)	99-65-0	3.7E-03	1.0E-02	3.7E-01	1.0E+00	1.5E+01	1.0E+02
Dinitrobenzene, 1,4-	100-25-4	1.5E-02	4.1E-02	1.5E+00	4.1E+00	6.2E+01	4.1E+02
Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)	534-52-1	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Dinitrophenol, 2,4-	51-28-5	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Dinitrophenol, 2,5-	329-71-5	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Dinitrotoluene, 2,4-	121-14-2	1.3E-04	4.2E-04	1.3E-02	4.2E-02	7.2E-01	4.2E+00
Dinitrotoluene, 2,6-	606-20-2	1.3E-04	4.2E-04	1.3E-02	4.2E-02	7.2E-01	4.2E+00
Di-n-octyl phthalate	117-84-0	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Dinoseb	88-85-7	7.0E-03	7.0E-03	7.0E-01	7.0E-01	1.5E+02	1.0E+03
Dioxane 1,4-	123-91-1	7.7E-03	2.6E-02	7.7E-01	2.6E+00	5.8E+01	5.2E+02
Diphenylamine	122-39-4	9.1E-01	2.6E+00	9.1E+01	2.6E+02	3.9E+03	2.6E+04
Diphenylhydrazine, 1,2-	122-66-7	1.1E-04	3.6E-04	1.1E-02	3.6E-02	6.1E-01	3.6E+00
Diphenyl ether	101-84-8	2.3E-01	6.3E-01	2.3E+01	6.3E+01	6.0E+02	1.6E+03
Dipropylene glycol	110-98-5	4.2E+00	1.2E+01	4.2E+02	1.2E+03	1.8E+04	1.2E+05
Diquat	85-00-7	2.0E-02	2.0E-02	2.0E+00	2.0E+00	3.4E+02	2.2E+03
Disodium iminodiacetate (iminodiacetic acid, disodium salt)	928-72-3/ 142-73-4	3.7E-01	1.0E+00	3.7E+01	1.0E+02	1.5E+03	1.0E+04
Disulfoton	298-04-4	1.5E-03	4.1E-03	1.5E-01	4.1E-01	6.2E+00	4.1E+01

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Diuron	330-54-1	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Dodecylphenol, 4-	27193-86-8/						
Endosulfan	104-43-8	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Endosulfan I	115-29-7	2.2E-01	6.1E-01	2.2E+01	6.1E+01	6.2E+01	9.2E+01
Endosulfan II	959-98-8	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Endosulfan sulfate	33213-65-9	2.2E-01	6.1E-01	2.2E+01	6.1E+01	9.3E+02	6.1E+03
Endothall	1031-07-8	2.2E-01	6.1E-01	2.2E+01	6.1E+01	9.3E+02	6.1E+03
Endrin	145-73-3	1.0E-01	1.0E-01	1.0E+01	1.0E+01	3.1E+03	2.0E+04
Endrin aldehyde	72-20-8	2.0E-03	2.0E-03	2.0E-01	2.0E-01	4.6E+01	3.1E+02
Endrin ketone	7421-93-4	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Epichlorohydrin	53494-70-5	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)	106-89-8	8.6E-03	2.9E-02	8.6E-01	2.9E+00	7.2E+00	1.0E+01
Esfenvalerate	2104-64-5	3.7E-04	1.0E-03	3.7E-02	1.0E-01	1.5E+00	1.0E+01
Ethalfuralin (sonolan)	66230-04-4	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Ethanol	55283-68-6	9.6E-03	3.2E-02	9.6E-01	3.2E+00	5.5E+01	3.2E+02
Ethion	64-17-5	1.2E+03	3.4E+03	1.2E+05	3.4E+05	9.1E+06	6.7E+07
Ethoprop	563-12-2	1.8E-02	5.1E-02	1.8E+00	5.1E+00	7.7E+01	5.1E+02
Ethoxy ethanol, 2-	13194-48-4	3.0E-03	1.0E-02	3.0E-01	1.0E+00	1.5E+01	1.0E+02
Ethyl acetate	110-80-5	1.5E+01	4.1E+01	1.5E+03	4.1E+03	4.3E+00	6.0E+00
Ethyl acrylate	141-78-6	3.3E+01	9.2E+01	3.3E+03	9.2E+03	8.9E+03	1.3E+04
Ethyl benzene	140-88-5	1.8E-03	6.0E-03	1.8E-01	6.0E-01	1.3E+01	1.2E+02
Ethyl dipropylthiocarbamate, S-	100-41-4	7.0E-01	7.0E-01	7.0E+01	7.0E+01	4.3E+03	6.9E+03
Ethylene*	759-94-4	9.1E-01	2.6E+00	9.1E+01	2.6E+02	3.9E+03	2.6E+04
Ethylenediamine	74-85-1	---	---	---	---	---	---
Ethylene dibromide (dibromoethane, 1,2-)	107-15-3	7.3E-01	2.0E+00	7.3E+01	2.0E+02	5.5E+03	4.1E+04
Ethylene glycol	106-93-4	5.0E-05	5.0E-05	5.0E-03	5.0E-03	5.3E-02	1.0E-01
Ethylenimine	107-21-1	7.3E+01	2.0E+02	7.3E+03	2.0E+04	3.1E+05	2.0E+06
Ethylene oxide	151-56-4	1.3E-05	4.4E-05	1.3E-03	4.4E-03	9.9E-02	8.8E-01
Ethylene thiourea	75-21-8	8.3E-05	2.8E-04	8.3E-03	2.8E-02	7.5E-02	1.4E-01
Ethyl ether	96-45-7	7.7E-04	2.6E-03	7.7E-02	2.6E-01	4.4E+00	2.6E+01
Ethyl-1-hexanol, 2-	60-29-7	7.3E+00	2.0E+01	7.3E+02	2.0E+03	3.8E+03	5.7E+03
Ethyl-2-hexenal, 2-	104-76-7	5.5E+00	1.5E+01	5.5E+02	1.5E+03	1.3E+04	3.1E+04
Ethylhexyl acrylate, 2-	645-62-5	5.5E+00	1.5E+01	5.5E+02	1.5E+03	3.0E+03	4.5E+03
Ethyl methacrylate	103-11-7	1.8E-03	6.0E-03	1.8E-01	6.0E-01	1.0E+01	6.0E+01
Ethyl methanesulfonate	97-63-2	3.3E+00	9.2E+00	3.3E+02	9.2E+02	5.7E+03	9.9E+03
Ethyl-2-methyl benzene, 1-	62-50-0	8.6E-03	2.9E-02	8.6E-01	2.9E+00	4.9E+01	2.9E+02
Ethyl-4-methyl benzene, 1-	611-14-3	7.3E+00	2.0E+01	7.3E+02	2.0E+03	5.5E+03	8.4E+03
Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)	622-96-8	7.3E+00	2.0E+01	7.3E+02	2.0E+03	4.8E+03	7.2E+03
Famphur	637-92-3	3.7E-02	1.0E-01	3.7E+00	1.0E+01	2.2E+02	9.3E+02
Fensulfothion	52-85-7	1.1E-03	3.1E-03	1.1E-01	3.1E-01	4.6E+00	3.1E+01
Fenthion	115-90-2	3.7E-02	1.0E-01	3.7E+00	1.0E+01	1.5E+02	1.0E+03
Fluoranthene	55-38-9	2.6E-03	7.2E-03	2.6E-01	7.2E-01	1.1E+01	7.2E+01
Fluorene	206-44-0	1.5E+00	4.1E+00	1.5E+02	4.1E+02	5.5E+03	3.6E+04
Fluorine (soluble fluoride)	86-73-7	1.5E+00	4.1E+00	1.5E+02	4.1E+02	5.5E+03	3.6E+04
Fluorochloridone	7782-41-4	4.0E+00	4.0E+00	4.0E+02	4.0E+02	1.5E+04	1.1E+05
Fonofos	61213-25-0	2.7E-01	7.7E-01	2.7E+01	7.7E+01	1.2E+03	7.7E+03
Formaldehyde	944-22-9	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Formic acid	50-00-0	7.3E+00	2.0E+01	7.3E+02	2.0E+03	5.5E+04	4.1E+05
Furan	64-18-6	7.3E+01	2.0E+02	7.3E+03	2.0E+04	5.5E+05	4.1E+06
Furfural	110-00-9	3.7E-02	1.0E-01	3.7E+00	1.0E+01	3.9E+01	6.1E+01
Glycidylaldehyde	98-01-1	1.1E-01	3.1E-01	1.1E+01	3.1E+01	8.2E+02	6.1E+03
	765-34-4	1.5E-02	4.1E-02	1.5E+00	4.1E+00	1.1E+02	8.2E+02

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Glyphosate	1071-83-6	7.0E-01	7.0E-01	7.0E+01	7.0E+01	1.5E+04	1.0E+05
Heptachlor	76-44-8	4.0E-04	4.0E-04	4.0E-02	4.0E-02	9.3E-02	4.1E-01
Heptachlor epoxide	1024-57-3	2.0E-04	2.0E-04	2.0E-02	2.0E-02	5.4E-02	3.1E-01
Heptane, n-	142-82-5	2.2E+00	6.1E+00	2.2E+02	6.1E+02	1.1E+04	3.4E+04
Heptanoic acid, n-	111-14-8	1.8E+01	5.1E+01	1.8E+03	5.1E+03	7.7E+04	5.1E+05
Hexachlorobenzene	118-74-1	1.0E-03	1.0E-03	1.0E-01	1.0E-01	2.5E-01	1.0E+00
Hexachlorobutadiene	87-68-3	7.3E-03	2.0E-02	7.3E-01	2.0E+00	1.6E+01	3.2E+01
Hexachlorocyclohexane, alpha (alpha-BHC)	319-84-6	1.4E-05	4.5E-05	1.4E-03	4.5E-03	9.0E-02	6.5E-01
Hexachlorocyclohexane, beta (beta-BHC)	319-85-7	4.7E-04	1.6E-03	4.7E-02	1.6E-01	3.2E+00	2.3E+01
Hexachlorocyclohexane, delta (delta-BHC)	319-86-8	4.7E-05	1.6E-04	4.7E-03	1.6E-02	3.2E-01	2.3E+00
Hexachlorocyclohexane, gamma (lindane; gamma-BHC)	58-89-9	2.0E-04	2.0E-04	2.0E-02	2.0E-02	4.4E-01	3.1E+00
Hexachlorocyclohexane, techn (technical-BHC)	608-73-1	4.7E-05	1.6E-04	4.7E-03	1.6E-02	3.2E-01	2.3E+00
Hexachlorocyclopentadiene (HCCPD)	77-47-4	5.0E-02	5.0E-02	5.0E+00	5.0E+00	1.0E+01	1.4E+01
Hexachloroethane	67-72-1	3.7E-02	1.0E-01	3.7E+00	1.0E+01	1.5E+02	7.5E+02
Hexachlorophene	70-30-4	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Hexachloropropylene	1888-71-7	3.7E-02	1.0E-01	3.7E+00	1.0E+01	1.5E+02	7.6E+02
Hexanal, 2-ethyl-	123-05-7	5.5E+00	1.5E+01	5.5E+02	1.5E+03	3.0E+03	4.6E+03
Hexane, n-	110-54-3	2.2E+00	6.1E+00	2.2E+02	6.1E+02	2.0E+02	2.8E+02
Hexanediol, 1,6-	629-11-8	1.8E+02	5.1E+02	1.8E+04	5.1E+04	7.7E+05	5.1E+06
Hexanoic acid	142-62-1	2.3E+00	6.5E+00	2.3E+02	6.5E+02	9.9E+03	6.5E+04
Hexanone, 2-	591-78-6	2.2E+00	6.1E+00	2.2E+02	6.1E+02	6.2E+01	8.7E+01
Hexazinone	51235-04-2	1.2E+00	3.4E+00	1.2E+02	3.4E+02	5.1E+03	3.4E+04
Hexylene glycol (2-methyl-2,4-pentanediol)	107-41-5	1.1E+01	3.1E+01	1.1E+03	3.1E+03	4.6E+04	3.1E+05
Hydrazine	302-01-2	2.8E-05	9.5E-05	2.8E-03	9.5E-03	2.1E-01	1.9E+00
Hydrogen chloride (hydrochloric acid)*	7647-01-0	---	---	---	---	---	---
Hydroquinone	123-31-9	1.5E+00	4.1E+00	1.5E+02	4.1E+02	6.2E+03	4.1E+04
Indene	95-13-6	7.3E-01	2.0E+00	7.3E+01	2.0E+02	7.9E+01	1.1E+02
Indeno-1,2,3-cd-pyrene	193-39-5	2.0E-04	3.9E-04	2.0E-02	3.9E-02	6.3E-01	3.4E+00
Iron*	7439-89-6	---	---	---	---	---	---
Isoamyl alcohol	123-51-3	1.8E-01	5.1E-01	1.8E+01	5.1E+01	1.2E+03	6.6E+03
Isobutyl alcohol	78-83-1	1.1E+01	3.1E+01	1.1E+03	3.1E+03	3.0E+03	4.3E+03
Isobutylene (2-methyl-1-propene)	115-11-7	---	---	---	---	1.8E+03	2.5E+03
Isobutyric acid (2-methylpropanoic acid)	79-31-2	1.8E+01	5.1E+01	1.8E+03	5.1E+03	7.7E+04	5.1E+05
Isodecanol	25339-17-7	5.8E-02	1.6E-01	5.8E+00	1.6E+01	2.5E+02	1.6E+03
Isodrin	465-73-6	5.0E-06	1.7E-05	5.0E-04	1.7E-03	2.8E-02	1.6E-01
Isophorone	78-59-1	9.0E-01	3.0E+00	9.0E+01	3.0E+02	5.2E+03	3.0E+04
Isopropyl acetate	108-21-4	2.6E+00	7.2E+00	2.6E+02	7.2E+02	1.9E+04	1.4E+05
Isopropyl alcohol	67-63-0	7.3E+00	2.0E+01	7.3E+02	2.0E+03	5.5E+04	4.1E+05
Isosafrole	120-58-1	3.9E-04	1.3E-03	3.9E-02	1.3E-01	1.7E+00	6.0E+00
Kelthane (dicofol)	115-32-2	2.2E-01	6.1E-01	2.2E+01	6.1E+01	9.3E+02	6.1E+03
Kepone (chlordecone)	143-50-0	5.3E-05	1.8E-04	5.3E-03	1.8E-02	3.1E-01	1.8E+00
Lead (inorganic)	7439-92-1	1.5E-02	1.5E-02	1.5E+00	1.5E+00	5.0E+02 ^e	1.0E+03 ^e
Limonene, d-*	5989-27-5	---	---	---	---	---	---
Lithium	7439-93-2	7.3E-01	2.0E+00	7.3E+01	2.0E+02	5.1E+03	3.7E+04
Magnesium*	7439-95-4	---	---	---	---	---	---
Malathion	121-75-5	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Maleic anhydride	108-31-6	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Maleic hydrazide	123-33-1	1.8E+01	5.1E+01	1.8E+03	5.1E+03	7.7E+04	5.1E+05
Malononitrile	109-77-3	7.3E-04	2.0E-03	7.3E-02	2.0E-01	3.1E+00	2.0E+01
Mancozeb	8018-01-7	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Manganese	7439-96-5	1.7E+00	1.4E+01	1.7E+02	1.4E+03	1.7E+04	1.1E+05
MCPA (4-(chloro-2-methylphenoxy) acetic acid)	94-74-6	1.8E-02	5.1E-02	1.8E+00	5.1E+00	7.7E+01	5.1E+02

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
MCP (2-(4-chloro-2-methylphenoxy) propanoic acid)	7085-19-0/93-65-2	3.7E-02	1.0E-01	3.7E+00	1.0E+01	1.5E+02	1.0E+03
Merphos	150-50-5	1.1E-03	3.1E-03	1.1E-01	3.1E-01	4.6E+00	3.1E+01
Mercury (pH = 4.9) ^f	7439-97-6/7487-94-7	2.0E-03	2.0E-03	2.0E-01	2.0E-01	1.1E-01	1.5E-01
Methacrylic acid (2-methyl-2-propenoic acid)	79-41-4	3.7E-01	1.0E+00	3.7E+01	1.0E+02	2.4E+01	3.4E+01
Methacrylonitrile	126-98-7	3.7E-03	1.0E-02	3.7E-01	1.0E+00	1.1E+01	2.2E+01
Methanol	67-56-1	1.8E+01	5.1E+01	1.8E+03	5.1E+03	1.4E+05	1.0E+06
Methapyrilene	91-80-5	1.8E-04	6.1E-04	1.8E-02	6.1E-02	1.0E+00	6.1E+00
Methomyl	16752-77-5	9.1E-01	2.6E+00	9.1E+01	2.6E+02	3.9E+03	2.6E+04
Methoxychlor	72-43-5	4.0E-02	4.0E-02	4.0E+00	4.0E+00	7.5E+02	4.4E+03
Methoxyethanol, 2-	109-86-4	---	---	---	---	6.1E+00	8.5E+00
Methyl acetate (acetic acid, methyl ester)	79-20-9	3.7E+01	1.0E+02	3.7E+03	1.0E+04	2.1E+03	3.0E+03
Methyl acrylate	96-33-3	7.3E-02	2.0E-01	7.3E+00	2.0E+01	2.8E+01	4.1E+01
Methyl amyl ketone (2-heptanone)	110-43-0	1.8E+00	5.1E+00	1.8E+02	5.1E+02	4.2E+03	7.7E+03
Methyl-1-butene, 2-	563-46-2	2.2E+00	6.1E+00	2.2E+02	6.1E+02	5.8E+03	1.1E+04
Methyl-2-butene, 2-	513-35-9	2.2E+00	6.1E+00	2.2E+02	6.1E+02	7.3E+03	1.6E+04
Methylcholanthrene, 3-	56-49-5	3.9E-05	1.3E-04	3.9E-03	1.3E-02	2.1E-01	1.1E+00
Methyl chrysene, 1-	3351-28-8	1.2E-01	3.9E-01	1.2E+01	3.9E+01	6.3E+02	3.4E+03
Methyl chrysene, 2-	3351-32-4	1.2E-01	3.9E-01	1.2E+01	3.9E+01	6.3E+02	3.4E+03
Methyl chrysene, 6-	1705-85-7	1.2E-02	3.9E-02	1.2E+00	3.9E+00	6.3E+01	3.4E+02
Methyl cyclohexane	108-87-2	1.8E+02	5.1E+02	1.8E+04	5.1E+04	7.1E+03	1.0E+04
Methylene-bis (2-chloroaniline) 4,4'-	101-14-4	6.6E-04	2.2E-03	6.6E-02	2.2E-01	3.8E+00	2.2E+01
Methylene bromide (dibromomethane)	74-95-3	1.1E-01	3.8E-01	1.1E+01	3.8E+01	1.9E+02	2.7E+02
Methylene chloride (dichloromethane)	75-09-2	5.0E-03	5.0E-03	5.0E-01	5.0E-01	8.7E+00	1.6E+01
Methyl ethyl ketone (2-butanone)	78-93-3	2.2E+01	6.1E+01	2.2E+03	6.1E+03	2.6E+04	4.2E+04
Methyl iodide (iodomethane)	74-88-4	5.1E-02	1.4E-01	5.1E+00	1.4E+01	1.8E+01	2.6E+01
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	2.9E+00	8.2E+00	2.9E+02	8.2E+02	1.3E+04	3.5E+04
Methyl mercury	22967-92-6	3.7E-03	1.0E-02	3.7E-01	1.0E+00	2.5E+01	1.9E+02
Methylmercury hydroxide	1184-57-2	3.7E-03	1.0E-02	3.7E-01	1.0E+00	1.5E+01	1.0E+02
Methyl methacrylate	80-62-6	5.1E+01	1.4E+02	5.1E+03	1.4E+04	5.8E+03	8.2E+03
Methyl methanesulfonate	66-27-3	8.6E-03	2.9E-02	8.6E-01	2.9E+00	4.9E+01	2.9E+02
Methylnaphthalene, 1-	90-12-0	2.6E+00	7.2E+00	2.6E+02	7.2E+02	9.6E+03	6.2E+04
Methylnaphthalene, 2-	91-57-6	1.5E-01	4.1E-01	1.5E+01	4.1E+01	5.5E+02	3.6E+03
Methyl-5-nitroaniline, 2- (5-nitro-o-toluidine)	99-55-8	2.6E-02	8.7E-02	2.6E+00	8.7E+00	1.5E+02	8.7E+02
Methyl parathion	298-00-0	9.1E-03	2.6E-02	9.1E-01	2.6E+00	3.9E+01	2.6E+02
Methyl-2-pentenal, 2-	623-36-9	4.5E-04	1.5E-03	4.5E-02	1.5E-01	3.4E+00	3.0E+01
Methyl-1-propanal, 2- (isobutyraldehyde)	78-84-2	1.5E+00	4.1E+00	1.5E+02	4.1E+02	1.3E+03	1.9E+03
Methylpyrrolidone, N-	872-50-4	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Methyltetrahydrofuran, 2-	96-47-9	1.1E-01	3.8E-01	1.1E+01	3.8E+01	7.0E+01	1.3E+02
Methyltetrahydropyran, 2-	10141-72-7	1.1E-01	3.8E-01	1.1E+01	3.8E+01	1.1E+02	2.0E+02
Metolachlor	51218-45-2	5.5E+00	1.5E+01	5.5E+02	1.5E+03	2.3E+04	1.5E+05
Metribuzin	21087-64-9	9.1E-01	2.6E+00	9.1E+01	2.6E+02	3.9E+03	2.6E+04
Mirex	2385-85-5	7.3E-03	2.0E-02	7.3E-01	2.0E+00	3.1E+01	2.0E+02
Molinate	2212-67-1	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Molybdenum	7439-98-7	1.8E-01	5.1E-01	1.8E+01	5.1E+01	1.1E+03	8.1E+03
Monocrotophos	2157-98-4	2.2E-02	6.1E-02	2.2E+00	6.1E+00	9.3E+01	6.1E+02
Morpholine	110-91-8	1.8E+04	5.1E+04	1.8E+06	5.1E+06	1.4E+08	1.0E+09
MTBE (methyl tert-butyl ether)	1634-04-4	7E-01/1.5E-01	2E+00/1.5E-01	3.7E+01	1.0E+02	3.8E+02	7.1E+02
Naled	300-76-5	7.3E-02	2.0E-01	7.3E+00	2.0E+01	1.1E+02	2.2E+02
Naphthalene	91-20-3	7.3E-01	2.0E+00	7.3E+01	2.0E+02	1.8E+02	2.7E+02
Naphthoquinone, 1,4-	130-15-4	2.6E-01	7.2E-01	2.6E+01	7.2E+01	1.1E+03	7.2E+03

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Naphthylamine, 1-	134-32-7	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Naphthylamine, 2-	91-59-8	4.7E-04	1.6E-03	4.7E-02	1.6E-01	2.7E+00	1.6E+01
Napropamide	15299-99-7	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Neopentyl glycol	126-30-7	1.1E+01	3.1E+01	1.1E+03	3.1E+03	4.6E+04	3.1E+05
Nickel and compounds	7440-02-0	7.3E-01	2.0E+00	7.3E+01	2.0E+02	1.9E+03	1.2E+04
Nitrate	14797-55-8	1.0E+01	1.0E+01	1.0E+03	1.0E+03	4.1E+05	3.0E+06
Nitrite	14797-65-0	1.0E+00	1.0E+00	1.0E+02	1.0E+02	2.5E+04	1.9E+05
Nitroaniline, 2-	88-74-4	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Nitroaniline, 3-	99-09-2	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Nitroaniline, 4-	100-01-6	2.2E-02	7.5E-02	2.2E+00	7.5E+00	1.3E+02	7.5E+02
Nitrobenzene	98-95-3	1.8E-02	5.1E-02	1.8E+00	5.1E+00	6.5E+01	2.7E+02
Nitroglycerin	55-63-0	2.6E-03	7.2E-03	2.6E-01	7.2E-01	1.1E+01	7.2E+01
Nitrophenol, 2-	88-75-5	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Nitrophenol, 3-	554-84-7	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Nitrophenol, 4-	100-02-7	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Nitropropane, 2-	79-46-9	5.1E-03	1.4E-02	5.1E-01	1.4E+00	4.2E-02	7.0E-02
Nitroquinoline-N-oxide, 4-	56-57-5	9.1E-06	3.0E-05	9.1E-04	3.0E-03	5.2E-02	3.0E-01
Nitrosodiethanolamine, N-	1116-54-7	3.0E-05	1.0E-04	3.0E-03	1.0E-02	1.7E-01	1.0E+00
Nitrosodiethylamine, N-	55-18-5	5.7E-07	1.9E-06	5.7E-05	1.9E-04	4.3E-03	3.8E-02
Nitrosodimethylamine, N-	62-75-9	1.7E-06	5.6E-06	1.7E-04	5.6E-04	1.3E-02	1.1E-01
Nitrosodi-n-butylamine, N-	924-16-3	1.6E-05	5.3E-05	1.6E-03	5.3E-03	4.1E-02	1.0E-01
Nitrosodi-n-propylamine, N-	621-64-7	1.2E-05	4.1E-05	1.2E-03	4.1E-03	4.1E-02	1.6E-01
Nitrosodiphenylamine, N-	86-30-6	1.7E-02	5.8E-02	1.7E+00	5.8E+00	5.9E+01	2.3E+02
Nitroso-methyl-ethyl-amine, N-	10595-95-6	3.9E-06	1.3E-05	3.9E-04	1.3E-03	2.9E-02	2.6E-01
Nitrosomorpholine, N-	59-89-2	1.3E-04	4.3E-04	1.3E-02	4.3E-02	7.3E-01	4.3E+00
Nitroso-N-ethylurea, N-	759-73-9	6.1E-07	2.0E-06	6.1E-05	2.0E-04	3.5E-03	2.0E-02
Nitrosopiperidine, N-	100-75-4	9.1E-05	3.0E-04	9.1E-03	3.0E-02	5.2E-01	3.0E+00
Nitrosopyrrolidine, N-	930-55-2	4.1E-05	1.4E-04	4.1E-03	1.4E-02	2.3E-01	1.4E+00
Nitrotoluene, m-	99-08-1	3.7E-01	1.0E+00	3.7E+01	1.0E+02	4.4E+02	7.9E+02
Nitrotoluene, o-	88-72-2	3.7E-01	1.0E+00	3.7E+01	1.0E+02	4.7E+02	8.6E+02
Nitrotoluene, p-	99-99-0	3.7E-01	1.0E+00	3.7E+01	1.0E+02	4.4E+02	7.9E+02
Nonachlor, cis-	5103-73-1	2.4E-04	8.2E-04	2.4E-02	8.2E-02	1.4E+00	7.8E+00
Nonachlor, trans-	39765-80-5	2.4E-04	8.2E-04	2.4E-02	8.2E-02	1.4E+00	7.8E+00
Nonanal	124-19-6	7.3E+00	2.0E+01	7.3E+02	2.0E+03	3.1E+04	2.0E+05
	25154-52-3/ 84852-15-3/						
Nonylphenol	104-40-5	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Nonylphenol ethoxylate	104-35-8	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	9.8E+04
Octamethylpyrophosphoramidate	152-16-9	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Octanone	106-68-3	2.2E+00	6.1E+00	2.2E+02	6.1E+02	1.6E+04	1.1E+05
Oxamyl	23135-22-0	2.0E-01	2.0E-01	2.0E+01	2.0E+01	3.9E+03	2.6E+04
Oxychlorane	27304-13-8	2.4E-04	8.2E-04	2.4E-02	8.2E-02	1.4E+00	7.8E+00
Paraquat	1910-42-5	1.6E-01	4.6E-01	1.6E+01	4.6E+01	7.0E+02	4.6E+03
Parathion (ethyl parathion)	56-38-2	2.2E-01	6.1E-01	2.2E+01	6.1E+01	9.3E+02	6.1E+03
Pebulate	1114-71-2	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Pendimethalin	40487-42-1	1.5E+00	4.1E+00	1.5E+02	4.1E+02	6.2E+03	4.1E+04
Pentachlorobenzene	608-93-5	2.9E-02	8.2E-02	2.9E+00	8.2E+00	1.2E+02	8.0E+02
Pentachloroethane	76-01-7	3.3E-02	1.1E-01	3.3E+00	1.1E+01	5.2E+01	1.1E+02
Pentachloronitrobenzene	82-68-8	3.3E-03	1.1E-02	3.3E-01	1.1E+00	1.9E+01	1.1E+02
Pentachlorophenol	87-86-5	1.0E-03	1.0E-03	1.0E-01	1.0E-01	3.0E+00	1.4E+01
Pentadiene, 1,3-trans-	2004-70-8	2.2E+00	6.1E+00	2.2E+02	6.1E+02	1.0E+04	2.9E+04
Pentaerythritol tetranitrate (PETN)	78-11-5	1.5E+01	4.1E+01	1.5E+03	4.1E+03	6.2E+04	4.1E+05

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Pentane	109-66-0	2.6E+01	7.2E+01	2.6E+03	7.2E+03	1.7E+02	2.3E+02
Pentane, 2-methyl-	107-83-5	2.2E+00	6.1E+00	2.2E+02	6.1E+02	8.0E+03	1.9E+04
Pentane, 3-methyl-	96-14-0	2.2E+00	6.1E+00	2.2E+02	6.1E+02	8.4E+03	2.0E+04
Pentanediol, 1,5-	111-29-5	1.8E+02	5.1E+02	1.8E+04	5.1E+04	7.7E+05	5.1E+06
Pentanol, 1-	71-41-0	1.2E+00	3.4E+00	1.2E+02	3.4E+02	9.1E+03	6.7E+04
Pentanol, 4-methyl-2-	108-11-2	9.5E-01	2.7E+00	9.5E+01	2.7E+02	2.3E+03	4.2E+03
Pentanone, 2-	107-87-9	1.5E+00	4.1E+00	1.5E+02	4.1E+02	3.8E+03	7.5E+03
Pentyne, 1-	627-19-0	2.2E+00	6.1E+00	2.2E+02	6.1E+02	9.9E+03	2.7E+04
Perchlorate	14797-73-0	2.6E-02	7.2E-02	2.6E+00	7.2E+00	1.4E+02	9.5E+02
Perylene	198-55-0	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Phenacetin	62-44-2	3.9E-02	1.3E-01	3.9E+00	1.3E+01	2.2E+02	1.3E+03
Phenanthrene	85-01-8	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.1E+03	2.7E+04
Phenanthridine	229-87-8	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Phenol	108-95-2	1.1E+01	3.1E+01	1.1E+03	3.1E+03	4.6E+04	3.1E+05
Phenol, 4-tert-butyl-	98-54-4	1.8E-01	5.1E-01	1.8E+01	5.1E+01	7.7E+02	5.1E+03
Phenothiazine	92-84-2	4.0E-02	1.1E-01	4.0E+00	1.1E+01	1.7E+02	1.1E+03
Phenylene diamine, m-	108-45-2	2.2E-01	6.1E-01	2.2E+01	6.1E+01	9.3E+02	6.1E+03
Phenylene diamine, p-	106-50-3	6.9E+00	1.9E+01	6.9E+02	1.9E+03	2.9E+04	1.9E+05
Phenyl mercuric acetate	62-38-4	2.9E-03	8.2E-03	2.9E-01	8.2E-01	1.2E+01	8.2E+01
Phorate	298-02-2	7.3E-03	2.0E-02	7.3E-01	2.0E+00	1.6E+01	3.8E+01
Phosalone	2310-17-0	7.3E-02	2.0E-01	7.3E+00	2.0E+01	3.1E+02	2.0E+03
Phosdrin (mevinphos)	7786-34-7	9.1E-04	2.6E-03	9.1E-02	2.6E-01	3.9E+00	2.6E+01
Phosmet	732-11-6	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Phosphine	7803-51-2	1.1E-02	3.1E-02	1.1E+00	3.1E+00	5.9E+01	4.1E+02
Phosphorus, total*	7723-14-0	---	---	---	---	---	---
Phosphorus, white	7723-14-0	7.3E-04	2.0E-03	7.3E-02	2.0E-01	4.0E+00	2.7E+01
Phthalic anhydride	85-44-9	7.3E+01	2.0E+02	7.3E+03	2.0E+04	3.1E+05	2.0E+06
Picloram	1918-02-1	5.0E-01	5.0E-01	5.0E+01	5.0E+01	1.1E+04	7.2E+04
Picoline, 2- (2-methylpyridine)	109-06-8	3.3E-01	9.2E-01	3.3E+01	9.2E+01	9.7E+00	1.4E+01
Polybrominated biphenyls (PBBs)	67774-32-7	9.6E-06	3.2E-05	9.6E-04	3.2E-03	5.5E-02	3.2E-01
Polychlorinated biphenyls (PCBs)	1336-36-3	5.0E-04	5.0E-04	5.0E-02	5.0E-02	1.0E+01 ^h	1.0E+01 ^h
Potassium*	7440-09-7	---	---	---	---	---	---
Primene	68955-53-3	2.2E-01	6.1E-01	2.2E+01	6.1E+01	6.9E+02	2.3E+03
Prometon (pramitol)	1610-18-0	5.5E-01	1.5E+00	5.5E+01	1.5E+02	2.3E+03	1.5E+04
Pronamide	23950-58-5	2.7E+00	7.7E+00	2.7E+02	7.7E+02	1.2E+04	7.7E+04
Propanal (propionaldehyde)	123-38-6	2.9E-01	8.2E-01	2.9E+01	8.2E+01	5.3E+02	9.2E+02
Propanil	709-98-8	1.8E-01	5.1E-01	1.8E+01	5.1E+01	7.7E+02	5.1E+03
Propanoic acid (propionic acid)	79-09-4	1.8E+01	5.1E+01	1.8E+03	5.1E+03	1.4E+05	1.0E+06
Propanol, 1-	71-23-8	7.3E+00	2.0E+01	7.3E+02	2.0E+03	5.5E+04	4.1E+05
Propargite	2312-35-8	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Propargyl alcohol	107-19-7	7.3E-02	2.0E-01	7.3E+00	2.0E+01	5.5E+02	4.1E+03
Propazine	139-40-2	1.9E-02	6.4E-02	1.9E+00	6.4E+00	1.1E+02	6.4E+02
Propham	122-42-9	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Propionitrile (propane nitrile)	107-12-0	1.5E-02	4.1E-02	1.5E+00	4.1E+00	4.3E+01	8.9E+01
Propyl acetate, n-	109-60-4	3.3E+00	9.2E+00	3.3E+02	9.2E+02	2.5E+04	1.8E+05
Propylbenzene, n-	103-65-1	1.5E+00	4.1E+00	1.5E+02	4.1E+02	3.2E+03	5.9E+03
Propylene glycol	57-55-6	7.3E+02	2.0E+03	7.3E+04	2.0E+05	3.1E+06	2.0E+07
Propylene glycol monomethyl ether	107-98-2	2.6E+01	7.2E+01	2.6E+03	7.2E+03	1.9E+05	1.4E+06
Propylene oxide	75-56-9	3.5E-04	1.2E-03	3.5E-02	1.2E-01	1.2E+00	3.1E+00
Propylene tetramer	6842-15-5	3.7E+00	1.0E+01	3.7E+02	1.0E+03	5.3E+03	1.0E+04
Prothiofos (Tokuthion)	34643-46-4	3.7E-03	1.0E-02	3.7E-01	1.0E+00	1.5E+01	1.0E+02
Pyrene	129-00-0	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.1E+03	2.7E+04

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Pyridine	110-86-1	3.7E-02	1.0E-01	3.7E+00	1.0E+01	8.2E+00	1.2E+01
Quinoline	91-22-5	2.8E-05	9.5E-05	2.8E-03	9.5E-03	1.6E-01	9.5E-01
Ronnel	299-84-3	1.8E+00	5.1E+00	1.8E+02	5.1E+02	7.7E+03	5.1E+04
Safrole	94-59-7	3.9E-03	1.3E-02	3.9E-01	1.3E+00	1.5E+01	5.0E+01
Selenium	7782-49-2	5.0E-02	5.0E-02	5.0E+00	5.0E+00	1.3E+03	9.3E+03
Selenourea	630-10-4	1.8E-01	5.1E-01	1.8E+01	5.1E+01	1.4E+03	1.0E+04
Silver	7440-22-4	1.8E-01	5.1E-01	1.8E+01	5.1E+01	4.7E+02	2.9E+03
Simazine	122-34-9	4.0E-03	4.0E-03	4.0E-01	4.0E-01	4.1E+01	2.4E+02
Sodium*	7440-23-5	---	---	---	---	---	---
Sodium diethyldithiocarbamate	148-18-5	3.2E-03	1.1E-02	3.2E-01	1.1E+00	2.4E+01	2.1E+02
Sodium hypochlorite	7681-52-9	7.7E+00	2.1E+01	7.7E+02	2.1E+03	4.2E+04	2.9E+05
Sodium polyacrylate	9003-04-7	1.8E+01	5.1E+01	1.8E+03	5.1E+03	1.4E+05	1.0E+06
Strontium	7440-24-6	2.2E+01	6.1E+01	2.2E+03	6.1E+03	1.2E+05	8.2E+05
Strychnine	57-24-9	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Styrene	100-42-5	1.0E-01	1.0E-01	1.0E+01	1.0E+01	1.3E+04	2.3E+04
Sulfate*	14808-79-8	---	---	---	---	---	---
Sulfide*	18496-25-8	---	---	---	---	---	---
Sulfolane	126-33-0	7.3E-04	2.0E-03	7.3E-02	2.0E-01	3.1E+00	2.0E+01
Sulfur*	7704-34-9	---	---	---	---	---	---
Tebuconazole	107534-96-3	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Tebuthiuron	34014-18-1	2.6E+00	7.2E+00	2.6E+02	7.2E+02	1.1E+04	7.2E+04
Terbufos	13071-79-9	9.1E-04	2.6E-03	9.1E-02	2.6E-01	3.9E+00	2.6E+01
Tert-amyl-methyl ether (TAME)	994-05-8	1.5E+00	4.1E+00	1.5E+02	4.1E+02	2.9E+02	4.2E+02
Tert-butyl alcohol (2-methyl-2-propanol)	75-65-0	3.3E+00	9.2E+00	3.3E+02	9.2E+02	4.2E+03	6.9E+03
Tetrachlorobenzene, 1,2,3,4-	634-66-2	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Tetrachlorobenzene, 1,2,3,5-	634-90-2	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Tetrachlorobenzene, 1,2,4,5-	95-94-3	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.0E+02
Tetrachloroethane, 1,1,1,2-	630-20-6	3.3E-02	1.1E-01	3.3E+00	1.1E+01	5.2E+01	1.0E+02
Tetrachloroethane, 1,1,2,2-	79-34-5	4.3E-03	1.4E-02	4.3E-01	1.4E+00	5.1E+00	9.8E+00
Tetrachloroethylene (perchloroethylene)	127-18-4	5.0E-03	5.0E-03	5.0E-01	5.0E-01	6.0E+00	1.7E+01
Tetrachlorophenol, 2,3,4,5-	4901-51-3	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Tetrachlorophenol, 2,3,4,6-	58-90-2	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Tetrachlorophenol, 2,3,5,6-	935-95-5	1.1E+00	3.1E+00	1.1E+02	3.1E+02	1.1E+02	1.5E+02
Tetrachlorvinphos (Stiophos)	22248-79-9	1.5E+00	4.3E+00	1.5E+02	4.3E+02	6.5E+03	4.3E+04
Tetradifon	116-29-0	7.3E-01	2.0E+00	7.3E+01	2.0E+02	3.1E+03	2.0E+04
Tetraethyl dithiopyrophosphate (sulfotep)	3689-24-5	1.8E-02	5.1E-02	1.8E+00	5.1E+00	7.7E+01	5.1E+02
Tetraethylene glycol	112-60-7	1.2E+01	3.4E+01	1.2E+03	3.4E+03	5.1E+04	3.4E+05
Tetraethyl lead	78-00-2	3.7E-06	1.0E-05	3.7E-04	1.0E-03	1.5E-02	9.7E-02
Tetrahydrofuran	109-99-9	1.1E-01	3.8E-01	1.1E+01	3.8E+01	5.4E+01	9.5E+01
Tetrahydropyran	142-68-7	1.1E-01	3.8E-01	1.1E+01	3.8E+01	8.5E+01	1.5E+02
Thallium and compounds (as thallium chloride)	7791-12-0	2.0E-03	2.0E-03	2.0E-01	2.0E-01	2.0E+01	1.5E+02
Thiofanox	39196-18-4	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Thionazin	297-97-2	2.6E-03	7.2E-03	2.6E-01	7.2E-01	1.1E+01	7.2E+01
Thiophanate-methyl	23564-05-8	2.9E+00	8.2E+00	2.9E+02	8.2E+02	1.2E+04	8.2E+04
Thiram	137-26-8	1.8E-01	5.1E-01	1.8E+01	5.1E+01	7.7E+02	5.1E+03
Tin	7440-31-5	2.2E+01	6.1E+01	2.2E+03	6.1E+03	9.3E+04	6.1E+05
Titanium	7440-32-6	1.8E+04	5.1E+04	1.8E+06	5.1E+06	3.8E+07	2.4E+08
Toluene	108-88-3	1.0E+00	1.0E+00	1.0E+02	1.0E+02	1.1E+04	2.5E+04
Toluenediamine, 2,4-	95-80-7	2.7E-05	8.9E-05	2.7E-03	8.9E-03	1.5E-01	8.9E-01
Toluenediamine, 2,6-	823-40-5	7.3E+00	2.0E+01	7.3E+02	2.0E+03	3.1E+04	2.0E+05
Toluene diisocyanate, 2,4/2,6-	26471-62-5	---	---	---	---	2.9E+02	4.1E+02
Toluidine, o-	95-53-4	3.5E-04	1.2E-03	3.5E-02	1.2E-01	2.0E+00	1.2E+01

Last update: March 31, 2006

Updated Examples of Standard No. 2, Appendix II Medium-Specific Concentrations (MSCs)							
Contaminant	CAS #	GW-Res (mg/l)	GW-Ind (mg/l)	GWP-Res (mg/kg)	GWP-Ind (mg/kg)	SAI-Res ^a (mg/kg)	SAI-Ind ^a (mg/kg)
Toluidine, p-	106-49-0	4.5E-03	1.5E-02	4.5E-01	1.5E+00	2.6E+01	1.5E+02
Toxaphene	8001-35-2	3.0E-03	3.0E-03	3.0E-01	3.0E-01	4.4E-01	2.6E+00
TP Silvex, 2,4,5-	93-72-1	5.0E-02	5.0E-02	5.0E+00	5.0E+00	1.2E+03	8.2E+03
Triademenol	55219-65-3	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Triallate	2303-17-5	4.7E-01	1.3E+00	4.7E+01	1.3E+02	2.0E+03	1.3E+04
Triaminotrinitrobenzene (TATB)	3058-38-6	2.8E-02	9.5E-02	2.8E+00	9.5E+00	1.6E+02	9.5E+02
Tributyltin oxide	56-35-9	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Trichlorobenzene, 1,2,3-	87-61-6	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.2E+02	2.0E+03
Trichlorobenzene, 1,2,4-	120-82-1	7.0E-02	7.0E-02	7.0E+00	7.0E+00	1.4E+03	6.1E+03
Trichlorobenzene, 1,3,5-	108-70-3	1.1E-01	3.1E-01	1.1E+01	3.1E+01	3.7E+02	1.4E+03
Trichloroethane, 1,1,1-	71-55-6	2.0E-01	2.0E-01	2.0E+01	2.0E+01	2.3E+03	3.4E+03
Trichloroethane, 1,1,2-	79-00-5	5.0E-03	5.0E-03	5.0E-01	5.0E-01	9.7E+00	1.7E+01
Trichloroethylene	79-01-6	5.0E-03	5.0E-03	5.0E-01	5.0E-01	3.7E+00	6.6E+00
Trichlorofluoromethane	75-69-4	1.1E+01	3.1E+01	1.1E+03	3.1E+03	2.6E+03	3.8E+03
Trichloronate	327-98-0	1.1E-01	3.1E-01	1.1E+01	3.1E+01	4.6E+02	3.1E+03
Trichlorophenol, 2,3,4-	15950-66-0	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Trichlorophenol, 2,3,5-	933-78-8	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Trichlorophenol, 2,3,6-	933-75-5	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+03	2.3E+03
Trichlorophenol, 2,4,5-	95-95-4	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Trichlorophenol, 2,4,6-	88-06-2	7.7E-03	2.6E-02	7.7E-01	2.6E+00	4.4E+01	2.6E+02
Trichlorophenol, 3,4,5-	609-19-8	3.7E+00	1.0E+01	3.7E+02	1.0E+03	1.5E+04	1.0E+05
Trichlorophenoxyacetic acid, 2,4,5-	93-76-5	3.7E-01	1.0E+00	3.7E+01	1.0E+02	1.5E+03	1.0E+04
Trichloropropane, 1,1,2-	598-77-6	1.8E-01	5.1E-01	1.8E+01	5.1E+01	1.7E+02	2.7E+02
Trichloropropane, 1,2,3-	96-18-4	1.2E-05	4.1E-05	1.2E-03	4.1E-03	9.1E-02	8.2E-01
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	1.1E+03	3.1E+03	1.1E+05	3.1E+05	4.3E+04	6.0E+04
Triethanolamine	102-71-6	7.3E+00	2.0E+01	7.3E+02	2.0E+03	3.1E+04	2.0E+05
Triethylamine	121-44-8	---	---	---	---	3.7E+01	5.2E+01
Triethylene glycol	112-27-6	1.1E+02	3.1E+02	1.1E+04	3.1E+04	4.6E+05	3.1E+06
Triethylphosphorothioate, O, O, O-	126-68-1	3.0E-04	8.5E-04	3.0E-02	8.5E-02	1.3E+00	8.5E+00
Trifluralin	1582-09-8	1.1E-01	3.7E-01	1.1E+01	3.7E+01	6.4E+02	3.7E+03
Trimethylamine	75-50-3	---	---	---	---	8.3E+01	1.2E+02
Trimethylbenzene, 1,2,3-	526-73-8	1.8E+00	5.1E+00	1.8E+02	5.1E+02	8.6E+01	1.2E+02
Trimethylbenzene, 1,2,4-	95-63-6	1.8E+00	5.1E+00	1.8E+02	5.1E+02	9.6E+01	1.4E+02
Trimethylbenzene, 1,3,5-	108-67-8	1.8E+00	5.1E+00	1.8E+02	5.1E+02	8.3E+01	1.2E+02
Trinitrobenzene, 1,3,5-	99-35-4	1.1E+00	3.1E+00	1.1E+02	3.1E+02	4.6E+03	3.1E+04
Trinitrophenylmethylnitramine (tetryl; nitramine)	479-45-8	3.7E-01	1.0E+00	3.7E+01	1.0E+02	1.5E+03	1.0E+04
Trinitrotoluene, 2,4,6-	118-96-7	1.8E-02	5.1E-02	1.8E+00	5.1E+00	7.7E+01	5.1E+02
Uranium (soluble salts)	7440-61-1	3.0E-02	3.0E-02	3.0E+00	3.0E+00	7.6E+02	5.6E+03
Valeric acid (pentanoic acid)	109-52-4	1.8E+01	5.1E+01	1.8E+03	5.1E+03	7.7E+04	5.1E+05
Vanadium	7440-62-2	2.6E-01	7.2E-01	2.6E+01	7.2E+01	4.8E+02	3.0E+03
Vernam	1929-77-7	3.7E-02	1.0E-01	3.7E+00	1.0E+01	1.5E+02	1.0E+03
Vinyl acetate	108-05-4	3.7E+01	1.0E+02	3.7E+03	1.0E+04	5.7E+02	8.0E+02
Vinyl chloride	75-01-4	2.0E-03	2.0E-03	2.0E-01	2.0E-01	3.6E-02	6.6E-02
Vinylcyclohexane	695-12-5	1.8E+01	5.1E+01	1.8E+03	5.1E+03	6.0E+01	8.4E+01
Warfarin	81-81-2	1.1E-02	3.1E-02	1.1E+00	3.1E+00	4.6E+01	3.1E+02
Xylene, m-	108-38-3	1.0E+01	1.0E+01	1.0E+03	1.0E+03	2.3E+03	3.3E+03
Xylene, o-	95-47-6	1.0E+01	1.0E+01	1.0E+03	1.0E+03	3.3E+04	4.8E+04
Xylene, p-	106-42-3	1.0E+01	1.0E+01	1.0E+03	1.0E+03	2.7E+03	3.8E+03
Xylenes	1330-20-7	1.0E+01	1.0E+01	1.0E+03	1.0E+03	5.8E+02	8.3E+02
Zinc	7440-66-6	1.1E+01	3.1E+01	1.1E+03	3.1E+03	5.9E+04	4.1E+05
6 C aliphatics (TPH)	NA	2.2E+00	6.1E+00	2.2E+02	6.1E+02	1.5E+02	2.1E+02
>6-8 C aliphatics (TPH)	NA	2.2E+00	6.1E+00	2.2E+02	6.1E+02	3.0E+02	4.2E+02

APPENDIX 4
DATA QUALITY REVIEW

INTRODUCTION

In conjunction with an investigational sampling event performed for Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas, surface soil samples and sump water samples were collected and were subsequently sent to a NELAC accredited laboratory, TestAmerica Laboratories, Inc. (Denver) of Arvada, Colorado (Lab Certification ID Number is E87667) for chemical analyses per the associated USACE Site-Specific Sampling and Analysis Plan. This sampling event was conducted during August 2010. Nine (9) samples were collected during this event, including five (5) soil samples [four sample locations and one duplicate] and four (4) water samples [two sample locations, one equipment blank rinsate, and one trip blank]. Chemical analyses performed on the samples include Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), Explosives, and Perchlorates. Analytical results are listed in TestAmerica Analytical Report (Job Number: 280-6075-1).

A cursory data quality review performed on the laboratory data included, but was not limited to, the following areas: holding times, methods used, spike recoveries, surrogate recoveries, reporting units, detection limits, relative percent difference (RPD) factors, dilution factors, chain of custody forms, cooler receipt forms/checklists, blanks, calibrations, etc.

METALS (RCRA)

Analyses for the metal analytes were performed using SW-846 methods 6020A (arsenic, barium, cadmium, chromium, lead, selenium, and silver) and 7470A/7471B (mercury). All of the samples were analyzed within the holding times required by the respective method.

Soil

Chromium and lead were detected in a method blank (MB) at levels above the method detection limit (MDL) but below the respective reporting limit (RL) and were “J” flagged, accordingly. If associated samples reported a result above the MDL or the RL, the result was qualified, accordingly, with a “B” flag. Matrix spike (MS) and matrix spike duplicate (MSD) for one batch were outside control limits for barium but the associated laboratory control sample (LCS) recovery met acceptance criteria. All other pertinent quality control parameters were within acceptance limits.

Water

All associated quality control parameters were within acceptance limits.

VOLATILE ORGANIC COMPOUNDS (VOCs)

SW-846 method 8260B was used for VOCs analyses. All of the samples were analyzed within required holding times for the method. NOTE: One (of two) 1-liter sample bottle was broken during shipment for two samples (NE SUMP & RINSATE) but there was sufficient volume to perform the requested analyses.

Soil

All associated quality control parameters were within the acceptance limits.

Water

Methylene Chloride was detected in a MB above the MDL but below the RL and was “J” flagged. Any associated sample with detected results is “B” flagged, accordingly. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SW-846 method 8270C was used to analyze the samples for SVOCs. All samples were analyzed within required holding time, however, some samples required re-extraction and were reanalyzed outside of holding times. Results for both sets of data were reported. The reanalysis results for these samples were “H” flagged.

Soil

Matrix issues caused unresolved peaks for benzo (b) fluoranthene and benzo (k) fluoranthene and associated results were “K” flagged. Laboratory control spike duplicate (LCSD) exceeded control limits for one batch but the associated laboratory control spike (LCS) was 100% within control, accordingly, data were reported with appropriate “qualifier” flags. All other quality control parameters were within acceptance limits.

Water

Several SVOC analytes were detected in a MB above the MDL but below the RL. Values were considered estimates and were “J” flagged. Associated samples with detected results above the MDL or RL were “B” flagged. Several analytes exceeded LCS and/or LCSD control criteria and some samples were reanalyzed outside of holding time (mentioned earlier). Both sets of data were reported. Surrogate recovery for a prep blank was outside control limits for one batch but associated sample surrogates were within acceptance criteria. Both sets of data were reported. All other quality control parameters were within acceptance limits.

EXPLOSIVES

SW-846 method 8330B was used for Explosives analyses. All samples were analyzed within required holding times for the method.

Soil

No difficulties were encountered for laboratory explosives analyses. All respective quality control parameters were within the acceptance limits.

Water

4-amino-2,6-dinitrotoluene was detected in a MB that was above the RL. Any associated sample with a detected result above the MDL or RL is qualified with a “B” flag. The surrogate recovery for the Rinsate sample was outside (high) upper control limit, however, the sample did not contain any target analytes and did not require re-extraction or reanalysis. Surrogate recoveries for all of the other samples were within control limits. All other quality control parameters were within acceptance limits.

PERCHLORATES

Samples were analyzed for Perchlorates using SW-846 method 6860. All samples were analyzed within the method required holding times.

Soil

MS/MSD recoveries for a sample batch were outside control limits; however, the associated LCS recovery for the batch met acceptance criteria. No other issues were encountered during the Perchlorates analyses. All other quality control parameters were within the acceptance limits.

Water

All quality control parameters were within the acceptance limits.

TECHNICAL SUMMARY

The chain of custody form was complete and contained the required information. The cooler receipt form/login checklist was complete.

CONCLUSION

No data were rejected as being unusable by the Tulsa District. Potential problems and other areas of concern are noted and discussed in the appropriate section of this review. The overall review of soil and water samples collected for this investigational field work indicates that proper sampling procedures and laboratory analyses were executed. Therefore, The Tulsa District considers the data usable for this sampling event.

Greg Williams
Senior Chemist, Army/FUDS Section

John Lambert
Chief, Army/FUDS Section

LONGHORN ARMY AMMUNITION PLANT
Karnack, Texas

MONTHLY MANAGERS' MEETING

AGENDA

DATE: Tuesday, October 25, 2011
TIME: 9:30 am.
PLACE: Teleconference. Call In Number Courtesy of
 Shaw: 866-797-9304/4155734

Welcome

RMZ

Action Items

EPA

- Forward perchlorate waste information on to Army
- Review/approve Final Installation-Wide Work Plan

TCEQ

- Review/approve Final Installation-Wide Work Plan

Shaw

- Address TCEQ comments on the impacts from the elimination of ITS data on current sites
- Installation-wide work plan update/approval

Defense Environmental Restoration Program (DERP) PBC Update

PS

- Document Status/Environmental Sites (Table)
- Groundwater Treatment Plant
- Groundwater and Surface Water Sampling Schedule Spreadsheet. Next sampling round.
- 18/24 Soil Sampling results

DERP Total Environmental Restoration Contract Update

Army

- LHAAP-37 Well Installation
- Pilot Demonstration at LHAAP-37 Status

MMRP Update

Army

- Levels of perchlorate in groundwater
- Update IRP Metals Issue

Programmatic Issues

Army

NOV and Status of Enforceable Schedule

USFWS Update

RMZ/PB

- Environmental Restoration Issues with Transfer Schedule Impact
- USFWS Comments on Documents

Adjourn

ACRONYM LIST

DERP-	Defense Environmental Restoration Program
EPA-	Environmental Protection Agency
FS-	Feasibility Study
IRP-	Installation Restoration Program
ITS-	Intertek Testing Services
LHAAP-	Longhorn Army Ammunition Plant
MMRP-	Military Munitions Response Program
MNA-	Monitored Natural Attenuation
PB-	Paul Bruckwicki
PBC-	Performance Based Contract
PS-	Praveen Srivastav
QA-	Quality Assurance
QC-	Quality Control
RMZ-	Rose M. Zeiler
RD-	Remedial Design
ROD-	Record of Decision
SAP-	Sampling and Analysis Plan
TCEQ-	Texas Commission on Environmental Quality
USFWS-	United States Fish and Wildlife Service



Subject: **Draft Final Minutes, Monthly Managers Meeting,
Longhorn Army Ammunition Plant (LHAAP)**

Location of Meeting: **Teleconference**

Date of Meeting: **October 25, 2011; 9:30 AM – 10:45 AM**

Meeting Participants:

BRAC: Rose M. Zeiler
USAEC: Marilyn Plitnik
USACE-Tulsa: Aaron Williams, John Lambert
Shaw: Praveen Srivastav, Susan Watson
USEPA Region 6: Steve Tzhone
TCEQ: Fay Duke
USGS: Kent Becher
USFWS: Paul Bruckwicki

Welcome

Rose M. Zeiler

Action Item Status

EPA

- Forward perchlorate waste information on to Army. TBD

Shaw

- Submit the ERA memo regarding ITS data elimination to regulators. Complete.

Defense Environmental Restoration Program (DERP) PBC Update

Praveen Srivastav

Document Status/ Environmental Sites (Table)

- LHAAP-03: The EE/CA is in Army's review
- LHAAP-04: Army comments received. Resolution in progress.
- LHAAP-16 and 17 RODs: The Army received a notice of violation (NOV) for these RODs. NOV's were issued on the two other LHAAP RODs also. Certain issues could not be resolved between the Army and EPA leading to RODs not being signed by both parties.
- LHAAP-18/24 – Comment resolution pending.
- LHAAP-29: ROD – Comment resolution continuing. BRAC legal is reviewing the ROD. The FFA identifies that comment resolution should be done at draft final stage of the document. There are still differences of opinion between EPA HQ and BRAC HQ on certain issues.
- LHAAP-12 RA(O): Comment resolution continuing

Groundwater Treatment Plant

The GWTP is functioning normally. The treated effluent water is being discharged to the burning ground (via sprinkler system) and injected in ICTs. There were no major problems reported. Several pumps in the ICTs are being repaired. EPA will provide comments on the April-June 2011 quarterly report.

Groundwater and Surface Water Sampling

Sampling was completed in September 2011. Kent Becher requested analytical data from September 2011 sampling at LHAAP-18/24 for their QA evaluation.

Tables containing update of September 2011 perimeter well and creek sampling were provided and discussed. There are low level detections of perchlorate in two wells, although concentrations are below MSCs. Some discussion occurred on the detections but it was concluded that the variation is likely within the uncertainty of the analytical methods. No water was present at the sampling locations in the creeks and thus no surface water samples were collected.

DERP Total Environmental Restoration Contract Update

Army

LHAAP-37 Demonstration Project

Tulsa Corps is working with their contracting to have contact in place in late November – early December 2011 for the pilot demonstration project. The Corps plans to collect a round of samples at the site before the pilot study to determine current boundaries of the plume.

Pilot Demonstration at LHAAP-37 Status

The field work for the pilot project is expected to begin in December 2011 or January 2012.

MMRP Update

Army

Status of ROD – Responses to comments are being resolved.

Some discussion occurred on the levels of perchlorate in groundwater at these sites. It was decided to send out a table of historical perchlorate levels at MMRP sites.

Programmatic

- Tulsa has put together an enforceable schedule based on the FFA
- Steve requested to see an informal copy of the schedule before it is officially submitted to EPA HQ. Army will consider the request.

USFWS Update

Environmental Restoration Issues with Transfer Schedule Impact. *None.*

Meeting Adjourned

Action Items

EPA—Topics for Discussion

- Forward perchlorate waste information on to Army

Shaw

- Submit September 2011 analytical results of LHAAP-18/24 monitoring wells sampling to EPA
- Forward master sampling schedule



**Status of Sites and Technical Documents
Longhorn Army Ammunition Plant – PBC Contract
October 25, 2011**

No.	Document in Progress	Submittal Date	Army	Regulator	Next Submittal	Expected Date	Army	Regulator	Comment Resolution	Status	Remarks
1	Preliminary Draft EE/CA, LHAAP-03	9/29/11	x							In Army's review	
2	Preliminary Draft Feasibility Study, LHAAP-04	2/03/11	x		Draft	11/15/11	x	x		Army comments received 10/24/11	
3	Record of Decision, LHAAP-16	9/30/11	x	x					Completed	Final. Awaiting signature page.	
4	Record of Decision, LHAAP-17	9/30/11	x	x					Completed	Final. Awaiting signature page	
5	DF Feasibility Study, LHAAP-18/24								In progress	Additional regulatory comments received.	
6	Record of Decision, LHAAP-29	9/30/11	x	x					In progress		
7	Draft Final Remedial Design, LHAAP-46	05/31/11	x	x	Final	09/30/11	x	x		Final	
8	Draft Final Remedial Design, LHAAP-50	6/21/11	x		Final	09/30/11	x	x		Final	
9	Draft Final Remedial Design, LHAAP-58	7/15/11	x		Final	09/30/11	x	x		Final	



**Status of Sites and Technical Documents
Longhorn Army Ammunition Plant – PBC Contract
October 25, 2011**

No.	Document in Progress	Submittal Date	Army	Regulator	Next Submittal	Expected Date	Army	Regulator	Comment Resolution	Status	Remarks
10	Draft Final LHAAP-12 RAO Report	2/10/11	x	x	Final	11/30/11	x	x	In progress		

**Perchlorate Results for Perimeter Well Sampling
Longhorn Army Ammunition Plant, Karnack, Texas**

Well ID	GW Res	Sep 2006	May 2007	Aug 2007	Dec 2007	Mar 2008	Sep 2008	May 2009	Sep 2009	Mar 2010	Sep 2010	Mar 2011	Sep 2011
LHPMW108	26	10 U		0.5U			2.5 U		1.2U		3.0U		0.100U
LHPMW110	26	10 U		10U			5.0 U		6.0U		dry		dry
LHPMW111	26	4 U		0.5U			0.5 U		0.30U		dry		dry
LHPMW112	26	5 U		3U			2.0 U		0.30U		3.0U		0.26
LHPMW133	26	1.08	1 U	1.09	0.5 U	0.5 U	0.5 U	0.47 J	0.32J	0.30U	0.32J	0.59	0.68
LHPMW134	26	0.708 J	1 U	0.949 J	0.5 U	0.5 U	0.829 J	0.40 J	0.30U	0.30U	0.45J	0.636	1.11

NOTES:

all units in µg/L

µg/L micrograms/liter

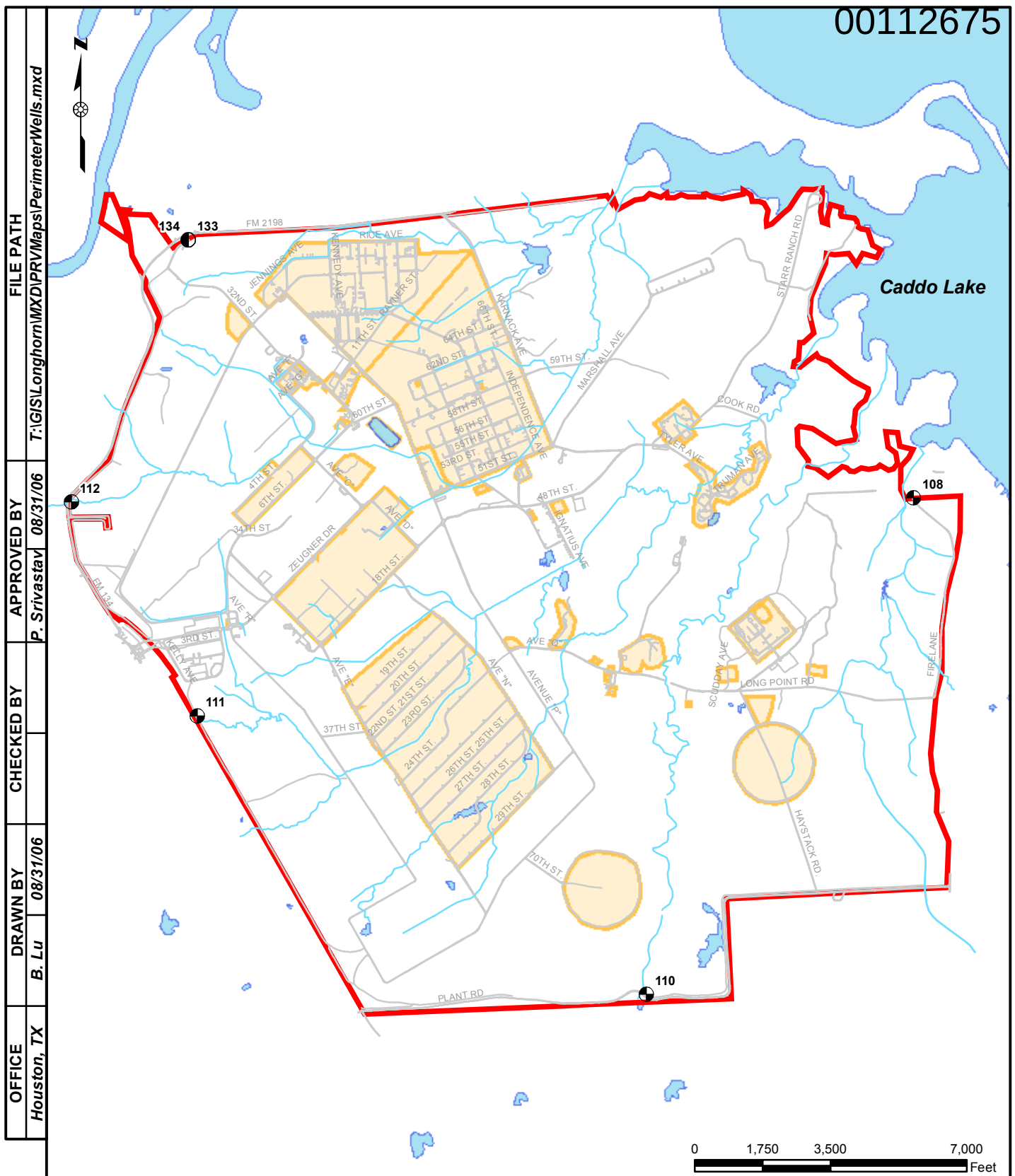
U undetected

J Present below normal reporting limit but greater than or equal to the MDL and the concentration is an approximate value.

L Result biased low.

MDL method detection limit

00112675



Plot Date: 08/06



U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
TULSA, OKLAHOMA

FIGURE 1

PERIMETER WELL LOCATION MAP

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Perchlorate Results for Creek Sampling
Longhorn Army Ammunition Plant, Karnack, Texas

Creek Sample ID	GW-Res	Jun 2008	Sep 2008	Dec 2008	May 2009	July 2009	Aug 2009	Sep 2009	Dec 2009	Mar 2010	Jun 2010	Sep 2010	Dec 2010	Mar 2011	Jun 2011	Sep 2011
GPW-1	26	0.5U	0.5U	0.22U	16	4U	NS	1.2U	3.7	1.3J	0.6U	dry	0.1U	8.7	dry	dry
GPW-3	26	9.42	1.1	0.22U	8.9	4U	NS	0.6U	2.8	1.8J	0.6U	dry	0.199J	0.673	dry	dry
HBW-1	26	0.5U	0.5U	0.22U	0.55U	4U	NS	1.5U	0.275U	1.5U	0.6U	dry	0.1U	0.2U	dry	dry
HBW-7	26	0.5U	0.5U	0.22U	0.55U	4U	24*	1.2U	0.275U	1.5U	0.6U	dry	0.1U	0.2U	dry	dry
HBW-10	26	0.5U	0.5U	0.22U	0.55U	4U	NS	1.5U	0.275U	1.2U	0.6U	dry	0.1U	0.2U	dry	dry

NOTES:

all units in micrograms/liter (µg/L)

* One sample taken during GWTP shutdown

U undetected

J approximate value present below normal reporting limit

GW-Res groundwater medium-specific concentration for residential use

NS not sampled

GP is Goose Prairie Creek

HB is Harrison Bayou

W is surface water

Creek Conditions for last five sampling events:

September 2010 conditions: All creek sampling locations were dry in September.

December 2010 conditions: GP sampling locations some water but no visible flow; HB sampling locations plenty of water volume but very little flow

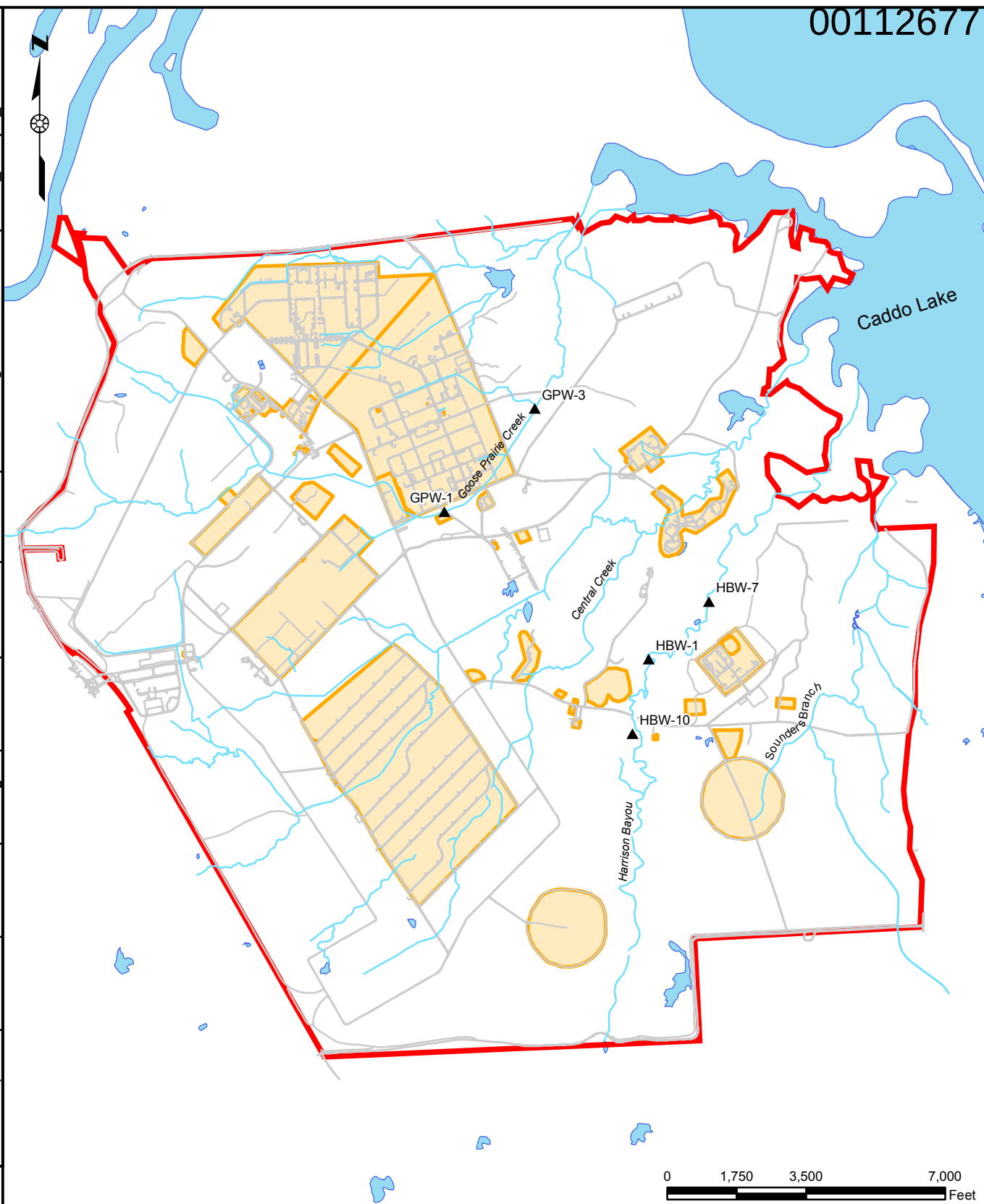
March 2011 conditions: GP sampling locations slow flow; HB sampling locations fairly good flow

June 2011 conditions: All creek sampling locations were dry in June.

September 2011 conditions: All creek sampling locations were dry in September.

00112677

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Legend

- ▲ Surface Water Sampling Location
- Stream
- Road
- Site
- Lake



U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
TULSA, OKLAHOMA

FIGURE 1

SURFACE WATER SAMPLING LOCATION

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Plot Date: 11/06



DEPARTMENT OF THE ARMY
LONGHORN ARMY AMMUNITION PLANT
POST OFFICE BOX 220
RATCLIFF, AR 72951

November 10, 2011

DAIM-ODB-LO

Mr. Stephen Tzhone
US Environmental Protection Agency
Superfund Division (6SF-AT)
1445 Ross Avenue
Dallas, TX 75202-2733

Re: Notification of Schedule Extension for Completion of LHAAP-29 ROD

Dear Mr. Tzhone,

The draft LHAAP-29 Record of Decision was submitted to EPA Region 6 and TCEQ on the 27th of June, 2011. The July 2011 Longhorn schedule shows a completion date for the LHAAP-29 ROD of November 2011. Army requests your concurrence on the delayed submittal of the LHAAP-29 draft final ROD for the following reasons:

1. EPA HQ requested that Army work with EPA Region 6 to determine a concentration of methylene chloride in groundwater that would trigger cessation of the in situ chemical oxidation remedy component and implementation of the MNA remedy component. Army concurs with that request but requires additional time to respond adequately.
2. The dispute over the LHAAP-16, LHAAP-17, and MMRP RODs is expected to delay finalization of the LHAAP-29 ROD until the dispute issues have been resolved.

Follow-on documents for the LHAAP-29 ROD will be impacted by this schedule change. As required by the FFA, within 21 days of the issuance of the Record of Decision, the Army shall propose a deadline date for completion of the Remedial Design Work Plan.

The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.zeiler@us.army.mil.

Sincerely,

A handwritten signature in black ink, reading "Rose M. Zeiler", is positioned below the "Sincerely," text.

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

Copies furnished:
Fay Duke, TCEQ



DEPARTMENT OF THE ARMY
LONGHORN ARMY AMMUNITION PLANT
POST OFFICE BOX 220
RATCLIFF, AR 72951

November 10, 2011

DAIM-ODB-LO

Ms. Fay Duke (MC-136)
SSDAT/Superfund Section
Remediation Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg D
Austin, TX 78753

Re: Notification of Schedule Extension for Completion of LHAAP-29 ROD

Dear Ms. Duke,

The draft LHAAP-29 Record of Decision was submitted to EPA Region 6 and TCEQ on the 27th of June, 2011. The July 2011 Longhorn schedule shows a completion date for the LHAAP-29 ROD of November 2011. Army requests your concurrence on the delayed submittal of the LHAAP-29 draft final ROD for the following reasons:

1. EPA HQ requested that Army work with EPA Region 6 to determine a concentration of methylene chloride in groundwater that would trigger cessation of the in situ chemical oxidation remedy component and implementation of the MNA remedy component. Army concurs with that request but requires additional time to respond adequately.
2. The dispute over the LHAAP-16, LHAAP-17, and MMRP RODs is expected to delay finalization of the LHAAP-29 ROD until the dispute issues have been resolved.

Follow-on documents for the LHAAP-29 ROD will be impacted by this schedule change. As required by the FFA, within 21 days of the issuance of the Record of Decision, the Army shall propose a deadline date for completion of the Remedial Design Work Plan.

The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.zeiler@us.army.mil.

Sincerely,

A handwritten signature in cursive script, reading "Rose M. Zeiler", is positioned below the "Sincerely," text.

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

Copies furnished:
Steve Tzhone, EPA Region 6

LONGHORN ARMY AMMUNITION PLANT
Karnack, Texas

MONTHLY MANAGERS' MEETING

AGENDA

DATE: Tuesday, November 15, 2011
TIME: 1:00 p.m..
PLACE: Teleconference. Call In Number Courtesy of
 Shaw: 866-797-9304/4155734

Welcome

RMZ

Action Items

EPA

- Forward perchlorate waste information on to Army
- Review/approve Final Installation-Wide Work Plan

TCEQ

- Review/approve Final Installation-Wide Work Plan

Shaw

- Submit September 2011 analytical results of LHAAP-18/24 monitoring wells sampling to EPA. Complete
- Forward master sampling schedule. Complete

Defense Environmental Restoration Program (DERP) PBC Update

PS

- Document Status/Environmental Sites (Table)
- Groundwater Treatment Plant

PROGRAMMATIC ISSUES – Dispute

EPA, TCEQ, Army

DERP Total Environmental Restoration Contract Update

Army

- LHAAP-37 Well Installation
- Pilot Demonstration at LHAAP-37 Status
- ITS Impact

MMRP Update

Army

- Levels of perchlorate in groundwater
- Update IRP Metals Issue

USFWS Update

RMZ/PB

- Environmental Restoration Issues with Transfer Schedule Impact
- USFWS Comments on Documents

Adjourn

ACRONYM LIST

DERP-	Defense Environmental Restoration Program
EPA-	Environmental Protection Agency
FS-	Feasibility Study
IRP-	Installation Restoration Program
ITS-	Intertek Testing Services
LHAAP-	Longhorn Army Ammunition Plant
MMRP-	Military Munitions Response Program
MNA-	Monitored Natural Attenuation
PB-	Paul Bruckwicki
PBC-	Performance Based Contract
PS-	Praveen Srivastav
QA-	Quality Assurance
QC-	Quality Control
RMZ-	Rose M. Zeiler
RD-	Remedial Design
ROD-	Record of Decision
SAP-	Sampling and Analysis Plan
TCEQ-	Texas Commission on Environmental Quality
USFWS-	United States Fish and Wildlife Service



Subject: **Draft Final Minutes, Monthly Managers Meeting,
Longhorn Army Ammunition Plant (LHAAP)**

Location of Meeting: **Teleconference**

Date of Meeting: **November 15, 2011; 1:00 PM – 2:00 PM**

Meeting Participants:

BRAC: Rose M. Zeiler
USACE-Tulsa: Aaron Williams, John Lambert
Shaw: Praveen Srivastav, Susan Watson
USEPA Region 6: Steve Tzhone, Paul Torcoletti
TCEQ: Fay Duke, Dale Vodak
USFWS: Paul Bruckwicki, Barry Forsythe

Welcome

Rose M. Zeiler

Action Item Status

EPA

- Forward perchlorate waste information on to Army. There is no action under this item. It was agreed to remove it from the agenda.
- Review/approve Final Installation-Wide Work Plan. EPA has provided comments to the Army. Shaw was not copied on the e-mail.

TCEQ

- Review/approve Final Installation-Wide Work Plan. Complete.

Shaw

- Submit September 2011 analytical results of LHAAP-18/24 monitoring wells sampling to EPA. Complete
- Forward master sampling schedule. Complete

Defense Environmental Restoration Program (DERP) PBC Update

Praveen Srivastav

Document Status/ Environmental Sites (Table)

- LHAAP-03: The EE/CA is in Army's review
- LHAAP-04: Submitted to regulators for review
- LHAAP-16 and 17 RODs: EPA and Army resolving outstanding issues.
- LHAAP-18/24 – Comment resolution pending.
- LHAAP-29: ROD – Comment resolution continuing.
- LHAAP-12 RA(O): Comment resolution continuing.
- Baseline Ecological Risk Assessment (BERA): TCEQ and EPA have provided their comments on the summary memo submitted by Shaw. Both agencies think that there are not enough data remaining after elimination of ITS data to make the BERA valid. Fay said that in Vicki Reat's opinion the BERA was done with a certain amount of data and now a large

amount of that data are taken out. It was decided to provide a response to regulator comments.

Groundwater Treatment Plant

The GWTP is functioning normally. The treated effluent water is being discharged to the burning ground (via sprinkler system) and injected in ICTs. Dale Vodak asked if there was ponding of water at the surface from the sprinkler system. Praveen replied that there is no ponding.

DERP Total Environmental Restoration Contract Update

Army

LHAAP-37 Demonstration Project

Tulsa Corps is waiting for funds from AEC. The demonstration project will not be a full-scale project at this time and will only be conducted on 5-6 wells because of funding limitations.

MMRP Update

Army

Status of ROD – Responses to comments are being resolved.

Some discussion occurred on the levels of perchlorate in groundwater at these sites. The Army has sent out a table of historical perchlorate levels at MMRP sites.

Programmatic

- The Army is addressing re-stated comments from the EPA/TCEQ on LHAAP-16 and 17 RODs. The intention is to resolve some of the straight forward comments before the dispute is raised to a higher level. These issues are mostly related to land use controls and checklist.
- The Army intends to write a letter to the RAB members once the issues are clearly identified. TCEQ and EPA input will be sought on the contents of the letter.

USFWS Update

Environmental Restoration Issues with Transfer Schedule Impact. Paul Bruckwicki stated that there were none.

USFWS Comments on Documents. Paul Bruckwicki stated that he had none.

Meeting Adjourned

Action Items

- None



**Status of Sites and Technical Documents
Longhorn Army Ammunition Plant – PBC Contract
November 11, 2011**

No.	Document in Progress	Submittal Date	Army	Regulator	Next Submittal	Expected Date	Army	Regulator	Comment Resolution	Status	Remarks
1	Preliminary Draft EE/CA, LHAAP-03	9/29/11	x							In Army's review	
2	Preliminary Draft Feasibility Study, LHAAP-04	2/03/11	x		Draft Final	11/16/11	x	x		Army comments received and resolved. DF in progress.	
3	DF Feasibility Study, LHAAP-18/24								In progress	Additional regulatory comments received.	
4	Record of Decision, LHAAP-29	9/30/11	x	x					In progress		
5	Draft Final LHAAP-12 Years 1&2 RAO Report	2/10/11	x	x	Final	12/15/11	x	x	In progress	Resolution of regulatory comments in progress	
6	Preliminary Draft LHAAP-12 Year 3&4 RAO Report	8/02/11	x	x	Draft	12/15/11	x	x	In progress	Resolution of Army comments in progress	

Soil Sampling Summary LHAAP-18/24:

Three metals exceeded MSC Soil-GWP-Ind in surface soil; Arsenic, Beryllium and Lead. Two metals exceeded MSC Soil-GWP-Res in surface soil; Manganese and Vanadium. Perchlorate only had 2 sample results exceeding MSC Soil-GWP-Res and both of these results were at the depth water was encountered. Though TCE had 8 sample results exceeding MSC Soil-GWP-Res, only 2 of the sample results were above the water encounter depth and significantly above the TCE MSC Soil-GWP-Ind.

Event: 10 Shallow samples, 8 Soil borings

Arsenic exceeded MSC Soil-GWP-Ind in all 18 surface soil samples (0.5-2ft)

Beryllium exceeded MSC Soil-GWP-Ind in 9 of 18 surface soil samples (0.5-2ft)

Lead exceeded MSC Soil-GWP-Ind in all 18 surface soil samples (0.5-2ft)

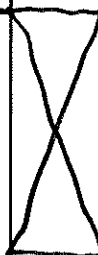
Manganese exceeded MSC Soil-GWP-Res in 9 of 18 surface soil samples (0.5-2ft)

Vanadium exceeded MSC Soil-GWP-Res in 4 of 18 surface soil samples (0.5-2ft)

Perchlorate exceeded MSC Soil-GWP-Res in 2 of 14 samples (both at water encounter depth)

TCE exceeded MSC Soil-GWP-Ind in 8 of 14 samples (4 of which were at water encounter depth [~20-22 ft bgs] and only 2 of the 4 samples above the water encounter depth [~10-12 ft bgs] were significantly above the TCE MSC Soil-GWP-Ind)

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED ☒	
4. HOLE NO. (as shown on drawing title and file number) 18SB01				12. MANUFACTURER'S DESIGNATION OF DRILL 6616 D7			
5. NAME OF DRILLER Billy Ragor				13. ELEVATION GROUND WATER NR		14. DATE HOLE 08/20/2011	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ 0% DEG. FROM VERT.				15. ELEVATION TOP OF HOLE NR		16. TOTAL CORE RECOVERY FOR BORING _____ %	
7. TOTAL DEPTH OF HOLE 25'				17. LOGGED BY Allen Willmore		QC	
8. SIZE AND TYPE OF BIT DPT 2"							
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			TOP SOIL, SILT SAND, SILTY	100%		8/29/11 Augered hole DPT NEXT TO HOLE, - COLLECTED SAMPLE # 0745 (0.5-2)	
			CLAY, SILTY, STIFF, LOW PLASTICITY, BROWN, NO ODOR, DRY	20%			
0.0	5		BECOMES SOFT, MORE SILTY, GRAY TO BROWN, MORE PLASTICITY, MORE ORGANIC, DRY	100%			
0.4	10			100%		- COLLECTED SAMPLE # 0805 (10-12)	

BORING LOG (cont sheet)		ELEVATION TOP OF HOLE NR		SHEET 2 OF 2 SHEETS		
1. PROJECT LHAAP-18/24 Soil Investigation			2. INSTALLATION Longhorn Army Ammunition Plant			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE f	REMARKS g
0.4	15		AS ABOVE 6" SAND 30PM MOIST CLAY, SILTY, BROWN TO GRAY, HIGH TO MEDIUM PLASTICITY, DRY, NO odor	100%		
0.6	20			100%		
2.4	25		WATER ENCOUNTERED, SAND, CLAYEY, BROWN, DENSE, MOIST TO WET, NO odor	100%		0835 COLLECTED SAMPLE 20-22
	30		END OF BORING			

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED ☒	
4. HOLE NO. (as shown on drawing title and file number) 18SB02				12. MANUFACTURER'S DESIGNATION OF DRILL 6610 DT			
5. NAME OF DRILLER Bluy RAGON				13. ELEVATION GROUND WATER NR			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 25'				15. ELEVATION TOP OF HOLE NR			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING NR %			
17. LOGGED BY Allen Willmore				QC			
PID (ppm)	DEPTH	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	SAMPLE	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)		
a	b	d	e	f	g		
0.0	20'	TOPSOIL, CLAY, ORGANIC, DARK BROWN, DRY CLAY, SILTY, STIFF, LOW PLASTICITY, BROWN, NO ODOR, DRY		X	0210 - COLLECTED SAMPLE (0.5-2) + DUPE 1 + MS/MSD		
0.0	100'						
0.0	100'			X	0420 - COLLECTED SAMPLE (0-12)		

BORING LOG (cont sheet)		ELEVATION TOP OF HOLE NR		SHEET 2 OF 2 SHEETS		
1. PROJECT LHAAP-18/24 Soil Investigation			2. INSTALLATION Longhorn Army Ammunition Plant			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE f	REMARKS g
0.1	15			100%		
0.1	20		← BECOMES SOFT MORE SILTY GRAY TO BROWN, MORE PLASTICITY MORE ORGANIC, DRY	100%		
0.2	25		SAND, SILTY, BROWN, MOD. DENSE, WET, NO ODOR	100%		COLLECTED SAMPLE 18SD02 (20-22) @ 0920
	30		END OF BORING AT 25' B45			

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB03				12. MANUFACTURER'S DESIGNATION OF DRILL 6610 DT		13. ELEVATION GROUND WATER NR	
5. NAME OF DRILLER Billy Ragon				14. DATE HOLE		STARTED 08/30/2011	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				15. ELEVATION TOP OF HOLE NR		COMPLETED 08/30/2011	
7. TOTAL DEPTH OF HOLE 15'				16. TOTAL CORE RECOVERY FOR BORING N/A %			
8. SIZE AND TYPE OF BIT 2" DPT				17. LOGGED BY Allen Willmore		QC	
PID (ppm)	DEPTH	USCS	CLASSIFICATION OF MATERIALS (description)	% CORE RECOVERY	SAMPLE	REMARKS (drilling time, water loss, depth of weathering, etc., if significant)	
a	b	c	d	e	f	g	
0.4			TOPSOIL, CLAY, DARK GRAY CLAY, SILTY, SOFT, BROWN, DRY, No odor		X	1340 - COLLECTED SAMPLE AT (0.5-2)	
2.1	5						
	10						
6.8			SAND, SILTY, BROWN TO GRAY, WET, DENSE, No odor.		X	1350 - COLLECTED SAMPLE AT (10-12)	
					X	1405 - COLLECTED SAMPLE AT (12-13)	

BORING LOG (cont sheet)			ELEVATION TOP OF HOLE NR		SHEET 2 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation			2. INSTALLATION Longhorn Army Ammunition Plant			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE f	REMARKS g
			AS ABOVE			
	15		END OF PILING @ 15' BGS			
	20					
	25					
	30					

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED ☒	
4. HOLE NO. (as shown on drawing title and file number) 18SB04				12. MANUFACTURER'S DESIGNATION OF DRILL 6610 DT			
5. NAME OF DRILLER Billy Bacon				13. ELEVATION GROUND WATER NR		14. DATE HOLE STARTED 08/30/2011 COMPLETED 08/30/2011	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ 0% DEG. FROM VERT.				15. ELEVATION TOP OF HOLE NR			
7. TOTAL DEPTH OF HOLE 15' 00"				16. TOTAL CORE RECOVERY FOR BORING NR %			
8. SIZE AND TYPE OF BIT 2" DPT				17. LOGGED BY Allen Willmore QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.4			TBD SOIL CLAY, SILTY, SOFT, BROWN, IRON STAINING, NO ODOR			8/29/11 Augered Hole DPT NEXT TO HOLE 1545 - COLLECTED SAMPLE AT (0.5-2)	
10.1	5		- BECOMES HARD, ORGANIC GRAY TO BLACK				
17.4	10		SAND, SILTY, GRAY, WET, NO ODOR.			1510 - COLLECTED SAMPLE AT (10-12)	

BORING LOG (cont sheet)			ELEVATION TOP OF HOLE NR		SHEET <u>2</u> OF <u>2</u> SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation			2. INSTALLATION Longhorn Army Ammunition Plant			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE f	REMARKS g
17.4	15		As Above	~~100%~~	~~15'~~	15:24 - COLLECTED SAMPLE AT (B-14)
	20		CND OF BORING AT 15' BGS			
	25					
	30					

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED ☒	
4. HOLE NO. (as shown on drawing title and file number) 18SB05				12. MANUFACTURER'S DESIGNATION OF DRILL 6616 DT			
5. NAME OF DRILLER BUT RAOON				13. ELEVATION GROUND WATER NR		14. DATE HOLE 08/30/2011	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				15. ELEVATION TOP OF HOLE NR		16. TOTAL CORE RECOVERY FOR BORING NR %	
7. TOTAL DEPTH OF HOLE 15'				17. LOGGED BY Allen Willmore		QC	
8. SIZE AND TYPE OF BIT 2"							
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.4			TOPSOIL CLAY, SILTY, SOFT BROWN, IRON STAINING, NO ODOOR			1435- COLLECTED SAMPLE (0.5-2)	
4.1	5		- BECOMES HARD, ORGANIC, GRAY TO BLACK				
13.2	10		SAND, SILTY, GRAY, WET, NO ODOOR			1445 - COLLECTED SAMPLE @ (9-10)	

BORING LOG (cont sheet)			ELEVATION TOP OF HOLE NR			SHEET 2 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation			2. INSTALLATION Longhorn Army Ammunition Plant				
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE f	REMARKS g	
13.2	15		AS ABOVE				
	20		END OF BORING @ 15' ALS				
	25						
	30						

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTTL				11. OVERBURDEN SAMPLES		DISTURBED ☒ UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SBOL				12. MANUFACTURER'S DESIGNATION OF DRILL 6610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER NR		14. DATE HOLE 08/31/2011	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				15. ELEVATION TOP OF HOLE NR			
7. TOTAL DEPTH OF HOLE NR				16. TOTAL CORE RECOVERY FOR BORING NR %			
8. SIZE AND TYPE OF BIT 2 1/2				17. LOGGED BY Allen Willmore		QC	
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.1	0		TOPSOIL SILTY CLAY DARK BROWN TO GRAY CLAY, SILTY, BROWN, STIFF, LOW PLASTICITY, DRY NO MOISTURE			COLLECTED SAMPLE @ (0.5-2) @ 1130	
0.6	5		- MORE Fe CONTENT, NODULES - ORGANIC CONTENT				
1.4	10					COLLECTED SAMPLE @ (10-12) @ 1145 [Take Dup 03]	

BORING LOG (cont sheet)		ELEVATION TOP OF HOLE NR			SHEET 2 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation			2. INSTALLATION Longhorn Army Ammunition Plant			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE f	REMARKS g
1.4	15		AS ABOVE			
2.1	20		WATER ENCOUNTER @ 16-17' bgs @ 1200			
	25		END OF BORING @ 20' BGS			
	30					

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED ☒	
4. HOLE NO. (as shown on drawing title and file number) 18SB07				12. MANUFACTURER'S DESIGNATION OF DRILL 666 D7			
5. NAME OF DRILLER Bry Pagon				13. ELEVATION GROUND WATER NM			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ 0% DEG. FROM VERT.				14. DATE HOLE 08/30/2011		STARTED COMPLETED 08/30/2011	
7. TOTAL DEPTH OF HOLE 10'				15. ELEVATION TOP OF HOLE NA			
8. SIZE AND TYPE OF BIT 2" DPT				16. TOTAL CORE RECOVERY FOR BORING NM %			
17. LOGGED BY Allen Willmore				QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.3			Topsoil: Roadfill - ROADFILL CLAYEY RED SAND.			Collected Sample @ 0.5-2 1310	
			CLAY, SILTY, BROWN, SOFT, MEDIUM P HIGH PLASTICITY.	100%			
	5						
			- DECOMPOSED M-1300	100%			
2.1			SAND, SILTY, GRAY, WET			BIS - COLLECTED SAMPLE @ (9-10)	
	10		END OF BORING @ 10' BG				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED ☒	
4. HOLE NO. (as shown on drawing title and file number) 18SB08				12. MANUFACTURER'S DESIGNATION OF DRILL 6610 DT		UNDISTURBED ☒	
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER NR		14. DATE HOLE	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ 0% _____ DEG. FROM VERT.				15. ELEVATION TOP OF HOLE NR		STARTED 08/20/2011	
7. TOTAL DEPTH OF HOLE 20'				16. TOTAL CORE RECOVERY FOR BORING NR %		COMPLETED 08/26/2011	
8. SIZE AND TYPE OF BIT 2" DPT				17. LOGGED BY Allen Willmore		QC	
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.1			TOPSOIL, CLAY CLAY, SANDY, REDDISH-BROWN, HARD DRY, NO ODOR DET			14.5' COLLECTED SAMPLE @ (0.5 - 2)	
2.3	5						
4.1	10		BECOMES LESS REDDISH STIFF, BROWN, MORE CLAYEY			16.30' COLLECTED SAMPLE @ (10.30 - 12)	

BORING LOG (cont sheet)			ELEVATION TOP OF HOLE NR		SHEET 2 OF 2 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation			2. INSTALLATION Longhorn Army Ammunition Plant			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE f	REMARKS g
9.1	15		AS ABOVE.			
3.9	20		~~WATER~~ SAND, SILTY, BROWN, M-D DENSITY, WET, NO ODOOR			1040- (ALLEGED) SAMPLE @ 16.5-17.5 [Took DUP 02]
	25		END OF BORINGS @ 20'			
	30					

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 0510 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING %			
17. LOGGED BY Allen Willmore				QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.3			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		0900- COLLECTED SAMPLE	
			END OF BORING AT 2.01 BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 0610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ 12011 COMPLETED 08/ 12011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2'				16. TOTAL CORE RECOVERY FOR BORING %			
17. LOGGED BY Allen Willmore				QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.1			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		0940 - Collected Sample	
			END OF BORING AT 2.0' BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL DPT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING %			
17. LOGGED BY Allen Willmore				QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		1025' COLLECTED SAMPLE	
			END OF BORING AT 20' BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 0610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING %			
				17. LOGGED BY Allen Willmore		QC	
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		1105 - COLLECTED SAMPLE	
			END OF BORING AT 2.01 BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 0610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ 12011 COMPLETED 08/ 12011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING %			
				17. LOGGED BY Allen Willmore QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.1			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		1125 - COLLECTED SAMPLE	
			END OF BORING AT 2.01 BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 0510 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING %			
				17. LOGGED BY Allen Willmore QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.2			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		12.66 - COLLECTED SAMPLE	
			END OF BORING AT 2.01 BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 6610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING %			
				17. LOGGED BY Allen Willmore QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.1			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		1235- COLLECTED SAMPLES	
			END OF BORING AT 2.0' BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 0610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING %			
				17. LOGGED BY Allen Willmore		QC	
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		1310 - COLLECTED SAMPLES	
			END OF BORING AT 2,01 BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 0610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING _____ %			
17. LOGGED BY Allen Willmore				QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
0.2			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		100% COLLECTED SAMPLES	
			END OF BORING AT 2.0' BGS				

BORING LOG		DIVISION Federal		INSTALLATION Longhorn Army Ammunition Plant		SHEET 1 OF 1 SHEETS	
1. PROJECT LHAAP-18/24 Soil Investigation				9. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
2. LOCATION Longhorn AAP (LHAAP-18/24)				10. MANUFACTURER'S DESIGNATION OF DRILL DPT			
3. DRILLING AGENCY ETTL				11. OVERBURDEN SAMPLES		DISTURBED UNDISTURBED ✓	
4. HOLE NO. (as shown on drawing title and file number) 18SB				12. MANUFACTURER'S DESIGNATION OF DRILL 6610 DT			
5. NAME OF DRILLER Billy Ragon				13. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ 0% DEG. FROM VERT.				14. DATE HOLE		STARTED 08/ /2011 COMPLETED 08/ /2011	
7. TOTAL DEPTH OF HOLE 2'				15. ELEVATION TOP OF HOLE			
8. SIZE AND TYPE OF BIT DPT 2"				16. TOTAL CORE RECOVERY FOR BORING _____ %			
17. LOGGED BY Allen Willmore				QC			
PID (ppm) a	DEPTH b	USCS c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	SAMPLE f	REMARKS (drilling time, water loss, depth of weathering, etc., if significant) g	
6.3			TOPSOIL, SILT, VEGETATION SAND, SILTY, BROWN, MODERATE DENSITY, DRY.	100%		1510 - COLLECTED SAMPLES + MS/MO DUP 04	
			END OF BORING AT 20' BGS				



Shaw® Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Chain of Custody

00112711
NO. 6017

Laboratory Name: <u>ACCUTEST</u>		Address: <u>158 Starlite Drive</u> <u>Morristown, Ohio</u>		Contact: <u>Stephanie Mossburg</u>										
Project Name: <u>LHAAP</u>		Project Location: <u>Karnak, TN</u>		Analysis and Method Desired (Indicate separate containers)										
Project No.: <u>117591-0005B100</u>		Project Contact: <u>Don Hoang</u>		Project Telephone No.: <u>713 281-531-3108</u>										
Point of Contact: <u>Allen Wilkmore</u>		Project Manager/Supervisor: <u>Praveen Srivastava</u>		Telephone No.: <u>713 247 9292</u>										
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	Petroleum	VOCs	Metals	Explosives	Persistent Solids	Remarks
1	185B09 (0.5-Z)	8/31/11	0900		✓	S		6	✓	✓	✓	✓	✓	
2	185B10 (0.5-Z)	8/31/11	0940		✓	S		6	✓	✓	✓	✓	✓	
3	185B11 (0.5-Z)	8/31/11	1025		✓	S		6	✓	✓	✓	✓	✓	
4	185B12 (0.5-Z)	8/31/11	1105		✓	S		6	✓	✓	✓	✓	✓	
5	185B13 (0.5-Z)	8/31/11	1125		✓	S		6	✓	✓	✓	✓	✓	
6	185B14 (0.5-Z)	8/31/11	1200		✓	S		6	✓	✓	✓	✓	✓	
7	185B15 (0.5-Z)	8/31/11	1235		✓	S		6	✓	✓	✓	✓	✓	
8	185B16 (0.5-Z)	8/31/11	1310		✓	S		6	✓	✓	✓	✓	✓	
9	185B17 (0.5-Z)	8/31/11	1400		✓	S		6	✓	✓	✓	✓	✓	
10	185B18 (0.5-Z) + MS/MSD	8/31/11	1510		✓	S		6	✓	✓	✓	✓	✓	MS/MSD INITIALS
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions						
<u>[Signature]</u>		8/31/11 1600												
								FedEx Airbill No.:						
								Sampler's Signature <u>[Signature]</u>						
TAT: _____ Standard _____ Rush Date _____ Seals Intact? _____ Y _____ N Received Good Condition _____ Y _____ N _____ Cold														



00112712

Laboratory Name: MICROBAC				Address: 158 STARLITE DRIVE MARIETTA, OH				Contact: STEPHANIE WISBURN							
Project Name: LHAAP				Project Location: KARNACK, TN				Analysis and Method Desired (Indicate separate containers)				Remarks			
Project No.: 117501.00058100				Project Contact: JEN HOANG		Project Telephone No.: 281 531 3108		Number of Containers Voc							
Point of Contact: ALLEN WILLMORE				Project Manager/Supervisor: PRAVEEN SRIVASTAVA		Telephone No.: (713) 247-9292									
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description; Location								
1	TB-003011-01	9/30/11	--		✓	W			X						
2															
3															
4															
5															
6															
7															
8															
9															
10															
Transfers Relinquished By (signature)				Date/Time		Transfers Accepted By (signature)				Date/Time		Special Instructions			
M. M. L.				9/30/11 1000											
												FedEx Airbill No.:			
						Laboratory						Sampler's Signature M. M. L.			
TAT: _____ Standard _____ Rush Date _____				Seals Intact? _____ Y _____ N				Received Good Condition _____ Y _____ N _____ Cold							

White - Lab Copy Canary - Field Copy Pink - File Copy

Form Number: 433 2

Rev. 10-19-07



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Houston, TX 77042
(713) 996-4400

Chain of Custody

00112713

NO. 6073

Laboratory Name: <u>MICROBAC</u>		Address: <u>158 STARLITE</u> <u>MARIETTA, OHIO</u>		Contact: <u>STEPHANIE MOSEBURG</u>									
Project Name: <u>LHAAP</u>		Project Location:		Analysis and Method Desired (Indicate separate containers)									
Project No. <u>117591-005R100</u>		Project Contact: <u>JEN HOANG</u>		Project Telephone No. <u>281-531-2108</u>									
Point of Contact: <u>ALLEN WILLMORE</u>		Project Manager/Supervisor: <u>PRAVEEN SRIVASTAV</u>		Number of Containers									
Telephone No. <u>(713) 247-9292</u>													
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Perchlorate	VOC	Metals	Explosives	Pest. Subst.	Remarks
1	185B07 (0.5-2)	8/3/11	1316		✓	S		X	X	X	X	X	
2	185B07 (4-10)	8/3/11	1315		✓	S		X	X			X	
3	185B03 (0.5-2)	8/3/11	1340		✓	S		X	X	X	X	X	
4	185B03 (10-12)	8/3/11	1350		✓	S		X	X			X	
5	185B03 (12-13)	8/3/11	1405		✓	S		X	X			X	
6	185B05 (0.5-2)	8/3/11	1435		✓	S		X	X	X	X	X	
7	185B05 (9-10)	8/3/11	1415		✓	S		X	X	X	X	X	No METALS / HAPs
8	185B04 (0.5-2)	8/3/11	1505		✓	S		X	X	X	X	X	
9	185B04 (10-12)	8/3/11	1510		✓	S		X	X			X	
10	185B04 (13-14)	8/3/11	1520		✓	S		X	X			X	
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions					
<u>M. J. M. - 1000</u>		<u>8/3/11</u>											
								FedEx Airbill No.:					
				Laboratory				Sampler's Signature <u>M. J. M. -</u>					
TAT: _____ Standard _____ Rush Date _____													
Seals Intact? _____ Y _____ N													
Received Good Condition _____ Y _____ N _____ Cold													

06/20/2011 LHAAP-46

10:30 Arrived on-site.

11:30 Tailgate Safety,
gathered supplies, verified
work plan.

12:30 Logged temp
wells. Pulled all casing

13:00 Started Sampling/
set up on 46 DPT04.

13:00 Started Sampling/
set up on 46 DPT08.

14:45 Clean all sites.

Returned to GWTP.

17:00 15:30 Off site

06/20/2011

Ala

105

WEATHER: CLOUDY, 70s

00112714

SOIL SAMPLING @ LHAAP 18/24

1200 - ARRIVED @ LHAAP 18/24 MET DRILLERS

FROM ETC BULLY RAGON

1300 - PERFORMED TAILGATE HOS MEETING.

1345 - BEGAN GATHERING MATERIALS TO

BEGIN AUGERING.

1430 - BEGAN AUGERING 18SB01 THRU
18SB20.

1430 - LEFT SITE.

9/29/11

106

SAMPLE ID	DATE	1st hr 0-2' / min	2nd / time	3rd / time	DUP
18SB01	8/30/11	(0.5-2) 0745	(10-12) 0805	(22-22) 0835	N
18SB02	8/30/11	(0.5-2) 0700	(10-12) 0920	(19-22)	Y
18SB03	8/30/11	(0.5-2) 1340	(10-12) 1350	(12-13) 1405	N
18SB04	8/30/11	(0.5-2) 1305	(10-12) 1510	(13-14) 1520	N
18SB05	8/30/11	(0.5-2) 1435	(9-10) 1445	No SAMPLE	N
18SB06	8/30/11	(0.5-2) 11:35	(10-12) 1145	(16-17) 1200	Y
18SB07	8/30/11	(0.5-2) 1310	(9-10) 1330	No SAMPLE	N
18SB08	8/30/11	(0.5-2) 10:15	(10-12) 10:30	(16.5-17.5) 1040	Y
18SB09	8/31/11	0900	NA	NA	N
18SB10	8/31/11	0940			N
18SB11	8/31/11	1025			N
18SB12	8/31/11	1105			N
18SB13	8/31/11	1125			N
18SB14	8/31/11	1200			N
18SB15	8/31/11	1235			N
18SB16	8/31/11	1316			N
18SB17	8/31/11	1406			N
18SB18	8/31/11	1510			Y

* All BORINGS FROM 18SB09 - 18SB18 WERE ONLY SAMPLED AT (0.5-2')

107

8/30/11

SOIL SAMPLING @ 18/24

LOOS clear

0650 - ARRIVE @ SITE

0700 - Performed Tailgate H+S Meeting

0730 - Mobilized to 18SB01

0735 - BEGAN Advancing @ 18SB01

0855 - Began Advancing @ 18SB02

0950 - Roy Long (USACE ARRIVER)

1010 - Began Advancing 18SB03

* SHALLOW BORINGS - SOIL (0.5-2.0)

WAS SENT IN TO BE ANALYZED FOR

Perchlorate, Explosives, metals, & VOCs

* Deeper for Perchlorate, VOCs

* Proper Sop was followed for decontam
b/w each hulk (3-part rinse) for both
days. Drill rods decontam

* Soil LDW was placed back into hole.

1125 - Began Advancing 18SB06

1300 - Began Advancing 18SB07

1335 - Began Advancing 18SB03.

1430 - Began Advancing 18SB05

1500 - Began Advancing 18SB04.

1525 - Roy Long LEAVING SITE.

1630 - Began Picking Samples

1715 - LEFT SITE.

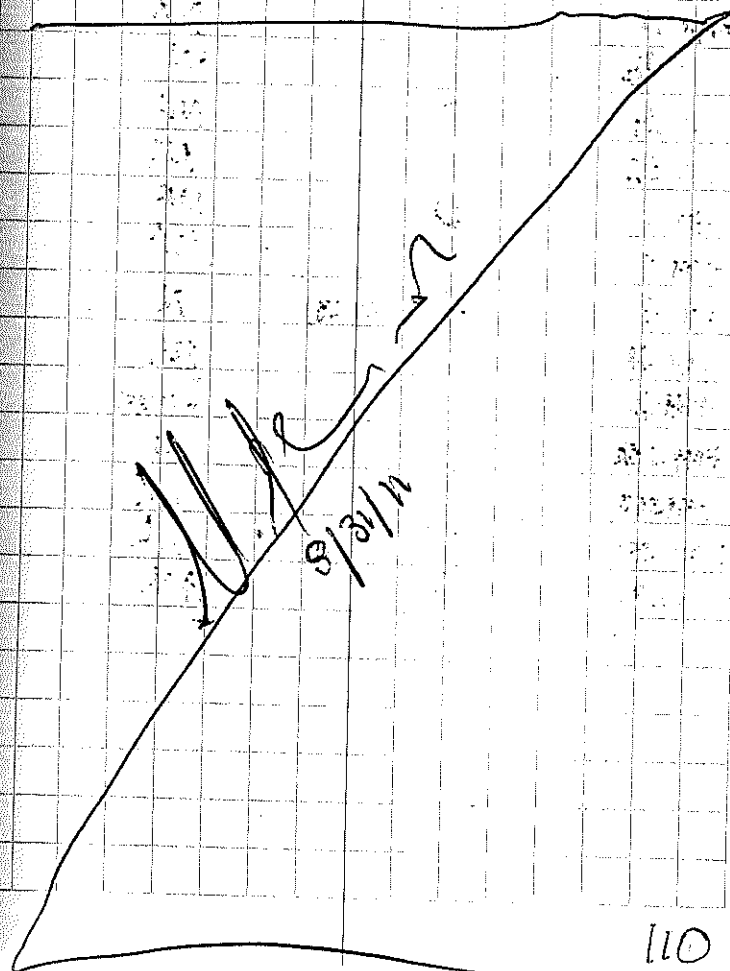
8/30/11

108

	From	DUPES / MS-MSDs
DUP01	185B02	(0.5-2)
MS/MSD	185B02	(0.5-2)
DUP02	185B08	(16.5-17.5)
DUP03	185B06	(10-12)
DUP04	185B18	(0.5-2)
MS/MSD	185B18	(0.5-2)

109

8/31/11 Sox Sampling At 19/24
 0700 - Arrived @ Site
 0720 - Performed H+S meeting / inspection
 0800 - Roy Lima Arrives from USAF
 0810 - Mobilized to begin sampling
 * See chart on page 107 for details
 1700 - Left Site.



110

9/1/11

Drum Inventory

SITE	# OF DRUMS	OBSERVED	Labelled
LHAAP-03	4		N
LHAAP-04	0		NA
LHAAP-08	0		NA
LHAAP-12	0		NA
LHAAP-16	0		NA
LHAAP-17	0		NA
LHAAP-18	0		NA
LHAAP-29	0		NA
LHAAP-32	0		NA
LHAAP-49	0		NA
LHAAP-50	0		NA
LHAAP-47	4 (47WWS3)		N
LHAAP-48	7		NA
LHAAP-46	1		Dumped
LHAAP-35A	0		NA
LHAAP-35B	0		NA
LHAAP-35C	0		NA
Pistol R.	0		NA

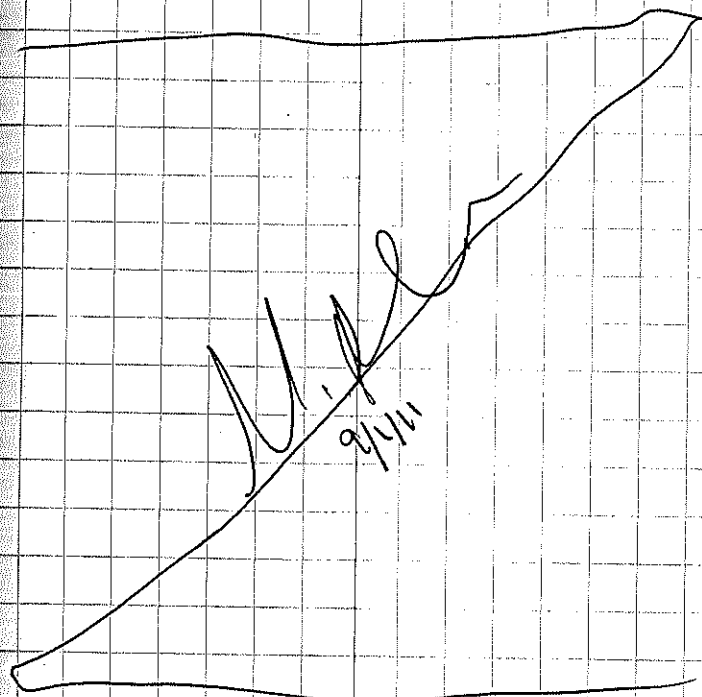
U. A. P.
9/1/11

111

* GENERAL NOTES:

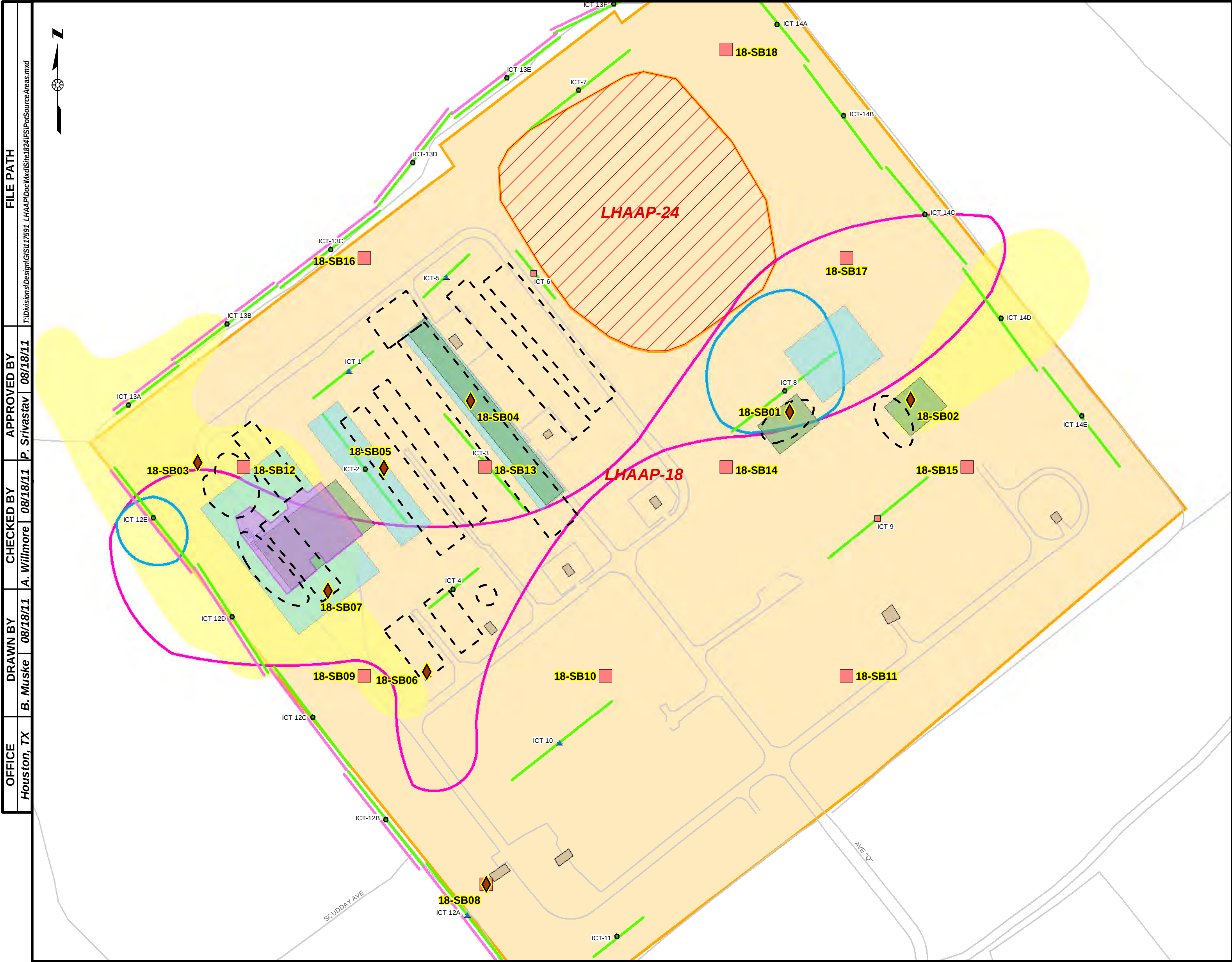
ALL DOWNHOLE EQUIPMENT WAS
DECONDED VIA 3-PART WASH/RINSE
PER SOP

SOIL CUTTINGS WERE PLACED BACK
DOWNHOLE IN SEQUENCE IT WAS
DRILLED.



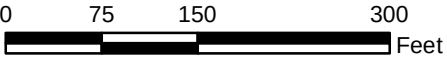
U. A. P.
9/1/11

112



LEGEND

- Shallow Soil Samples (11)
- Soil Borings (8)
- ICT Sump
- ICT Sump Deactivated
- Injection Point
- Proposed IRA Soil Excavation Area (DEI, 1995)
- Possible Completed IRA Soil Excavation Area (Jacobs, 2002)
- HDPE Liner Installed on the Outside of the ICT
- ICT Location
- Former Building or Concrete Slab
- Road
- Source Units (USACE, 1993)
- Air Curtain Destructor Base Excavation (USACE, 1993)
- 1987 Soil and Gas Survey > 1 µg/L (USACE, 1993)
- TCE - Above 11,000 (2010)
- MC - Above 200,000 (2010)
- Unlined Evaporation Pond Closed in 1986 (KSA, 1986)
- Site



U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
TULSA, OKLAHOMA

FIGURE 1-11

POTENTIAL SOURCE AREAS
LHAAP-18/24 FEASIBILITY STUDY

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Muske	A. Willmore	P. Srivastav	T:\Divisions\Design\GIS\117591_LHAAP\Doc\Mxd\Site\1824\FSPoSourceAreas.mxd

Master Groundwater Sampling Schedule
Longhorn Army Ammunition Plant

Updated: 11/03/11

				2011												2012											
		Last Date Sampled	Next Event*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
LHAAP-12																											
12MW20	on site - near well 24	6/7/11	Jun-12						VOCs												VOCs						
12WW21	on site - downgradient	6/7/11	Jun-12						VOCs												VOCs						
12WW22	compliance northeast	6/7/11	Jun-12						VOCs												VOCs						
12WW23	compliance - northwest	6/7/11	Jun-12						VOCs												VOCs						
12WW24	on site - near source	6/7/11	Jun-12						VOCs												VOCs						
LHAAP-16 (Interim Action)																											
EW-01	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-02	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-03	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-04	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-05	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-06	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-07	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-08	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
LHAAP-17																											
TBD																											
LHAAP-18/24 (Inteirm Action)																											
ICT-2	west, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-4	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-7	north, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-8	east, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-11	south, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12B	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12C	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12D	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12C	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12E	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
EW-01	annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-13A	west, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-13B	NW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-13D	NW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-13E	north, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-13F	north, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-14B	NE, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-14C	NE, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-14D	NE, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
18WW07	north	11/10/05	SAN																								
18WW08	north, semi-annual	09/15/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
18WW09	north, semi-annual	09/15/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
18WW10	west, semi-annual	09/14/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
18WW11	west, semi-annual	3/16/11	Mar-12																								
18WW17	east	11/17/05	SAN																								
18WW20	north, semi-annual	09/14/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
18WW21	NE	11/10/05	SAN																								
C-01	south	11/10/05	SAN																								
C-02	NW, semi-annual	3/17/11	Mar-12																								
C-04	NE, semi-annual	09/12/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
C-04A	SAN	5/11/06	SAN																								
C8	east, semi-annual	09/12/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
MW-1	inside CT perimeter	5/11/06	SAN																								
MW-2	inside CT perimeter, semi-annual	9/21/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
MW-3	inside CT perimeter	5/11/06	SAN																								
MW-4	inside CT perimeter	5/11/06	SAN																								
MW-6	inside CT perimeter	5/11/06	SAN																								
MW-9	inside CT perimeter	5/11/06	SAN			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
AWD1	west along CT	9/13/11	SAN			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
AWD3	inside CT perimeter	9/13/11	SAN			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM						VOCs,Cl,P,TM				
AWD2	inside CT perimeter	5/11/06	SAN																								
AWD4	north	9/13/11	SAN																								
MW-5	inside CT perimeter	5/11/06	SAN																								
MW-7	inside CT perimeter	9/20/11	SAN			VOCs,Cl,P,TM						VOCs,Cl,P,TM															

Master Groundwater Sampling Schedule
Longhorn Army Ammunition Plant

Updated: 11/03/11

				2011												2012											
Site/Well ID	Well description	Last Date Sampled	Next Event*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
MW-129	west, along CT	9/21/11	SAN																								
C9	south, semi-annual	3/14/11	Mar-12																								
C-10	south	5/11/06	SAN																								
C6	2100 ft north of site, semi-annual	9/12/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM				
C3	east, semi-annual	9/12/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM				
LHAAP-29																											
TBD																											
LHAAP-37																											
TBD																											
LHAAP-46																											
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Creek Sampling (LHAAP-47/50)																											
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108		9/28/11	Sep-12									P											P				
110		9/11-dry	Sep-12									P											P				
111		9/11-dry	Sep-12									P											P				
112		9/28/11	Sep-12									P											P				
133		9/28/11	Mar-12			P						P						P					P				
134		9/28/11	Mar-12			P						P						P					P				
Ongoing Creek Sampling (Harrison Bayou & Goose Prairie Creek)																		P					P				
HBW-1	Harrison Bayou Water	9/11-dry	Dec-11			P			P			P			P			P			P		P			P	
HBW-7	Harrison Bayou Water	9/11-dry	Dec-11			P			P			P			P			P			P		P			P	
HBW-10	Harrison Bayou Water	9/11-dry	Dec-11			P			P			P			P			P			P		P			P	
GPW-1	Goose Prairie Creek Water	9/11-dry	Dec-11			P			P			P			P			P			P		P			P	
GPW-3	Goose Prairie Creek Water	9/11-dry	Dec-11			P			P			P			P			P			P		P			P	

Notes & abbreviations:
* - Two weeks prior to next sampling event, TCEQ & EPA will be notified of the tentative date. If TCEQ or EPA would like to be onsite, a couple of days priot to sampling, TCEQ & EPA will contacted with a more firm date & time.
TBD - to be determined after remedial design of final remedy
EW- Extraction well
ICT- Interceptor collection trench
NE- northwest
NW- northwest
SW- southwest
CT- Collection trench
SAN- Sample as needed
MNA - MNA parameters (see list below)
VOC - volatile organic compounds (Method 8260)
TM- TM
P- Perchlorate
SVOCs

MNA parameters:
nitrates
nitrites
sulfates
pH
Eh (redox potential)
conductivity
temperature
dissolved oxygen (DO)
ferrous iron (HACH meter in field)
Cl- Chloride
methane
ethane
ethene
inorganic & organic carbon
Dehalococcoides

LONGHORN ARMY AMMUNITION PLANT
Karnack, Texas

MONTHLY MANAGERS' MEETING

AGENDA

DATE: Tuesday, December 20, 2011
TIME: 10:00 a.m.
PLACE: Teleconference. Call In Number Courtesy of
 Shaw: 866-692-4538 / 2372062

Welcome

RMZ

Action Items

EPA

- Forward perchlorate waste information on to Army
- Review/approve Final Installation-Wide Work Plan

TCEQ

- Review/approve Final Installation-Wide Work Plan.
-

Shaw

- Forward master sampling schedule.

Defense Environmental Restoration Program (DERP) PBC Update

KE

- Document Status/Environmental Sites (Table)
- Groundwater Treatment Plant

PROGRAMMATIC ISSUES – Dispute

EPA, TCEQ, Army

DERP Total Environmental Restoration Contract Update

Army

- LHAAP-37 Well Installation
- Pilot Demonstration at LHAAP-37 Status
- ITS Impact

MMRP Update

Army

- Levels of perchlorate in groundwater
- Update IRP Metals Issue

USFWS Update

RMZ/PB

- Environmental Restoration Issues with Transfer Schedule Impact
- USFWS Comments on Documents

Adjourn

ACRONYM LIST

DERP-	Defense Environmental Restoration Program
EPA-	Environmental Protection Agency
FS-	Feasibility Study
IRP-	Installation Restoration Program
ITS-	Intertek Testing Services
LHAAP-	Longhorn Army Ammunition Plant
MMRP-	Military Munitions Response Program
MNA-	Monitored Natural Attenuation
PB-	Paul Bruckwicki
PBC-	Performance Based Contract
PS-	Praveen Srivastav
QA-	Quality Assurance
QC-	Quality Control
RMZ-	Rose M. Zeiler
RD-	Remedial Design
ROD-	Record of Decision
SAP-	Sampling and Analysis Plan
TCEQ-	Texas Commission on Environmental Quality
USFWS-	United States Fish and Wildlife Service



Subject: **Draft Final Minutes, Monthly Managers Meeting,
Longhorn Army Ammunition Plant (LHAAP)**

Location of Meeting: **Teleconference**

Date of Meeting: **December 20, 2011; 10:00 AM – 11:00 AM**

Meeting Participants:

BRAC: Rose M. Zeiler
USAEC: Marilyn Plitnik
USACE-Tulsa: Aaron Williams
Shaw: Kay Everett
USEPA Region 6: Steve Tzhone, Rich Mayer, Kent Becher
TCEQ: Fay Duke
USFWS: Barry Forsythe

Welcome

Rose M. Zeiler

Action Item Status

Army

- LHAAP-29 Trigger Memo. Army will provide information regarding trigger values and developed injection curve. Army to discuss issue further with EPA and TCEQ by telephone January 5, 2012, 10AM.

TCEQ

- Review LHAAP-18/24 soil sampling results. On hold. Aaron will re-send out link to access data.

EPA

- Review LHAAP-18/24 soil sampling results. On hold. Aaron will re-send out link to access data.

Shaw

- Address EPA and TCEQ comments on Installation-wide work plan. Carry forward as an Action Item for next meeting and in the meantime, Shaw will provide status.

Defense Environmental Restoration Program (DERP) PBC Update

Praveen Srivastav

Document Status/ Environmental Sites (Table)

- LHAAP-03: The draft EE/CA is in regulatory review
- LHAAP-04: Draft Feasibility Study is in regulatory review.
- LHAAP-12 RA(O) Years 1 and 2: RTCs submitted to regulators for review.
- LHAAP-12 RA(O) Years 3 and 4: Draft is in regulatory review as of 12/8/11.

Groundwater Treatment Plant

The GWTP is functioning normally. Typical maintenance activities conducted. The treated effluent water is being discharged to the burning ground (via sprinkler system) and injected in ICTs.

DERP Total Environmental Restoration Contract Update**Army***LHAAP-37 Demonstration Project*

The contract will be awarded either today or this week for well installation. The pilot demonstration is on schedule.

MMRP Update**Army***Update IRP Metals Issue*

TCEQ asked about the ECO issue status. The Army indicated that the evaluation is ongoing with Shaw's ECO risk assessors looking at the historical site operations and available data found in relation to historical subarea location boundaries. This is a critical path issue and Army expects to get comments back to regulators in early January with a path forward on this issue.

Programmatic*Status of Dispute*

- The intention of the informal/formal meeting in Dallas was to resolve some of the straight forward comments from EPA/TCEQ on LHAAP-16,17 and MMRP RODs before they were raised to a higher level. The meeting outcome ended positively as many disputes were resolved and a few of the more difficult may be raised to a higher level. These issues are mostly related to land use controls and checklist.

Notification to RAB

- The Army indicated that notification to RAB is not required by the FFA.

USFWS Update*Environmental Restoration Issues with Transfer Schedule Impact.*

Nothing was discussed.

USFWS Comments on Documents.

Nothing was discussed.

Other*Update on Phytoforensics Study*

EPA conducted a reconnaissance in the areas concerned with USACE Tyler Jones. At Army's invitation to USFWS, Forester John Stephens and Paul Bruckwicki attended. The group looked at trees and found plenty to sample at sites 16, 17, 18, and 24. EPA will complete a technical directive memo to the contractor and will be providing the QAPP and Health and Safety Plan to Army for review and comment before they go into the field. The work plan will be incorporated in the QAPP. Army indicated they need some information from EPA to comply with NEPA regulations. They indicated this would probably fall under a categorical exclusion. Steve responded that he would supply the information.

Field work is expected to begin in April. USFWS expressed no concerns over coring the trees. Another contractor, Beacon Environmental Technical, is interested doing a correlative study using soil vapor gas tubes. They would like to put these tubes in the tree after coring, and place several around the base of the tree within the root network. This is something that can be discussed at a later date, but will also require Army approval.

Meeting Adjourned

Action Items

- None



**Status of Sites and Technical Documents
Longhorn Army Ammunition Plant – PBC Contract
December 20, 2011**

No.	Document in Progress	Submittal Date	Army	Regulator	Next Submittal	Expected Date	Army	Regulator	Comment Resolution	Status	Remarks
1	Preliminary Draft EE/CA, LHAAP-03	9/29/11	x		Draft	1/15/11	x	x		Army comments received 12/6/11. RTCs in preparation	
2	Draft Feasibility Study, LHAAP-04	11/03/11	x	x	Final	01/30/11	x	x		In regulatory review	
3	Draft LHAAP-12 RAO Report – Year 1 & 2	2/10/11	x	x	Final	01/30/12	x	x		RTCs in regulatory review	
4	Draft LHAAP-12 RAO Report – Year 3 & 4	12/8/11	x	x	Final	01/30/12	x	x		In regulatory review	

Master Groundwater Sampling Schedule
Longhorn Army Ammunition Plant

Updated: 11/03/11

				2011												2012											
		Last Date Sampled	Next Event*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
LHAAP-12																											
12MW20	on site - near well 24	6/7/11	Jun-12						VOCs												VOCs						
12WW21	on site - downgradient	6/7/11	Jun-12						VOCs												VOCs						
12WW22	compliance northeast	6/7/11	Jun-12						VOCs												VOCs						
12WW23	compliance - northwest	6/7/11	Jun-12						VOCs												VOCs						
12WW24	on site - near source	6/7/11	Jun-12						VOCs												VOCs						
LHAAP-16 (Interim Action)																											
EW-01	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-02	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-03	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-04	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-05	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-06	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-07	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
EW-08	NE, annual	2/16/11	Feb-12		VOCs,P												VOCs,P										
LHAAP-17																											
TBD																											
LHAAP-18/24 (Inteirm Action)																											
ICT-2	west, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-4	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-7	north, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-8	east, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-11	south, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12B	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12C	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12D	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12C	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
ICT-12E	SW, annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
EW-01	annual	2/21/11	Feb-12		VOCs,Cl,P												VOCs,Cl,P										
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18WW09	north, semi-annual	09/15/11	Mar-12			VOCs,Cl,P,TM						VOCs,Cl,P,TM					VOCs,Cl,P,TM					VOCs,Cl,P,TM					
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MW-3	inside CT perimeter	5/11/06	SAN																								
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Notes & abbreviations:
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SVOCs

MNA parameters:
nitrates
nitrites
sulfates
pH
Eh (redox potential)
conductivity
temperature
dissolved oxygen (DO)
ferrous iron (HACH meter in field)
Cl- Chloride
methane
ethane
ethene
inorganic & organic carbon
Dehalococcoides